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Structural sections - imperial

in accordance with ASTM specifications

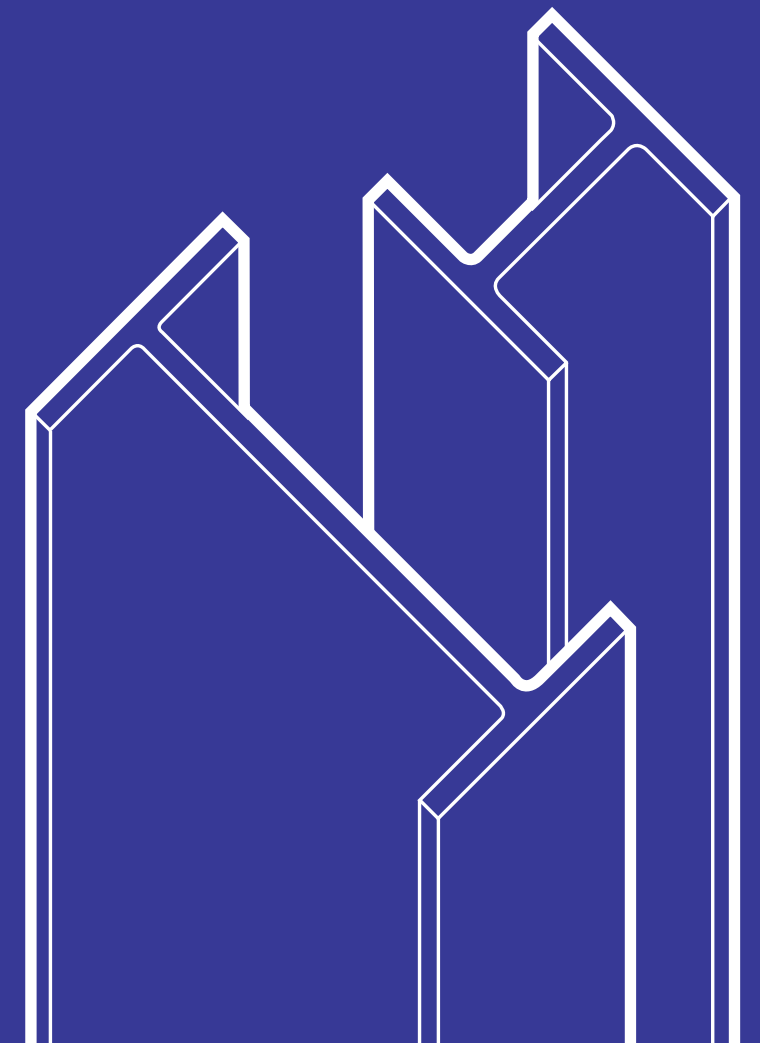
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Selling and marketing subsidiaries and offices for Corus Exports		24-26
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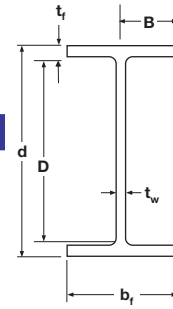
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W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by Structural Sections in accordance with BS4: Part 1



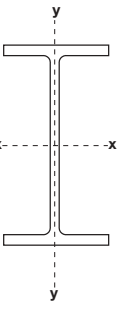
Designation	Mass	Serial size	Mass	Depth of Section	Width of Section	Thickness of Web	Thickness of Flange	Ratios for Local Buckling		Second Moment of Area	
in	per foot	mm	per metre	d	b _f	t _w	t _f	B/t _f	D/t _w	xx	yy
	lb		kg	in	in	in	in			in ⁴	in ⁴
W40 x 12	327	1016 x 305	487	40.79	12.15	1.18	2.13	2.85	28.90	24539.24	641.95
W40 x 12	294	1016 x 305	438	40.39	12.02	1.06	1.93	3.12	32.30	21860.44	563.39
W40 x 12	264	1016 x 305	393	40.00	11.93	0.96	1.73	3.45	35.60	19405.07	492.51
W40 x 12	235	1016 x 305	350	39.69	11.89	0.83	1.57	3.77	41.10	17372.55	443.50
W40 x 12	211	1016 x 305	314	39.37	11.81	0.75	1.41	4.18	45.50	15476.97	389.93
W40 x 12	183	1016 x 305	272	38.98	11.81	0.65	1.22	4.84	52.60	13309.90	336.35
W40 x 12	167	1016 x 305	249	38.59	11.81	0.65	1.02	5.77	52.60	11563.28	282.29
W40 x 12	149	1016 x 305	222	38.20	11.81	0.63	0.83	7.11	54.30	9802.24	229.34
W36 x 16 ^{1/2}	359	914 x 420	534	37.40	16.73	1.12	2.01	4.16	28.20	24777.08	1575.09
W36 x 16 ^{1/2}	328	914 x 420	488	37.09	16.61	1.02	1.85	4.49	30.90	22475.48	1417.72
W36 x 16 ^{1/2}	300	914 x 420	446	36.74	16.65	0.94	1.68	4.95	33.30	20356.47	1296.87
W36 x 16 ^{1/2}	280	914 x 420	417	36.52	16.59	0.89	1.57	5.28	35.50	18886.13	1198.61
W36 x 16 ^{1/2}	260	914 x 420	387	36.26	16.55	0.84	1.44	5.74	37.50	17274.05	1090.98
W36 x 16 ^{1/2}	245	914 x 420	365	36.08	16.51	0.80	1.35	6.11	39.40	16140.06	1014.82
W36 x 16 ^{1/2}	230	914 x 420	342	35.90	16.47	0.76	1.26	6.54	41.40	15020.49	939.38
W36 x 12	387	914 x 305	576	39.09	12.67	1.42	2.56	2.48	22.80	26451.63	875.96
W36 x 12	350	914 x 305	521	38.61	12.55	1.30	2.32	2.71	24.90	23575.83	770.73
W36 x 12	318	914 x 305	473	38.22	12.43	1.18	2.13	2.92	27.50	21240.59	686.64
W36 x 12	286	914 x 305	426	37.83	12.31	1.06	1.93	3.19	30.60	18922.17	604.23
W36 x 12	256	914 x 305	381	37.43	12.22	0.96	1.73	3.53	33.70	16755.10	527.83
W36 x 12	232	914 x 305	345	37.12	12.12	0.87	1.57	3.86	37.20	15032.50	468.01
W36 x 12	210	914 x 305	313	36.69	12.18	0.83	1.36	4.48	39.00	13196.99	411.07
W36 x 12	194	914 x 305	289	36.49	12.11	0.76	1.26	4.81	42.40	12118.26	374.79
W36 x 12	182	914 x 305	271	36.33	12.07	0.72	1.18	5.11	44.70	11330.24	347.88
W36 x 12	170	914 x 305	253	36.17	12.03	0.68	1.10	5.48	47.60	10506.18	319.77
W36 x 12	160	914 x 305	238	36.01	12.00	0.65	1.02	5.88	49.90	9766.20	294.55
W36 x 12	150	914 x 305	223	35.85	11.98	0.63	0.94	6.36	51.70	9062.27	270.28
W36 x 12	135	914 x 305	201	35.55	11.95	0.60	0.79	7.55	54.10	7817.77	225.74
W33 x 15 ^{3/4}	387	838 x 400	576	35.94	16.18	1.26	2.28	3.55	23.70	2443.35	1615.21
W33 x 15 ^{3/4}	354	838 x 400	526	35.55	16.10	1.16	2.09	3.85	25.70	21958.94	1459.04
W33 x 15 ^{3/4}	318	838 x 400	473	35.16	15.98	1.04	1.89	4.23	28.70	19510.78	1289.43
W33 x 15 ^{3/4}	291	838 x 400	433	34.84	15.91	0.96	1.73	4.60	31.00	17689.68	1161.61
W33 x 15 ^{3/4}	263	838 x 400	391	34.53	15.79	0.87	1.57	5.03	34.30	15849.36	1032.12
W33 x 15 ^{3/4}	241	838 x 400	359	34.18	15.86	0.83	1.40	5.66	35.90	14215.65	933.38
W33 x 15 ^{3/4}	221	838 x 400	329	33.93	15.80	0.78	1.28	6.19	38.40	12877.45	840.40
W33 x 15 ^{3/4}	201	838 x 400	299	33.68	15.74	0.72	1.15	6.85	41.60	11553.67	748.86

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



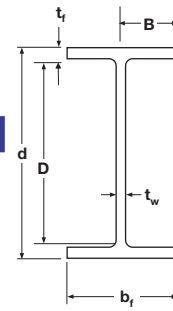
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling	Torsional	Warping Constant	Torsional	Designation
xx	yy	xx	yy	xx	yy	u	x	H	J	Serial Size
in	in	in	in	in	in			in ⁶	in ⁴	in
15.98	2.59	1203.39	105.69	1415.75	170.87	0.87	21.10	239814649179354000.00	103.28	327
15.91	2.56	1082.56	93.67	1266.85	150.67	0.87	23.10	208162094551644000.00	76.52	294
15.83	2.52	970.28	82.57	1131.38	132.30	0.87	25.50	180233369880136000.00	55.98	264
15.87	2.54	875.69	74.63	1012.38	118.45	0.87	27.90	161241837103510000.00	41.28	235
15.79	2.51	785.99	66.03	906.20	104.53	0.87	30.70	140388389348783000.00	30.37	211
15.75	2.50	682.86	57.00	782.93	89.70	0.87	35.00	119907324589677000.00	20.06	183
15.35	2.40	599.31	47.84	692.62	75.97	0.86	39.90	99798642826190800.00	13.98	167
14.96	2.29	513.15	38.81	598.46	62.24	0.85	45.70	80062344058324700.00	9.37	149
15.31	3.87	1324.83	188.26	1515.22	292.67	0.89	19.70	491545554218552000.00	108.50	359
15.28	3.84	1211.93	170.68	1380.36	264.60	0.89	21.30	439411934831736000.00	84.06	328
15.20	3.83	1108.19	155.73	1257.70	241.10	0.89	23.30	398449805313523000.00	64.27	300
15.12	3.81	1034.35	144.44	1170.44	223.35	0.89	24.80	366052484694573000.00	52.64	280
15.04	3.78	952.58	131.81	1076.46	203.70	0.89	26.70	330676100110662000.00	41.54	260
14.96	3.75	894.61	122.96	1009.94	189.91	0.88	28.30	306098822399735000.00	34.64	245
14.92	3.73	836.64	114.05	943.43	176.11	0.88	30.20	281893927684427000.00	28.57	230
15.28	2.78	1354.12	138.28	1603.70	222.98	0.87	16.80	292320651561790000.00	171.78	387
15.16	2.74	1221.70	122.84	1440.16	197.41	0.87	18.40	253592820017298000.00	128.65	350
15.08	2.71	1111.85	110.45	1304.08	176.66	0.87	19.90	223429797372069000.00	98.65	318
15.00	2.68	1001.40	98.13	1167.38	156.16	0.87	21.80	194756306709320000.00	73.01	286
14.92	2.65	895.22	86.41	1039.84	137.18	0.87	24.10	168317114020292000.00	53.05	256
14.84	2.62	809.79	77.26	936.71	122.11	0.87	26.30	147836049261186000.00	39.79	232
14.61	2.58	719.47	67.49	832.97	106.97	0.87	29.70	128099750493320000.00	28.09	210
14.57	2.56	664.55	61.88	767.07	97.70	0.87	31.90	116183494633476000.00	22.30	194
14.53	2.55	623.66	57.61	719.47	90.86	0.87	33.80	107246302738593000.00	18.60	182
14.49	2.53	580.95	53.15	668.82	83.72	0.87	36.10	98309110843710400.00	15.14	170
14.41	2.50	542.38	49.12	624.27	77.26	0.86	38.50	90116684940067800.00	12.45	160
14.29	2.47	505.64	45.10	582.90	71.09	0.86	41.10	82296642032045400.00	10.23	150
14.02	2.38	439.86	37.77	510.22	59.80	0.85	46.70	68146088198481000.00	7.06	135
14.61	3.77	1352.29	199.61	1560.38	311.28	0.89	16.70	458031084612741000.00	148.19	387
14.53	3.74	1236.95	181.24	1420.63	281.99	0.89	18.10	409621295182127000.00	114.77	354
14.45	3.71	1111.24	161.35	1269.29	250.26	0.89	19.80	356742909804070000.00	84.35	318
14.37	3.68	1015.44	146.09	1155.18	226.22	0.89	21.50	318387461255198000.00	64.99	291
14.29	3.65	917.80	130.77	1039.84	202.05	0.89	23.50	280404395701947000.00	48.70	263
14.13	3.63	831.75	117.71	941.60	181.97	0.88	26.00	250613756052337000.00	36.28	241
14.06	3.59	759.14	106.36	857.38	164.28	0.88	28.30	224174563363309000.00	27.87	221
13.98	3.56	685.91	95.14	773.78	146.76	0.88	31.10	198107753669901000.00	20.81	201

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



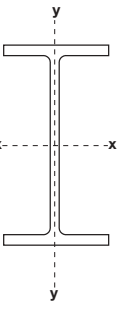
Designation		Serial Size	Mass per foot lb	Serial size mm	Mass per metre kg	Depth of Section d in	Width of Section b _f in	Thickness of Web t _w in	Thickness of Flange t _f in	Ratios for Local Buckling		Second Moment of Area	
Flange	Web									xx	yy		
B/t _f	D/t _w	in ⁴	in ⁴										
W33 x 11 ¹ / ₂	219	838 x 292	326	34.53	11.70	0.87	1.57	3.72	34.30	12363.32	421.40		
W33 x 11 ¹ / ₂	204	838 x 292	304	34.30	11.64	0.81	1.46	3.99	36.70	11390.30	385.60		
W33 x 11 ¹ / ₂	187	838 x 292	278	34.06	11.58	0.75	1.34	4.33	39.60	10366.83	347.64		
W33 x 11 ¹ / ₂	169	838 x 292	251	33.82	11.50	0.67	1.22	4.71	44.50	9312.13	310.40		
W33 x 11 ¹ / ₂	152	838 x 292	226	33.49	11.57	0.63	1.06	5.48	47.00	8180.55	272.93		
W33 x 11 ¹ / ₂	141	838 x 292	210	33.30	11.54	0.61	0.96	6.00	49.20	7486.22	246.50		
W33 x 11 ¹ / ₂	130	838 x 292	193	33.09	11.51	0.58	0.85	6.74	51.50	6729.43	217.86		
W33 x 11 ¹ / ₂	118	838 x 292	176	32.86	11.48	0.55	0.74	7.76	54.10	5931.80	187.20		
W30 x 15	326	762 x 381	485	32.40	15.35	1.14	2.05	3.74	23.40	16755.10	1241.38		
W30 x 15	292	762 x 381	435	32.01	15.24	1.02	1.85	4.12	26.20	14835.50	1093.62		
W30 x 15	261	762 x 381	388	31.61	15.16	0.93	1.65	4.59	28.80	13098.48	959.56		
W30 x 15	235	762 x 381	350	31.30	15.04	0.83	1.50	5.01	32.20	11697.82	851.93		
W30 x 15	211	762 x 381	314	30.94	15.11	0.78	1.31	5.74	34.50	10294.75	756.79		
W30 x 15	191	762 x 381	284	30.68	15.04	0.71	1.19	6.35	37.70	9201.61	672.94		
W30 x 15	173	762 x 381	257	30.44	14.98	0.65	1.07	7.02	40.90	8240.61	598.95		
W30 x 10 ¹ / ₂	148	762 x 267	220	30.67	10.48	0.65	1.18	4.44	41.20	6717.42	227.40		
W30 x 10 ¹ / ₂	132	762 x 267	196	30.31	10.54	0.61	1.00	5.27	43.50	5797.26	196.02		
W30 x 10 ¹ / ₂	124	762 x 267	185	30.17	10.52	0.59	0.93	5.66	45.60	5391.23	180.67		
W30 x 10 ¹ / ₂	116	762 x 267	173	30.01	10.50	0.57	0.85	6.17	47.20	4973.20	164.45		
W30 x 10 ¹ / ₂	108	762 x 267	161	29.83	10.49	0.54	0.76	6.90	49.20	4499.90	146.60		
W30 x 10 ¹ / ₂	99	762 x 267	147	29.65	10.44	0.52	0.67	7.80	51.40	4021.80	127.55		
W30 x 10 ¹ / ₂	90	762 x 267	134	29.53	10.40	0.47	0.61	8.52	57.10	3644.61	114.79		
W27 x 14	307	686 x 356	457	29.61	14.45	1.16	2.09	3.46	20.50	13096.08	1054.70		
W27 x 14	281	686 x 356	418	29.29	14.33	1.06	1.93	3.71	22.50	11866.00	948.99		
W27 x 14	258	686 x 356	384	28.98	14.25	0.98	1.77	4.02	24.30	10748.83	856.98		
W27 x 14	235	686 x 356	350	28.66	14.17	0.91	1.61	4.40	26.20	9691.73	765.92		
W27 x 14	217	686 x 356	323	28.43	14.13	0.83	1.50	4.71	28.70	8913.31	707.30		
W27 x 14	194	686 x 356	289	28.11	14.02	0.75	1.34	5.24	31.90	7836.99	615.28		
W27 x 14	178	686 x 356	265	27.81	14.09	0.72	1.19	5.92	32.90	7015.33	554.98		
W27 x 14	161	686 x 356	240	27.59	14.02	0.66	1.08	6.50	36.10	6308.99	496.12		
W27 x 14	146	686 x 356	217	27.38	13.96	0.61	0.98	7.15	39.30	5667.52	443.74		

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W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by Structural Sections in accordance with BS4: Part 1



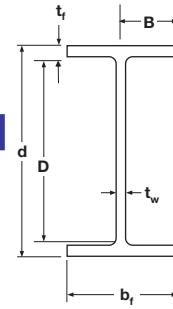
Radius of Gyration xx in	Axis yy in	Elastic Modulus xx in ³	Axis yy in ³	Plastic Modulus xx in ³	Axis yy in ³	Buckling Parameter u	Torsional Index x	Warping Constant H in ⁶	Torsional Constant J in ⁴	Mass per foot lb	Designation Serial Size in
13.78	2.54	663.94	66.27	766.46	104.47	0.87	26.00	103894855778012000.00	30.78	204	W33 x 11 ¹ / ₂
13.70	2.51	608.71	60.05	700.55	94.46	0.87	28.10	93095748905028800.00	23.93	187	W33 x 11 ¹ / ₂
13.70	2.50	550.68	53.94	630.38	84.52	0.88	30.70	82296642032045400.00	17.92	169	W33 x 11 ¹ / ₂
13.50	2.47	488.62	47.17	560.08	74.02	0.87	34.70	71869918154682200.00	12.54	152	W33 x 11 ¹ / ₂
13.39	2.43	449.56	42.72	515.83	67.07	0.87	37.50	64422258242279900.00	9.92	141	W33 x 11 ¹ / ₂
13.23	2.38	406.78	37.83	467.81	59.50	0.86	41.30	56602215334257500.00	7.50	130	W33 x 11 ¹ / ₂
13.03	2.32	360.96	32.59	416.85	51.38	0.86	46.00	48409789430615000.00	5.45	118	W33 x 11 ¹ / ₂
13.23	3.60	1036.18	161.71	1191.79	251.42	0.89	16.60	285990140636248000.00	102.83	326	W30 x 15
13.15	3.57	928.78	143.53	1061.81	222.49	0.89	18.20	248751841074237000.00	75.13	292	W30 x 15
13.07	3.54	828.70	126.62	942.82	195.95	0.89	20.20	215237371468426000.00	54.01	261	W30 x 15
12.99	3.51	747.54	113.32	845.79	174.83	0.89	22.10	189170561775018000.00	40.24	235	W30 x 15
12.87	3.49	665.16	100.20	751.20	154.57	0.89	24.80	166082816046571000.00	28.40	211	W30 x 15
12.80	3.46	599.80	89.46	674.92	137.85	0.89	27.30	146346517278705000.00	21.02	191	W30 x 15
12.72	3.43	541.34	79.94	607.98	123.08	0.88	30.00	12921689948018000.00	15.64	173	W30 x 15
12.40	2.28	438.03	43.39	502.59	68.10	0.88	28.60	49526938417475300.00	14.92	148	W30 x 10 ¹ / ₂
12.20	2.24	382.44	37.16	439.55	58.52	0.87	32.80	42079278505073000.00	9.99	132	W30 x 10 ¹ / ₂
12.13	2.22	357.42	34.36	410.69	54.07	0.87	34.90	38727831544492000.00	8.26	124	W30 x 10 ¹ / ₂
12.01	2.19	331.36	31.31	381.34	49.37	0.86	37.40	34966763288728800.00	6.68	116	W30 x 10 ¹ / ₂
11.89	2.15	301.70	27.95	347.96	44.12	0.86	40.80	30982265235593600.00	5.17	108	W30 x 10 ¹ / ₂
11.73	2.09	271.37	24.41	314.15	38.63	0.85	44.80	26774337385086300.00	3.92	99	W30 x 10 ¹ / ₂
11.73	2.08	246.78	22.09	284.86	34.78	0.86	48.80	23981464917935400.00	2.98	90	W30 x 10 ¹ / ₂
12.05	3.41	887.29	145.97	1025.81	227.19	0.89	14.70	199597285652382000.00	101.60	307	W27 x 14
12.01	3.39	812.84	132.42	934.27	205.59	0.89	15.80	177626688910795000.00	79.28	281	W27 x 14
11.93	3.36	744.49	120.28	851.89	186.37	0.89	17.10	158635156134169000.00	61.72	258	W27 x 14
11.81	3.32	676.14	108.07	771.34	167.33	0.89	18.60	140016006353163000.00	46.92	235	W27 x 14
11.81	3.32	627.32	100.08	711.54	154.51	0.89	19.90	12809975049332000.00	37.67	217	W27 x 14
11.73	3.28	557.70	87.81	629.76	135.35	0.89	22.10	110225366703554000.00	26.93	194	W27 x 14
11.57	3.25	504.54	78.78	569.72	121.56	0.89	24.40	98309110843710400.00	20.04	178	W27 x 14
11.50	3.23	457.31	70.79	514.61	109.05	0.89	26.70	87137620975106900.00	15.06	161	W27 x 14
11.46	3.20	414.05	63.53	464.63	97.82	0.88	29.20	77455663088983900.00	11.32	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



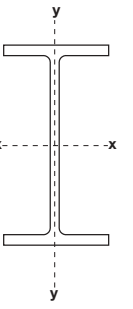
Designation				Depth of Section d in	Width of Section bf in	Thickness of Web tw in	Thickness of Flange tf in	Ratios for		Second Movement	
Serial Size in	Mass per foot lb	Serial size mm	Mass per metre kg					Local Buckling Flange	Web	Axis xx	Axis yy
								B/tf	D/tw	in ⁴	in ⁴
W27 x 10	221	686 x 254	329	29.13	10.43	1.02	1.85	2.82	23.40	8670.66	351.97
W27 x 10	201	686 x 254	299	28.82	10.35	0.94	1.69	3.06	25.40	7815.36	313.77
W27 x 10	182	686 x 254	271	28.50	10.24	0.85	1.54	3.33	28.00	6984.10	277.25
W27 x 10	159	686 x 254	237	28.11	10.15	0.75	1.34	3.79	31.70	5987.05	234.34
W27 x 10	129	686 x 254	192	27.63	10.01	0.61	1.10	4.56	39.10	4793.01	184.34
W27 x 10	114	686 x 254	170	27.29	10.07	0.57	0.93	5.42	41.80	4120.30	158.69
W27 x 10	102	686 x 254	152	27.09	10.02	0.52	0.83	6.03	46.30	3659.02	139.51
W27 x 10	94	686 x 254	140	26.92	9.99	0.49	0.74	6.71	48.90	3301.05	123.92
W27 x 10	84	686 x 254	125	26.71	9.96	0.46	0.64	7.76	51.80	2887.82	106.00
W24 x 12 ^{3/4}	306	610 x 324	455	27.13	13.39	1.26	2.28	2.94	16.70	10717.60	915.36
W24 x 12 ^{3/4}	279	610 x 324	415	26.73	13.31	1.16	2.09	3.18	18.10	9641.27	824.30
W24 x 12 ^{3/4}	250	610 x 324	372	26.34	13.19	1.04	1.89	3.49	20.20	8524.11	725.08
W24 x 12 ^{3/4}	229	610 x 324	341	26.02	13.11	0.96	1.73	3.79	21.90	7683.23	651.08
W24 x 12 ^{3/4}	207	610 x 324	308	25.71	12.99	0.87	1.57	4.14	24.10	6851.96	575.64
W24 x 12 ^{3/4}	192	610 x 324	286	25.47	12.95	0.81	1.46	4.43	25.90	6301.78	530.23
W24 x 12 ^{3/4}	176	610 x 324	262	25.24	12.87	0.75	1.34	4.81	28.10	5708.36	476.90
W24 x 12 ^{3/4}	162	610 x 324	241	25.00	12.96	0.70	1.22	5.31	29.80	5215.85	443.26
W24 x 12 ^{3/4}	146	610 x 324	217	24.74	12.90	0.65	1.09	5.92	32.30	4624.83	390.89
W24 x 12 ^{3/4}	131	610 x 324	195	24.48	12.85	0.61	0.96	6.69	34.60	4062.64	340.68
W24 x 12 ^{3/4}	117	610 x 324	174	24.26	12.80	0.55	0.85	7.53	38.10	3577.34	297.67
W24 x 12 ^{3/4}	104	610 x 324	155	24.06	12.75	0.50	0.75	8.52	42.00	3137.68	258.75
UB24 x 12	160	610 x 305	238	25.03	12.26	0.72	1.24	4.96	29.30	5045.27	379.60
UB24 x 12	120	610 x 305	179	24.42	12.09	0.56	0.93	6.51	38.30	3675.84	273.89
UB24 x 12	100	610 x 305	149	24.11	12.00	0.46	0.78	7.74	45.80	3027.16	223.67
W24 x 9	198	610 x 305	295	26.26	9.47	1.02	1.85	2.56	20.60	6270.55	264.04
W24 x 9	163	610 x 305	243	25.63	9.29	0.85	1.54	3.02	24.70	5033.26	206.88
W24 x 9	146	610 x 305	190	25.00	9.11	0.67	1.22	3.75	31.40	3846.42	154.22
W24 x 9	128	610 x 305	217	25.32	9.22	0.77	1.38	3.33	27.20	4456.66	181.37
W24 x 9	114	610 x 305	170	24.76	9.05	0.61	1.10	4.12	34.40	3435.59	136.32
W24 x 9	103	610 x 305	153	24.53	9.00	0.55	0.98	4.59	38.10	3041.58	119.55
W24 x 9	94	610 x 305	140	24.31	9.07	0.52	0.87	5.19	40.70	2736.46	108.95
W24 x 9	84	610 x 305	125	24.10	9.02	0.47	0.77	5.84	44.80	2407.31	94.66
W24 x 9	76	610 x 305	113	23.92	8.99	0.44	0.68	6.60	47.60	2141.12	82.69
W24 x 9	68	610 x 305	101	23.73	8.96	0.41	0.59	7.64	50.80	1869.39	70.66

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



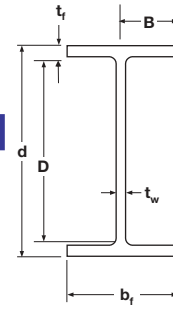
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H in ⁶	Torsional Constant J in ⁴	Mass per foot lb	Designation Serial Size in
Axis xx in	Axis yy in	Axis xx in ³	Axis yy in ³	Axis xx in ³	Axis yy in ³						
11.54	2.33	595.23	67.49	697.50	107.52	0.88	17.00	65539407229140200.00	53.79	221	W27 x 10
11.46	2.30	542.32	60.66	632.82	96.36	0.88	18.40	57719364321117800.00	41.30	201	W27 x 10
11.42	2.27	490.20	54.13	569.23	85.68	0.88	20.00	50271704408715500.00	31.11	182	W27 x 10
11.30	2.24	426.01	46.19	491.97	72.86	0.88	22.70	42079278505073000.00	20.81	159	W27 x 10
11.22	2.20	346.92	36.80	397.14	57.67	0.88	27.30	32434558918512000.00	11.53	129	W27 x 10
11.06	2.17	301.88	31.49	345.64	49.43	0.87	31.30	27556341675888500.00	7.66	114	W27 x 10
10.98	2.15	270.21	27.89	308.54	43.57	0.87	34.60	24055941517059400.00	5.57	102	W27 x 10
10.91	2.11	245.19	24.84	280.16	38.87	0.87	37.90	21225830750346600.00	4.25	94	W27 x 10
10.75	2.06	216.15	21.30	247.76	33.38	0.86	42.50	18023336988013600.00	3.03	84	W27 x 10
10.91	3.19	790.26	136.75	924.51	213.58	0.89	12.20	141133155340024000.00	120.22	306	W24 x 12 ^{3/4}
10.83	3.17	721.30	123.88	839.08	193.08	0.89	13.10	125120686528359000.00	93.15	279	W24 x 12 ^{3/4}
10.75	3.13	647.46	109.96	747.54	170.81	0.89	14.40	108363451725453000.00	68.47	250	W24 x 12 ^{3/4}
10.67	3.11	590.59	99.29	678.58	154.08	0.89	15.60	96074812869989700.00	52.76	229	W24 x 12 ^{3/4}
10.59	3.07	533.10	88.61	609.32	137.18	0.89	17.00	83786174014525900.00	39.55	207	W24 x 12 ^{3/4}
10.55	3.06	494.78	81.89	563.31	126.56	0.89	18.10	76338514102123600.00	31.93	192	W24 x 12 ^{3/4}
10.47	3.03	452.31	74.08	512.90	114.36	0.89	19.60	68146088198481000.00	24.70	176	W24 x 12 ^{3/4}
10.43	3.04	417.16	68.41	471.59	105.51	0.89	21.20	62560343264179300.00	19.27	162	W24 x 12 ^{3/4}
10.31	3.00	373.83	60.60	421.31	93.43	0.89	23.50	54740300356156900.00	14.08	146	W24 x 12 ^{3/4}
10.24	2.96	331.91	52.97	373.47	81.71	0.88	26.20	46920257448134500.00	10.04	131	W24 x 12 ^{3/4}
10.16	2.93	294.87	46.50	330.81	71.58	0.88	29.20	40589746522592500.00	7.16	117	W24 x 12 ^{3/4}
10.08	2.89	260.75	40.58	291.94	62.43	0.88	32.70	35152954786538900.00	5.02	104	W24 x 12 ^{3/4}
10.35	2.85	402.15	62.24	457.07	95.81	0.89	21.30	53995534364916700.00	18.86	160	UB24 x 12
10.20	2.78	301.46	45.34	338.68	69.57	0.89	27.70	37983065553251700.00	8.17	120	UB24 x 12
10.12	2.76	250.81	37.29	280.10	57.18	0.89	32.70	30423690742163400.00	4.81	100	UB24 x 12
10.35	2.12	477.57	55.78	563.31	89.16	0.88	15.10	39472597535732200.00	48.75	198	W24 x 9
10.20	2.07	392.69	44.55	458.47	70.79	0.88	17.80	30014069446981300.00	28.21	163	W24 x 9
10.08	2.02	307.62	33.87	354.85	53.33	0.88	22.10	21821643543338700.00	14.03	146	W24 x 9
10.12	2.04	352.05	39.36	408.92	62.37	0.88	19.60	25992333094284000.00	20.66	128	W24 x 9
10.04	2.00	277.47	30.15	318.85	47.35	0.88	24.20	19066009375749900.00	10.47	114	W24 x 9
9.96	1.98	248.00	26.55	283.88	41.68	0.88	26.80	16571043305095100.00	7.57	103	W24 x 9
9.88	1.97	225.18	24.04	257.28	37.65	0.88	29.50	14969796423928600.00	5.67	94	W24 x 9
9.80	1.94	199.85	20.99	227.86	32.83	0.88	32.80	12884451648456000.00	4.04	84	W24 x 9
9.72	1.91	179.04	18.37	204.31	28.80	0.87	36.30	11171489868603400.00	2.98	76	W24 x 9
9.57	1.86	157.56	15.74	180.20	24.71	0.87	40.70	9458528088750920.00	2.11	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



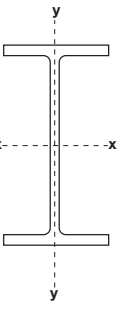
Designation	Mass	Serial	Mass per	Depth	Width	Thickness	Thickness	Ratios for		Second	
Serial Size	per foot	size	metre	of Section	of Section	of Web	of Flange	Local Buckling	Web	Movement of	
in	lb	mm	kg	d	b _f	t _w	t _f	Flange	D/t _w	Axis	Axis
				in	in	in	in	B/t _f		xx	yy
										in ⁴	in ⁴
W24 x 7	62	610 x 178	92	23.74	7.04	0.43	0.59	5.96	48.90	1590.22	34.57
W24 x 7	55	610 x 178	82	23.57	7.00	0.39	0.50	6.95	53.30	1381.68	29.05
W21 x 12 ¹ / ₄	275	533 x 312	409	24.13	12.87	1.22	2.19	2.94	15.40	7613.55	781.54
W21 x 12 ¹ / ₄	248	533 x 312	369	23.74	12.76	1.03	1.99	3.21	18.20	6700.60	689.76
W21 x 12 ¹ / ₄	223	533 x 312	332	23.35	12.68	1.00	1.79	3.54	18.80	5951.02	610.00
W21 x 12 ¹ / ₄	201	533 x 312	299	23.03	12.56	0.91	1.63	3.85	20.60	5302.34	539.36
W21 x 12 ¹ / ₄	182	533 x 312	271	22.72	12.48	0.83	1.48	4.22	22.60	4725.74	480.50
W21 x 12 ¹ / ₄	166	533 x 312	247	22.48	12.42	0.75	1.36	4.57	25.10	4269.26	434.61
W21 x 12 ¹ / ₄	147	533 x 312	219	22.06	12.51	0.72	1.15	5.44	26.00	3630.19	375.99
W21 x 12 ¹ / ₄	132	533 x 312	196	21.83	12.44	0.65	1.04	6.01	28.90	3226.57	332.75
W21 x 12 ¹ / ₄	122	533 x 312	182	21.68	12.39	0.60	0.96	6.45	31.30	2962.29	304.88
W21 x 12 ¹ / ₄	111	533 x 312	165	21.51	12.34	0.55	0.87	7.06	34.00	2673.99	273.89
W21 x 12 ¹ / ₄	101	533 x 312	150	21.36	12.29	0.50	0.80	7.69	37.50	2419.33	247.70
W21 x 8 ¹ / ₄	93	533 x 210	138	21.62	8.42	0.58	0.93	4.53	32.40	2068.32	92.83
W21 x 8 ¹ / ₄	83	533 x 210	123	21.43	8.35	0.52	0.83	5.00	36.40	1831.67	81.37
W21 x 8 ¹ / ₄	73	533 x 210	109	21.24	8.30	0.46	0.74	5.60	41.10	1604.88	70.61
W21 x 8 ¹ / ₄	68	533 x 210	101	21.13	8.27	0.43	0.69	6.04	43.70	1481.15	64.77
W21 x 8 ¹ / ₄	62	533 x 210	92	20.99	8.24	0.40	0.61	6.71	46.70	1329.31	57.40
UB21 x 8 ¹ / ₄	55	533 x 210	82	20.80	8.22	0.38	0.52	7.91	49.60	1141.19	48.29
W21 x 6 ¹ / ₂	57	533 x 165	85	21.06	6.56	0.41	0.65	5.05	46.30	1168.34	30.63
W21 x 6 ¹ / ₂	50	533 x 165	74	20.83	6.53	0.38	0.54	6.10	49.10	986.47	24.99
W21 x 6 ¹ / ₂	44	533 x 165	65	20.66	6.50	0.35	0.45	7.24	53.60	841.84	20.64
W18 x 7 ¹ / ₂	71	457 x 191	106	18.47	7.63	0.50	0.81	4.71	31.90	1178.43	60.33
W18 x 7 ¹ / ₂	65	457 x 191	97	18.36	7.59	0.45	0.75	5.07	35.40	1075.60	54.68
W18 x 7 ¹ / ₂	60	457 x 191	89	18.24	7.56	0.41	0.70	5.42	38.30	989.59	50.21
W18 x 7 ¹ / ₂	55	457 x 191	82	18.11	7.53	0.39	0.63	5.98	40.70	895.42	44.95
W18 x 7 ¹ / ₂	50	457 x 191	74	17.99	7.50	0.35	0.57	6.57	44.70	805.80	40.17
UB18 x 7 ¹ / ₂	45	457 x 191	67	17.85	7.48	0.33	0.50	7.48	48.00	706.34	34.84
W18 x 6	46	457 x 152	68	18.06	6.06	0.36	0.61	5.00	44.20	717.39	22.56
W18 x 6	40	457 x 152	60	17.90	6.02	0.31	0.52	5.74	50.30	616.24	19.05
W18 x 6	35	457 x 152	52	17.70	6.00	0.30	0.43	7.06	53.00	514.86	15.35
W16 x 7	57	406 x 178	85	16.43	7.12	0.43	0.72	4.97	32.80	760.15	43.20
W16 x 7	50	406 x 178	74	16.26	7.07	0.38	0.63	5.61	36.90	661.41	37.19
W16 x 7	45	406 x 178	67	16.13	7.04	0.35	0.57	6.20	40.70	590.30	32.96
W16 x 7	40	406 x 178	60	16.01	7.00	0.30	0.50	6.94	46.50	518.94	28.81
W16 x 7	36	406 x 178	54	15.86	6.98	0.30	0.43	8.14	47.70	449.51	24.41
W16 x 5 ¹ / ₂	31	406 x 140	46	15.88	5.52	0.28	0.44	6.32	50.80	377.43	12.32
W16 x 5 ¹ / ₂	26	406 x 140	39	15.69	5.50	0.25	0.35	7.94	55.50	306.80	9.63

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W SHAPES in accordance with ASTM A6/A6M

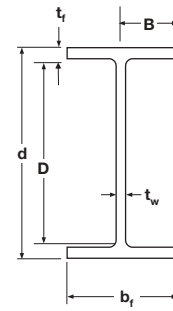
Dimensions and Properties

Supplemented by Structural Sections in accordance with BS4: Part 1



Radius of Gyration	Elastic Modulus	Plastic Modulus	Buckling	Torsional	Warping	Torsional	Mass	Designation			
Axis	Axis	Axis	Parameter	Index	Constant	Constant	per	Serial Size			
xx	yy	xx	u	x	H	J	foot	in			
in	in	in ³			in ⁶	in ⁴	lb				
9.25	1.37	134.01	9.82	156.77	15.87	0.85	40.40	4617549145689430.00	1.95	62	W24 x 7
9.17	1.33	117.23	8.30	137.43	13.43	0.85	45.30	3872783154449200.00	1.37	55	W24 x 7
9.72	3.11	630.99	121.44	739.61	188.93	0.89	11.20	94212897891889100.00	99.25	275	W21 x 12 ¹ / ₄
9.69	3.11	564.47	108.13	654.17	167.14	0.89	12.30	81551876040805200.00	71.98	248	W21 x 12 ¹ / ₄
9.53	3.06	509.85	96.23	589.25	149.02	0.89	13.40	70752769167821800.00	54.37	223	W21 x 12 ¹ / ₄
9.49	3.02	460.55	85.92	529.08	132.73	0.89	14.60	61815577272939100.00	40.84	201	W21 x 12 ¹ / ₄
9.41	3.00	416.18	77.01	475.50	118.81	0.89	15.90	54367917360536800.00	30.68	182	W21 x 12 ¹ / ₄
9.37	2.98	379.93	69.99	431.50	107.65	0.89	17.20	48409789430615000.00	23.52	166	W21 x 12 ¹ / ₄
9.17	2.95	329.22	60.11	373.16	92.63	0.88	19.80	40962129518212600.00	15.42	147	W21 x 12 ¹ / ₄
9.13	2.93	295.54	53.52	333.37	82.32	0.88	21.80	35972197376903100.00	11.29	132	W21 x 12 ¹ / ₄
9.09	2.92	273.26	49.25	307.13	75.61	0.89	23.40	32732465315008100.00	8.99	122	W21 x 12 ¹ / ₄
9.06	2.89	248.49	44.43	278.45	68.10	0.89	25.60	29157588557055000.00	6.82	111	W21 x 12 ¹ / ₄
9.02	2.89	226.52	40.28	252.88	61.70	0.89	27.80	26178524592094100.00	5.19	101	W21 x 12 ¹ / ₄
8.70	1.84	191.37	22.03	220.48	34.66	0.87	25.00	9942625983057070.00	6.01	93	W21 x 8 ¹ / ₄
8.66	1.83	170.93	19.47	196.07	30.51	0.87	27.60	8639285498386670.00	4.35	83	W21 x 8 ¹ / ₄
8.62	1.81	151.09	17.03	172.51	26.55	0.88	30.90	7410421612840290.00	3.03	73	W21 x 8 ¹ / ₄
8.58	1.80	140.17	15.68	159.82	24.41	0.87	33.10	6777370520286090.00	2.45	68	W21 x 8 ¹ / ₄
8.54	1.77	126.69	13.91	144.38	21.72	0.87	36.40	5958127929921840.00	1.83	62	W21 x 8 ¹ / ₄
8.39	1.72	109.84	11.72	125.71	18.31	0.86	41.60	4952693841747530.00	1.24	55	UB21 x 8 ¹ / ₄
8.35	1.35	110.94	9.34	128.58	14.83	0.86	35.50	3191322272464390.00	1.77	57	W21 x 6 ¹ / ₂
8.19	1.30	94.71	7.63	110.33	12.20	0.85	41.10	2573166499734990.00	1.15	50	W21 x 6 ¹ / ₂
8.07	1.26	81.53	6.35	95.26	10.13	0.85	47.00	2107687755209850.00	0.77	44	W21 x 6 ¹ / ₂
7.48	1.70	127.60	15.81	146.27	24.71	0.88	24.20	4692025744813450.00	3.58	71	W18 x 7 ¹ / ₂
7.48	1.69	117.17	14.40	133.70	22.46	0.88	26.10	4245166150069310.00	2.79	65	W18 x 7 ¹ / ₂
7.48	1.69	108.56	13.30	123.45	20.69	0.88	27.90	3872783154449200.00	2.24	60	W18 x 7 ¹ / ₂
7.40	1.66	98.86	11.96	112.41	18.55	0.88	30.50	3433371219617460.00	1.72	55	W18 x 7 ¹ / ₂
7.40	1.65	89.58	10.74	101.48	16.66	0.88	33.40	3046092904172540.00	1.29	50	W18 x 7 ¹ / ₂
7.28	1.62	79.33	9.34	89.70	14.46	0.87	37.90	2625300119121810.00	0.89	45	UB18 x 7 ¹ / ₂
7.24	1.29	79.45	7.44	91.29	11.72	0.87	32.30	1716685609808730.00	1.27	46	W18 x 6
7.20	1.27	68.83	6.35	78.90	9.95	0.87	36.90	1437398363093640.00	0.84	40	W18 x 6
7.05	1.22	58.16	5.12	67.13	8.12	0.86	43.10	1146939626509950.00	0.53	35	W18 x 6
6.73	1.60	92.57	12.14	105.57	18.92	0.88	24.30	2666262248640020.00	2.26	57	W16 x 7
6.69	1.59	81.34	10.50	92.39	16.35	0.88	27.30	2271536273282700.00	1.55	50	W16 x 7
6.65	1.57	73.17	9.40	82.87	14.52	0.88	30.10	1995972856523820.00	1.15	45	W16 x 7
6.65	1.56	64.81	8.24	73.05	12.69	0.88	33.60	1731580929633530.00	0.80	40	W16 x 7
6.50	1.52	56.69	7.02	64.14	10.86	0.87	38.10	1452293682918450.00	0.56	36	W16 x 7
6.42	1.16	47.54	4.46	54.37	7.02	0.87	38.10	733594501371627.00	0.48	31	W16 x 5 ¹ / ₂
6.26	1.11	39.12	3.50	44.97	5.53	0.86	45.30	566022153342575.00	0.29	26	W16 x 5 ¹ / ₂

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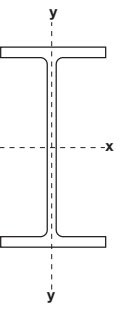
W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by Structural Sections in accordance with BS4: Part 1

Designation				Depth of Section d in	Width of Section b _f in	Thickness of Web t _w in	Thickness of Flange t _f in	Ratios for		Second Movement	
Serial Size in	Mass per foot lb	Serial size mm	Mass per metre kg					Local Buckling Flange B/t _f	Web D/t _w	Axis xx in ⁴	Axis yy in ⁴
W14 x 16	730	356 x 406	1086	22.42	17.89	3.07	4.92	1.82	3.58	14359.80	4728.14
W14 x 16	665	356 x 406	990	21.64	17.65	2.83	4.53	1.95	3.89	12466.62	4173.16
W14 x 16	605	356 x 406	900	20.92	17.41	2.59	4.17	2.09	4.24	10852.14	3692.66
W14 x 16	550	356 x 406	818	20.24	17.20	2.38	3.82	2.25	4.63	9434.66	3255.40
W14 x 16	500	356 x 406	744	19.60	17.01	2.19	3.50	2.43	5.04	8221.01	2883.01
W14 x 16	455	356 x 406	677	19.02	16.83	2.02	3.21	2.62	5.47	7200.32	2561.08
W14 x 16	426	356 x 406	634	18.67	16.70	1.87	3.04	2.75	5.88	6604.50	2362.39
W14 x 16	398	356 x 406	592	18.29	16.59	1.77	2.85	2.91	6.22	6011.08	2172.83
W14 x 16	370	356 x 406	551	17.92	16.47	1.65	2.66	3.09	6.67	5451.30	1987.84
W14 x 16	342	356 x 406	509	17.54	16.36	1.54	2.47	3.31	7.16	4903.52	1805.25
W14 x 16	311	356 x 406	463	17.19	16.23	1.41	2.26	3.59	7.87	4377.37	1613.05
W14 x 16	283	356 x 406	421	16.74	16.11	1.29	2.07	3.89	8.54	3848.82	1445.83
UC14 x 16	264	356 x 406	393	17.19	16.23	1.41	2.28	3.55	8.11	4396.59	1628.90
W14 x 16	257	356 x 406	382	16.38	16.00	1.17	1.89	4.23	9.40	3409.16	1291.11
W14 x 16	233	356 x 406	347	16.04	15.89	1.07	1.72	4.62	10.30	3015.15	1152.00
UC14 x 16	228	356 x 406	339	16.50	16.02	1.20	1.94	4.14	9.48	3531.69	1330.99
W14 x 16	211	356 x 406	314	15.72	15.80	0.98	1.56	5.08	11.30	2659.58	1023.47
W14 x 16	193	356 x 406	287	15.48	15.71	0.89	1.44	5.47	12.40	2402.27	929.29
W14 x 16	176	356 x 406	262	15.22	15.65	0.83	1.31	5.97	13.30	2149.05	838.24
W14 x 16	159	356 x 406	237	14.98	15.57	0.74	1.19	6.55	14.80	1907.59	748.14
UC14 x 16	145	356 x 406	340	16.00	15.87	1.05	1.69	4.70	10.90	2955.09	1126.78
W14 x 16	145	356 x 368	216	14.78	15.50	0.68	1.09	7.11	16.20	1720.68	677.27
UC14 x 14 1/2	136	356 x 368	202	14.75	14.75	0.65	1.06	6.94	17.60	1592.86	569.39
W14 x 14 1/2	132	356 x 368	196	14.66	14.72	0.65	1.03	7.14	17.10	1540.97	549.21
W14 x 14 1/2	120	356 x 368	179	14.48	14.67	0.59	0.94	7.79	18.70	1385.53	495.40
W14 x 14 1/2	109	356 x 368	162	14.32	14.61	0.52	0.86	8.51	21.10	1244.50	445.91
UC14 x 14 1/2	103	356 x 368	153	14.25	14.59	0.48	0.81	8.95	23.60	1167.62	422.84
W14 x 14 1/2	99	356 x 368	147	14.17	14.57	0.48	0.78	9.34	22.80	1120.77	401.70
W14 x 14 1/2	90	356 x 368	134	14.02	14.52	0.44	0.71	10.20	25.00	1005.93	361.82
UC14 x 14 1/2	87	356 x 368	129	14.00	14.51	0.41	0.69	10.50	27.90	968.21	350.77
UB14 x 6 3/4	45	356 x 172	67	14.31	6.82	0.36	0.62	5.52	34.20	468.49	32.67
W14 x 6 3/4	38	356 x 172	57	14.10	6.78	0.31	0.52	6.57	38.00	394.25	26.81
W14 x 6 3/4	34	356 x 172	51	13.98	6.74	0.28	0.46	7.41	41.70	347.40	23.33
W14 x 6 3/4	30	356 x 172	45	13.84	6.73	0.27	0.39	8.72	43.50	299.35	19.63
W14 x 5	26	356 x 127	39	13.91	5.02	0.26	0.42	5.96	46.10	254.19	8.94
W14 x 5	22	356 x 127	33	13.74	5.00	0.23	0.33	7.47	51.70	206.81	7.02

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W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by Structural Sections in accordance with BS4: Part 1

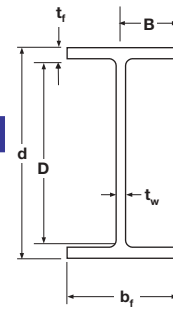
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H in ⁶	Torsional Constant J in ⁴	Mass per foot lb	Designation Serial Size in
Axis xx in	Axis yy in	Axis xx in ³	Axis yy in ³	Axis xx in ³	Axis yy in ³						
8.15	4.69	1280.89	528.59	1664.73	818.33	0.85	3.79	361956271742752000.00	1472.50	730	W14 x 16
7.99	4.61	1152.13	473.00	1482.88	731.06	0.85	4.01	305726439404114000.00	1141.67	665	W14 x 16
7.80	4.57	1037.40	424.05	1322.99	654.78	0.85	4.25	258806181955980000.00	886.77	605	W14 x 16
7.64	4.49	932.44	378.41	1176.54	583.57	0.85	4.54	219333584420248000.00	677.75	550	W14 x 16
7.48	4.41	839.08	339.05	1048.39	522.24	0.84	4.85	186936263801298000.00	520.62	500	W14 x 16
7.32	4.37	757.30	304.20	937.32	468.11	0.84	5.18	160124688116649000.00	400.50	455	W14 x 16
7.24	4.33	707.27	282.97	870.20	434.79	0.84	5.41	144484602300605000.00	335.39	426	W14 x 16
7.17	4.29	657.23	261.91	803.07	402.21	0.84	5.69	129589282475800000.00	277.25	398	W14 x 16
7.09	4.25	608.41	241.35	737.78	370.23	0.84	6.00	115811111637856000.00	225.93	370	W14 x 16
6.97	4.25	559.16	220.72	673.09	338.25	0.84	6.37	102405323795532000.00	180.31	342	W14 x 16
6.89	4.21	509.30	198.82	607.37	304.33	0.84	6.88	89744301944447700.00	138.19	311	W14 x 16
6.77	4.17	459.81	179.47	543.90	274.42	0.84	7.36	77828046084604000.00	106.17	283	W14 x 16
6.89	4.21	511.38	200.77	610.24	306.95	0.84	6.86	90489067935688000.00	139.59	264	UC14 x 16
6.69	4.13	416.06	161.41	487.95	246.54	0.84	7.96	67773705202860900.00	80.48	257	W14 x 16
6.61	4.09	375.91	144.99	437.17	221.21	0.84	8.62	59208896303598300.00	60.78	233	W14 x 16
6.73	4.13	427.17	165.98	501.62	253.25	0.84	7.87	70380386172201700.00	85.29	228	UC14 x 16
6.54	4.06	338.25	129.55	390.25	197.47	0.84	9.40	51388853395575900.00	45.17	211	W14 x 16
6.50	4.06	310.37	118.33	355.65	180.14	0.84	10.10	45803108461274100.00	35.41	193	W14 x 16
6.42	4.02	282.36	107.16	321.60	163.06	0.83	10.90	40589746522592500.00	27.20	176	W14 x 16
6.38	3.98	254.71	96.11	287.97	146.09	0.83	11.90	35562576081721000.00	20.25	159	W14 x 16
6.61	4.09	367.97	142.19	427.17	216.02	0.84	8.84	57719364321117800.00	56.22	145	UC14 x 16
6.34	3.94	232.81	87.39	261.67	132.73	0.83	12.80	31727031226833800.00	15.66	145	W14 x 16
6.34	3.78	216.02	76.89	242.26	117.17	0.84	13.40	26662622486400200.00	13.41	136	UC14 x 14 1/2
6.30	3.75	210.23	74.63	235.92	113.38	0.84	13.50	25508235199977900.00	12.76	132	W14 x 14 1/2
6.26	3.73	191.37	67.55	213.58	102.58	0.84	14.60	22715362732827000.00	9.75	120	W14 x 14 1/2
6.22	3.72	173.86	61.08	192.77	92.63	0.84	15.90	20220396662172200.00	7.38	109	W14 x 14 1/2
6.22	3.74	163.54	57.85	181.24	87.87	0.84	17.00	19028771076187900.00	6.03	103	UC14 x 14 1/2
6.18	3.70	158.11	55.17	174.59	83.66	0.84	17.30	18023336988013600.00	5.60	99	W14 x 14 1/2
6.14	3.68	143.53	49.80	157.75	75.55	0.84	18.90	16012468811664900.00	4.25	90	W14 x 14 1/2
6.14	3.71	137.91	48.39	151.34	73.23	0.85	19.80	15565609216920800.00	3.68	87	UC14 x 14 1/2
5.94	1.57	65.30	9.58	73.84	14.83	0.89	24.40	1534217941954870.00	1.34	45	UB14 x 6 3/4
5.87	1.54	55.96	7.93	62.92	12.27	0.89	27.30	1236311545458780.00	0.91	38	W14 x 6 3/4
5.83	1.51	49.73	6.90	55.78	10.68	0.89	30.20	1065015367473530.00	0.65	34	W14 x 6 3/4
5.75	1.47	43.27	5.84	48.70	9.09	0.88	34.00	889995359532075.00	0.46	30	W14 x 6 3/4
5.67	1.06	36.55	3.56	41.62	5.62	0.88	32.40	405897465225925.00	0.44	26	W14 x 5
5.55	1.02	30.08	2.81	34.36	4.44	0.87	38.00	316525546277098.00	0.27	22	W14 x 5

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W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by Structural Sections in accordance with BS4: Part 1



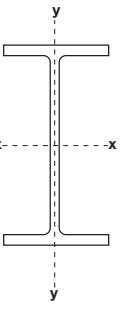
Designation		Serial Size	Mass per foot	Serial size	Mass per metre	Depth of Section	Width of Section	Thickness of Web	Thickness of Flange	Ratios for Local Buckling		Second Movement of Area	
in	lb									in	kg	in	in
						d	b _f	t _w	t _f			in ⁴	in ⁴
W12 x 12	336	305 x 305	500	16.82	13.39	1.78	2.96	2.26	5.25	4067.45	1187.56		
W12 x 12	305	305 x 305	454	16.32	13.24	1.63	2.70	2.45	5.74	3553.31	1049.90		
W12 x 12	279	305 x 305	415	15.85	13.14	1.53	2.47	2.66	6.10	3118.46	937.46		
W12 x 12	252	305 x 305	375	15.41	13.00	1.39	2.25	2.89	6.69	2724.45	828.15		
W12 x 12	230	305 x 305	342	15.05	12.89	1.28	2.07	3.11	7.27	2421.73	742.14		
W12 x 12	210	305 x 305	313	14.71	12.79	1.18	1.90	3.36	7.90	2151.93	665.01		
W12 x 12	190	305 x 305	283	14.38	12.67	1.06	1.74	3.65	8.81	1899.18	589.82		
W12 x 12	170	305 x 305	253	14.03	12.57	0.96	1.56	4.03	9.72	1651.25	517.26		
UC12 x 12	161	305 x 305	240	13.88	12.54	0.91	1.48	4.22	10.70	1542.41	487.71		
W12 x 12	152	305 x 305	226	13.71	12.48	0.87	1.40	4.45	10.70	1439.34	454.80		
W12 x 12	136	305 x 305	202	13.41	12.40	0.79	1.25	4.95	11.80	1251.95	398.58		
UC12 x 12	133	305 x 305	198	13.38	12.38	0.75	1.24	5.01	12.90	1222.88	391.61		
W12 x 12	120	305 x 305	179	13.12	12.32	0.71	1.11	5.57	13.20	1077.29	345.24		
W12 x 12	106	305 x 305	158	12.88	12.23	0.61	0.99	6.19	15.30	937.46	301.51		
W12 x 12	96	305 x 305	137	12.71	12.16	0.55	0.90	6.74	16.90	840.16	270.52		
UC12 x 12	92	305 x 305	137	12.62	12.17	0.54	0.85	7.12	17.90	788.02	257.07		
W12 x 12	87	305 x 305	129	12.53	12.13	0.52	0.81	7.48	18.10	747.18	241.21		
W12 x 12	79	305 x 305	118	12.38	12.08	0.47	0.74	8.20	19.90	669.34	216.42		
W12 x 12	72	305 x 305	107	12.25	12.04	0.43	0.67	8.99	21.80	602.55	194.82		
W12 x 12	65	305 x 305	97	12.12	12.00	0.39	0.61	9.90	23.90	539.60	174.76		
UB12 x 6	36	305 x 152	54	12.22	6.57	0.31	0.54	6.09	33.60	281.09	25.47		
UB12 x 6	31	305 x 152	46	12.07	6.52	0.26	0.46	7.02	39.60	237.85	21.53		
UB12 x 6	27	305 x 152	40	11.94	6.50	0.24	0.40	8.09	44.20	204.21	18.36		
UB12 x 5	32	305 x 127	48	12.24	4.93	0.35	0.55	4.47	29.50	230.16	11.08		
UB12 x 5	28	305 x 127	42	12.09	4.89	0.31	0.48	5.14	33.10	197.01	9.35		
UB12 x 5	25	305 x 127	37	11.98	4.86	0.28	0.42	5.77	37.40	172.26	8.07		
W12 x 4	22	305 x 102	33	12.31	4.03	0.26	0.43	4.74	38.00	170.17	4.73		
W12 x 4	19	305 x 102	28	12.16	4.00	0.24	0.35	5.71	41.80	143.96	3.82		
W12 x 4	16	305 x 305	143	11.99	3.99	0.22	0.26	7.56	44.80	116.40	2.86		

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W SHAPES in accordance with ASTM A6/A6M

Dimensions and Properties

Supplemented by Structural Sections in accordance with BS4: Part 1



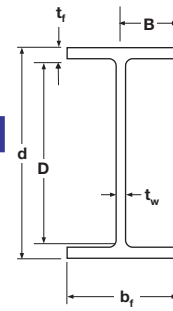
Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter	Torsional Index	Warping Constant	Torsional Constant	Mass per foot	Designation
xx	yy	xx	yy	xx	yy						
in	in	in ³	in ³	in ³	in ³	u	x	H	J	lb	in
6.42	3.46	483.61	177.46	604.26	274.06	0.86	4.97	56974598329877600.00	247.22	336	W12 x 12
6.30	3.42	435.34	158.60	538.60	244.64	0.86	5.32	48782172426235100.00	188.86	305	W12 x 12
6.18	3.38	393.48	142.67	482.51	220.05	0.86	5.69	42079278505073000.00	145.66	279	W12 x 12
6.06	3.34	353.69	127.36	429.55	196.19	0.86	6.11	35860482478217100.00	110.23	252	W12 x 12
5.98	3.30	321.84	115.09	387.56	177.09	0.86	6.54	3124293333527700.00	85.67	230	W12 x 12
5.91	3.28	292.61	103.98	349.42	159.76	0.86	7.01	27258435279392400.00	66.38	210	W12 x 12
5.83	3.24	264.11	93.12	312.50	142.80	0.86	7.57	23571843622753300.00	50.09	190	W12 x 12
5.75	3.21	235.37	82.32	275.83	126.08	0.85	8.28	20108681763486200.00	36.47	170	W12 x 12
5.71	3.21	222.13	78.11	259.35	119.00	0.85	8.74	18730864679691800.00	30.51	161	UC12 x 12
5.67	3.18	209.98	72.92	243.97	111.55	0.85	9.05	17241332697211300.00	26.64	152	W12 x 12
5.59	3.15	186.73	64.26	215.11	98.31	0.85	9.95	14746366626556600.00	19.22	136	W12 x 12
5.59	3.17	183.07	63.46	209.92	96.42	0.85	10.20	14448460230060500.00	17.63	133	UC12 x 12
5.51	3.12	164.28	56.02	187.59	85.62	0.85	11.10	12437592053711800.00	13.41	120	W12 x 12
5.47	3.10	145.54	49.31	164.70	75.18	0.85	12.20	10650153674735300.00	9.47	106	W12 x 12
5.43	3.08	132.24	44.49	18.65	67.74	0.85	13.30	9421289789188910.00	7.21	96	W12 x 12
5.39	3.08	125.10	42.23	140.35	64.07	0.85	14.10	8899953595320750.00	5.98	92	UC12 x 12
5.39	3.06	119.24	39.79	133.40	60.60	0.85	14.50	8266902502766550.00	5.38	87	W12 x 12
5.35	3.04	108.13	35.82	120.34	54.49	0.85	15.80	7335945013716260.00	4.08	79	W12 x 12
5.31	3.02	98.37	32.34	108.93	49.25	0.85	17.10	6516702423352010.00	3.12	72	W12 x 12
5.28	3.01	89.03	29.11	98.13	44.24	0.85	18.60	5771936432111780.00	2.36	65	W12 x 12
5.12	1.55	46.01	7.75	51.63	11.96	0.89	23.60	871376209751069.00	0.84	36	UB12 x 6
5.12	1.54	39.42	6.59	43.94	10.13	0.89	27.10	726146841459224.00	0.53	31	UB12 x 6
5.08	1.52	34.17	5.65	38.02	8.67	0.89	31.00	610708112816989.00	0.35	27	UB12 x 6
4.92	1.08	37.59	4.49	43.39	7.08	0.87	23.30	379830655532517.00	0.76	32	UB12 x 5
4.88	1.06	32.59	3.82	37.47	6.00	0.87	26.60	315036014294617.00	0.51	28	UB12 x 5
4.84	1.05	28.74	3.33	32.89	5.21	0.87	29.70	269977671824583.00	0.36	25	UB12 x 5
4.96	0.83	27.64	2.34	31.85	3.81	0.87	25.50	167572348029052.00	0.48	22	W12 x 4
4.88	0.80	23.68	1.91	27.28	3.12	0.87	28.30	134057878423241.00	0.34	19	W12 x 4
4.76	0.74	19.41	1.43	22.52	2.39	0.86	31.90	96819578861229.90	0.22	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



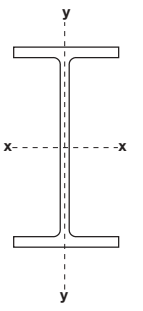
Designation		Serial Size	Mass per foot	Serial size	Mass per metre	Depth of Section	Width of Section	Thickness of Web	Thickness of Flange	Ratios for Local Buckling		Second Moment of Area	
in	lb									in	kg	in	in
						d	b _f	t _w	t _f			in ⁴	in ⁴
W10 x 10	112	254 x 254	167	11.38	10.41	0.76	1.25	4.16	9.66	725.56	236.12		
W10 x 10	100	254 x 254	149	11.10	10.34	0.68	1.12	4.62	10.70	627.78	206.30		
W10 x 10	88	254 x 254	131	10.84	10.26	0.61	0.99	5.19	12.00	538.64	178.39		
W10 x 10	77	254 x 254	115	10.60	10.19	0.53	0.87	5.86	13.70	461.52	153.62		
UC10 x 10	72	254 x 254	107	10.50	10.19	0.50	0.81	6.31	15.60	420.44	142.47		
W10 x 10	68	254 x 254	101	10.40	10.13	0.47	0.77	6.56	15.50	400.02	133.87		
W10 x 10	60	254 x 254	89	10.22	10.08	0.42	0.68	7.40	17.30	346.92	116.38		
W10 x 10	54	254 x 254	80	10.09	10.03	0.37	0.61	8.17	19.70	308.24	103.45		
W10 x 10	49	254 x 254	73	9.98	10.00	0.34	0.56	8.94	21.50	277.73	93.29		
W10 x 5 3/4	30	254 x 152	45	10.47	5.81	0.30	0.51	5.68	28.20	173.12	16.77		
UB10 x 5 3/4	29	254 x 152	43	10.22	5.80	0.28	0.50	5.80	30.40	157.12	16.26		
W10 x 5 3/4	26	254 x 152	39	10.33	5.77	0.26	0.44	6.54	32.50	147.37	14.15		
UB10 x 5 3/4	25	254 x 152	37	10.08	5.76	0.25	0.43	6.72	34.80	133.10	13.72		
W10 x 5 3/4	22	254 x 152	33	10.17	5.75	0.24	0.36	8.03	35.20	120.70	11.39		
UB10 x 5 3/4	21	254 x 152	31	9.90	5.75	0.24	0.34	8.49	36.50	105.95	10.76		
W10 x 4	19	254 x 102	28	10.24	4.02	0.25	0.39	5.10	33.50	99.06	4.28		
W10 x 4	17	254 x 102	25	10.11	4.01	0.24	0.33	6.07	35.20	84.93	3.58		
W10 x 4	15	254 x 102	22	9.99	4.00	0.23	0.27	7.36	37.00	71.91	2.93		
W8 x 8	67	203 x 203	100	9.00	8.28	0.57	0.93	4.44	10.30	273.65	88.44		
W8 x 8	58	203 x 203	86	8.75	8.22	0.51	0.81	5.07	11.50	230.40	75.22		
W8 x 8	48	203 x 203	71	8.50	8.11	0.40	0.69	5.92	14.60	186.22	61.00		
W8 x 8	40	203 x 203	60	8.25	8.07	0.36	0.56	7.22	16.40	148.60	49.06		
W8 x 8	35	203 x 203	52	8.12	8.02	0.31	0.50	8.08	18.90	129.09	42.69		
W8 x 8	31	203 x 203	46	8.00	8.00	0.28	0.43	9.24	20.70	111.88	37.00		
W8 x 5 1/4	21	203 x 133	31	8.28	5.27	0.25	0.40	6.56	25.70	77.34	9.83		
UB8 x 5 1/4	20	203 x 133	30	8.14	5.27	0.25	0.38	6.97	26.90	69.67	9.25		
W8 x 5 1/4	18	203 x 133	27	8.14	5.25	0.23	0.33	7.94	28.40	63.81	8.00		
UB8 x 5 1/4	17	203 x 133	25	8.00	5.24	0.22	0.31	8.54	30.20	56.22	7.40		
UB8 x 4	16	203 x 102	24	8.00	4.01	0.21	0.37	5.47	31.40	50.69	3.94		
UB7 x 4	13	203 x 102	19	7.00	3.98	0.19	0.31	6.41	30.60	32.67	3.29		
W6 x 6	25	152 x 152	37	6.38	6.08	0.32	0.46	6.66	14.00	54.66	17.13		
W6 x 6	20	152 x 152	30	6.20	6.02	0.26	0.37	8.22	17.20	42.60	13.33		
W6 x 6	15	152 x 152	22	5.99	5.99	0.23	0.26	11.50	19.60	30.13	9.32		
UB6 x 3 1/2	11	152 x 89	16	6.00	3.49	0.18	0.30	5.76	27.10	20.04	2.16		
UB5 x 3	9	127 x 76	13	5.00	2.99	0.16	0.30	5.00	24.10	11.36	1.34		

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

W SHAPES in accordance with ASTM A6/A6M

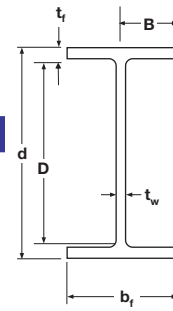
Dimensions and Properties

Supplemented by Structural Sections in accordance with BS4: Part 1



Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter	Torsional Index	Warping Constant	Torsional Constant	Mass per foot	Designation
xx	yy	xx	yy	xx	yy						
in	in	in ³	in ³	in ³	in ³	u	x	H	J	lb	in
4.69	2.66	127.54	45.34	149.14	69.45	0.85	8.28	6069842828607870.00	15.98	112	W10 x 10
4.61	2.64	113.08	39.91	131.08	61.08	0.85	9.08	5138885339557590.00	11.48	100	W10 x 10
4.53	2.61	99.35	34.78	114.05	53.09	0.85	10.10	4319642749193330.00	8.02	88	W10 x 10
4.49	2.59	87.02	30.15	98.98	46.01	0.85	11.20	3638181867208520.00	5.55	77	W10 x 10
4.45	2.59	79.94	27.95	90.32	42.53	0.85	12.40	3343999300668630.00	4.13	72	UC10 x 10
4.45	2.57	76.89	26.42	86.71	40.28	0.85	12.40	3101950353515560.00	3.92	68	W10 x 10
4.41	2.54	67.86	23.07	76.04	35.21	0.85	13.80	2647643098859020.00	2.76	60	W10 x 10
4.37	2.53	61.08	20.63	67.92	31.43	0.85	15.00	2323669892669520.00	2.05	54	W10 x 10
4.33	2.52	55.65	18.67	61.57	28.38	0.85	16.20	2070449455647840.00	1.59	49	W10 x 10
4.37	1.37	33.07	5.77	37.29	8.91	0.89	20.40	417068955094529.00	0.69	30	W10 x 5 3/4
4.29	1.39	30.76	5.61	34.54	8.60	0.89	21.20	383554485488718.00	0.57	29	UB10 x 5 3/4
4.37	1.35	28.56	4.91	31.98	7.57	0.89	23.20	346316185926707.00	0.45	26	W10 x 5 3/4
4.25	1.37	26.42	4.76	29.47	7.26	0.89	24.40	319132227246439.00	0.37	25	UB10 x 5 3/4
4.29	1.31	23.74	3.96	26.55	6.10	0.88	27.20	275563416758885.00	0.27	22	W10 x 5 3/4
4.13	1.32	21.42	3.74	23.98	5.74	0.88	29.60	245772777109276.00	0.21	21	UB10 x 5 3/4
4.13	0.86	19.34	2.14	22.21	3.38	0.88	25.50	104267238773632.00	0.27	19	W10 x 4
4.06	0.83	16.78	1.79	19.34	2.85	0.87	28.70	85648088992626.50	0.19	17	W10 x 4
3.98	0.80	14.40	1.46	16.66	2.34	0.86	32.30	70752769167821.80	0.13	15	W10 x 4
3.71	2.11	60.84	21.36	70.73	32.71	0.85	8.81	1437398363093640.00	5.33	67	W8 x 8
3.65	2.08	52.66	18.31	60.60	28.01	0.85	9.88	1184177926071970.00	3.58	58	W8 x 8
3.61	2.06	43.82	15.01	49.67	22.94	0.85	11.50	930957489050287.00	2.13	48	W8 x 8
3.53	2.03	36.00	12.14	40.46	18.55	0.85	13.50	726146841459224.00	1.24	40	W8 x 8
3.50	2.02	31.79	10.62	35.45	16.23	0.85	15.00	621879602685592.00	0.87	35	W8 x 8
3.47	2.00	27.95	9.28	31.00	14.10	0.85	16.70	528783853780563.00	0.61	31	W8 x 8
3.50	1.24	18.67	3.73	20.99	5.75	0.89	19.60	152677028204247.00	0.33	21	W8 x 5 1/4
3.43	1.25	17.09	3.51	19.16	5.38	0.88	21.50	139271240361923.00	0.25	20	UB8 x 5 1/4
3.44	1.22	15.68	3.05	17.51	4.70	0.88	22.70	122886388554638.00	0.21	18	W8 x 5 1/4
3.37	1.22	14.04	2.82	15.74	4.33	0.88	25.60	109480600712314.00	0.14	17	UB8 x 5 1/4
3.33	0.93	12.63	1.96	14.28	3.04	0.89	22.50	57346981325497.70	0.17	16	UB8 x 4
2.94	0.93	9.34	1.65	10.44	2.54	0.89	22.60	36754201667705.40	0.11	13	UB7 x 4
2.70	1.51	17.15	5.64	19.41	8.67	0.85	12.60	148953198248046.00	0.53	25	W6 x 6
2.65	1.48	13.73	4.43	15.38	6.77	0.85	15.10	111714898686034.00	0.29	20	W6 x 6
2.57	1.43	10.07	3.11	11.17	4.78	0.84	19.20	78200429080224.20	0.13	15	W6 x 6
2.52	0.83	6.65	1.23	7.51	1.90	0.89	19.60	17502000794145.40	0.09	11	UB6 x 3 1/2
2.11	0.72	4.55	0.90	5.14	1.38	0.90	16.30	7410421612840.29	0.07	9	UB5 x 3

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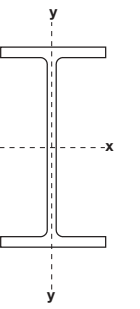
W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by Structural Sections in accordance with BS4: Part 1

Designation	Mass per	Area of	Surface Area	two end	Designation			
Serial Size	Serial size	Section	per foot	per tonne	Serial Size			
in	mm	in ²	ft ²	ft ²	in			
W40 x 12	327	1016 x 305	487	96.10	10.50	1.07	1.33472484	W40 x 12
W40 x 12	294	1016 x 305	438	86.34	10.40	1.06	1.19479401	W40 x 12
W40 x 12	264	1016 x 305	393	77.50	10.33	1.06	1.076391	W40 x 12
W40 x 12	235	1016 x 305	350	68.98	10.27	1.05	0.95798799	W40 x 12
W40 x 12	211	1016 x 305	314	62.00	10.20	1.05	0.8611128	W40 x 12
W40 x 12	183	1016 x 305	272	53.79	10.17	1.04	0.74270979	W40 x 12
W40 x 12	167	1016 x 305	249	49.14	10.10	1.04	0.68889024	W40 x 12
W40 x 12	149	1016 x 305	222	43.87	10.04	1.03	0.60277896	W40 x 12
W36 x 16 ¹ / ₂	359	914 x 420	534	105.40	11.48	1.18	1.46389176	W36 x 16 ¹ / ₂
W36 x 16 ¹ / ₂	328	914 x 420	488	96.26	11.42	1.17	1.34548875	W36 x 16 ¹ / ₂
W36 x 16 ¹ / ₂	300	914 x 420	446	88.35	11.38	1.17	1.22708574	W36 x 16 ¹ / ₂
W36 x 16 ¹ / ₂	280	914 x 420	417	82.46	11.35	1.16	1.14097446	W36 x 16 ¹ / ₂
W36 x 16 ¹ / ₂	260	914 x 420	387	76.42	11.32	1.16	1.06562709	W36 x 16 ¹ / ₂
W36 x 16 ¹ / ₂	245	914 x 420	365	72.08	11.25	1.15	1.00104363	W36 x 16 ¹ / ₂
W36 x 16 ¹ / ₂	230	914 x 420	342	67.58	11.22	1.15	0.94722408	W36 x 16 ¹ / ₂
W36 x 12	387	914 x 305	576	113.62	10.40	1.06	1.58229477	W36 x 12
W36 x 12	350	914 x 305	521	102.92	10.30	1.05	1.43160003	W36 x 12
W36 x 12	318	914 x 305	473	93.47	10.20	1.04	1.30243311	W36 x 12
W36 x 12	286	914 x 305	426	84.01	10.14	1.04	1.16250228	W36 x 12
W36 x 12	256	914 x 305	381	75.33	10.04	1.03	1.04409927	W36 x 12
W36 x 12	232	914 x 305	345	68.20	9.97	1.02	0.94722408	W36 x 12
W36 x 12	210	914 x 305	313	61.85	9.94	1.02	0.8611128	W36 x 12
W36 x 12	194	914 x 305	289	57.04	9.88	1.01	0.79652934	W36 x 12
W36 x 12	182	914 x 305	271	53.63	9.84	1.01	0.74270979	W36 x 12
W36 x 12	170	914 x 305	253	50.07	9.81	1.00	0.69965415	W36 x 12
W36 x 12	160	914 x 305	238	47.12	9.78	1.00	0.65659851	W36 x 12
W36 x 12	150	914 x 305	223	44.33	9.74	1.00	0.61354287	W36 x 12
W36 x 12	135	914 x 305	201	39.84	9.71	0.99	0.54895941	W36 x 12
W33 x 15 ³ / ₄	387	838 x 400	576	113.77	11.09	1.04	1.73298951	W33 x 15 ³ / ₄
W33 x 15 ³ / ₄	354	838 x 400	527	104.32	10.99	1.04	1.58229477	W33 x 15 ³ / ₄
W33 x 15 ³ / ₄	318	838 x 400	473	93.62	10.93	1.01	1.44236394	W33 x 15 ³ / ₄
W33 x 15 ³ / ₄	291	838 x 400	433	85.72	10.86	1.11	1.1840301	W33 x 15 ³ / ₄
W33 x 15 ³ / ₄	263	838 x 400	391	77.50	10.76	1.10	1.076391	W33 x 15 ³ / ₄
W33 x 15 ³ / ₄	241	838 x 400	359	70.99	10.76	1.10	1.076391	W33 x 15 ³ / ₄
W33 x 15 ³ / ₄	221	838 x 400	329	65.26	10.70	1.10	0.90416844	W33 x 15 ³ / ₄
W33 x 15 ³ / ₄	201	838 x 400	299	59.21	10.63	1.10	0.81805716	W33 x 15 ³ / ₄

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



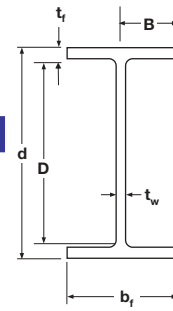
W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by Structural Sections in accordance with BS4: Part 1

Designation	Mass per	Serial	Mass per	Area of	Surface Area	two end	Designation	
Serial Size	Serial size	Section	per foot	per tonne	per foot	per tonne	Serial Size	
in	mm	in ²	ft ²	ft ²	ft ²	ft ²	in	
W33 x 11 ¹ / ₂	219	838 x 292	326	64.64	9.42	0.96	0.89340453	W33 x 11 ¹ / ₂
W33 x 11 ¹ / ₂	204	838 x 292	304	59.99	9.35	0.96	0.82882107	W33 x 11 ¹ / ₂
W33 x 11 ¹ / ₂	187	838 x 292	278	55.18	9.32	0.95	0.76423761	W33 x 11 ¹ / ₂
W33 x 11 ¹ / ₂	169	838 x 292	251	49.60	9.25	0.95	0.68889024	W33 x 11 ¹ / ₂
W33 x 11 ¹ / ₂	152	838 x 292	226	44.80	9.22	0.94	0.62430678	W33 x 11 ¹ / ₂
W33 x 11 ¹ / ₂	141	838 x 292	210	41.70	9.19	0.94	0.58125114	W33 x 11 ¹ / ₂
W33 x 11 ¹ / ₂	130	838 x 292	193	38.44	9.15	0.94	0.52743159	W33 x 11 ¹ / ₂
W33 x 11 ¹ / ₂	118	838 x 292	176	34.88	9.12	0.93	0.48437595	W33 x 11 ¹ / ₂
W30 x 15	326	762 x 381	485	95.79	10.24	1.05	1.32396093	W30 x 15
W30 x 15	292	762 x 381	435	85.72	10.14	1.04	1.19479401	W30 x 15
W30 x 15	261	762 x 381	388	76.88	10.07	1.03	1.06562709	W30 x 15
W30 x 15	235	762 x 381	350	69.13	10.01	1.02	0.95798799	W30 x 15
W30 x 15	211	762 x 381	314	62.16	9.97	1.02	0.8611128	W30 x 15
W30 x 15	191	762 x 381	284	56.27	9.91	1.01	0.77500152	W30 x 15
W30 x 15	173	762 x 381	257	51.00	9.88	0.82	0.77500152	W30 x 15
W30 x 10 ¹ / ₂	148	762 x 267	220	43.71	8.40	1.02	0.50590377	W30 x 10 ¹ / ₂
W30 x 10 ¹ / ₂	132	762 x 267	196	39.06	8.37	0.97	0.47361204	W30 x 10 ¹ / ₂
W30 x 10 ¹ / ₂	124	762 x 267	185	36.74	8.33	0.97	0.4305564	W30 x 10 ¹ / ₂
W30 x 10 ¹ / ₂	116	762 x 267	173	34.41	8.30	0.99	0.40902858	W30 x 10 ¹ / ₂
W30 x 10 ¹ / ₂	108	762 x 267	161	31.78	8.27	0.63	0.71041806	W30 x 10 ¹ / ₂
W30 x 10 ¹ / ₂	99	762 x 267	147	29.30	8.23	0.42	0.83958498	W30 x 10 ¹ / ₂
W30 x 10 ¹ / ₂	90	762 x 267	134	26.51	8.23	0.84	0.36597294	W30 x 10 ¹ / ₂
W27 x 14	307	686 x 356	457	90.52	9.48	0.97	1.24861356	W27 x 14
W27 x 14	281	686 x 356	418	82.77	9.38	0.96	1.15173837	W27 x 14
W27 x 14	258	686 x 356	384	75.95	9.32	0.96	1.05486318	W27 x 14
W27 x 14	235	686 x 356	350	69.29	9.25	0.95	0.95798799	W27 x 14
W27 x 14	217	686 x 356	323	64.02	9.22	0.94	0.88264062	W27 x 14
W27 x 14	194	686 x 356	289	57.04	9.15	0.94	0.78576543	W27 x 14
W27 x 14	178	686 x 356	265	52.39	9.12	0.93	0.72118197	W27 x 14
W27 x 14	161	686 x 356	240	47.59	9.09	0.93	0.65659851	W27 x 14
W27 x 14	146	686 x 356	217	43.25	9.02	0.93	0.60277896	W27 x 14

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



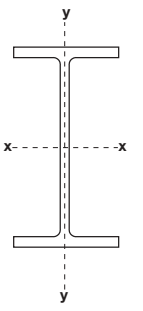
W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by Structural Sections in accordance with BS4: Part 1

Designation Serial Size in	Mass per foot lb	Serial size mm	Mass per metre kg	Area of Section in ²	Surface Area per foot ft ²	per tonne ft ²	two end faces ft ²	Designation Serial Size in
W27 x 10	221	686 x 254	329	65.10	8.07	0.83	0.90416844	W27 x 10
W27 x 10	201	686 x 254	299	59.37	8.01	0.82	0.81805716	W27 x 10
W27 x 10	182	686 x 254	271	53.63	7.94	0.81	0.74270979	W27 x 10
W27 x 10	159	686 x 254	237	46.81	7.87	0.80	0.6458346	W27 x 10
W27 x 10	129	686 x 254	192	37.98	7.78	0.79	0.95798799	W27 x 10
W27 x 10	114	686 x 254	170	33.79	7.74	0.79	0.46284813	W27 x 10
W27 x 10	102	686 x 254	152	30.23	7.68	0.79	0.41979249	W27 x 10
W27 x 10	94	686 x 254	140	27.75	7.64	0.78	0.38750076	W27 x 10
W27 x 10	84	686 x 254	125	24.96	7.61	0.78	0.34444512	W27 x 10
W24 x 12 ³ / ₄	306	610 x 324	455	90.06	8.69	0.89	1.24861356	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	279	610 x 324	415	82.31	8.63	0.88	1.14097446	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	250	610 x 324	372	73.78	8.53	0.88	1.02257145	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	229	610 x 324	341	67.58	8.46	0.87	0.93646017	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	207	610 x 324	308	60.92	8.40	0.86	0.83958498	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	192	610 x 324	286	56.73	8.37	0.86	0.77500152	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	176	610 x 324	262	51.93	8.30	0.85	0.72118797	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	162	610 x 324	241	48.05	8.30	0.85	0.66736242	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	146	610 x 324	217	43.40	8.23	0.85	0.60277896	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	131	610 x 324	195	38.91	8.20	0.84	0.5381955	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	117	610 x 324	174	34.72	8.14	0.84	0.47361204	W24 x 12 ³ / ₄
W24 x 12 ³ / ₄	104	610 x 324	155	30.85	8.10	0.83	0.4305564	W24 x 12 ³ / ₄
UB24 x 12	160	610 x 305	238	46.97	8.04	0.82	0.65659851	UB24 x 12
UB24 x 12	120	610 x 305	179	35.34	7.91	0.81	0.49513986	UB24 x 12
UB24 x 12	100	610 x 305	149	29.45	7.84	0.80	0.40902858	UB24 x 12
W24 x 9	198	610 x 305	295	58.59	7.28	0.75	0.80729325	W24 x 9
W24 x 9	163	610 x 305	243	48.36	7.15	0.73	0.66736242	W24 x 9
W24 x 9	146	610 x 305	190	37.82	7.09	0.73	0.61354287	W24 x 9
W24 x 9	128	610 x 305	217	43.40	7.02	0.72	0.51666768	W24 x 9
W24 x 9	114	610 x 305	170	34.26	6.99	0.71	0.47361204	W24 x 9
W24 x 9	103	610 x 305	153	30.69	6.92	0.71	0.41979249	W24 x 9
W24 x 9	94	610 x 305	140	28.06	6.92	0.71	0.38750076	W24 x 9
W24 x 9	84	610 x 305	125	24.96	6.89	0.71	0.34444512	W24 x 9
W24 x 9	76	610 x 305	113	22.79	6.82	0.70	0.31215339	W24 x 9
W24 x 9	68	610 x 305	101	20.31	6.79	0.70	0.27986166	W24 x 9

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



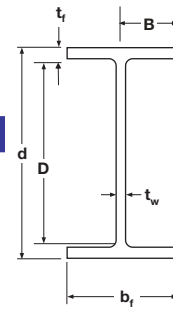
W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by Structural Sections in accordance with BS4: Part 1

Designation Serial Size in	Mass per foot lb	Serial size mm	Mass per metre kg	Area of Section in ²	Surface Area per foot ft ²	per tonne ft ²	two end faces ft ²	Designation Serial Size in
W24 x 7	62	610 x 178	92	18.60	6.17	0.63	0.25833384	W24 x 7
W24 x 7	55	610 x 178	81	16.43	6.14	0.63	0.22604211	W24 x 7
W21 x 12 ¹ / ₄	275	533 x 311	409	80.76	8.04	0.82	1.11944664	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	248	533 x 311	369	71.30	7.97	0.81	0.99027972	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	223	533 x 311	332	65.41	7.87	0.81	0.90416844	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	201	533 x 311	299	59.21	7.81	0.80	0.81805716	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	182	533 x 311	271	53.63	7.74	0.79	0.74270979	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	166	533 x 311	247	48.67	7.68	0.78	0.67812633	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	147	533 x 311	219	43.25	7.64	0.79	0.60277896	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	132	533 x 311	196	38.75	7.61	0.79	0.5381955	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	122	533 x 311	182	35.81	7.58	0.77	0.49513986	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	111	533 x 311	165	32.71	7.55	0.77	0.45208422	W21 x 12 ¹ / ₄
W21 x 12 ¹ / ₄	101	533 x 311	150	29.76	7.51	0.77	0.40902858	W21 x 12 ¹ / ₄
W21 x 8 ¹ / ₄	93	533 x 210	138	27.28	6.23	0.64	0.37673685	W21 x 8 ¹ / ₄
W21 x 8 ¹ / ₄	83	533 x 210	123	24.34	6.20	0.64	0.33368121	W21 x 8 ¹ / ₄
W21 x 8 ¹ / ₄	73	533 x 210	109	21.55	6.17	0.63	0.30138948	W21 x 8 ¹ / ₄
W21 x 8 ¹ / ₄	68	533 x 210	101	20.00	6.14	0.63	0.27986166	W21 x 8 ¹ / ₄
W21 x 8 ¹ / ₄	62	533 x 210	92	18.29	6.10	0.63	0.25833384	W21 x 8 ¹ / ₄
UB21 x 8 ¹ / ₄	55	533 x 210	82	16.28	6.07	0.62	0.22604211	UB21 x 8 ¹ / ₄
W21 x 6 ¹ / ₂	57	533 x 165	85	16.74	5.54	0.57	0.23680602	W21 x 6 ¹ / ₂
W21 x 6 ¹ / ₂	50	533 x 165	74	14.76	5.51	0.57	0.20451429	W21 x 6 ¹ / ₂
W21 x 6 ¹ / ₂	44	533 x 165	65	12.97	5.48	0.56	0.18298647	W21 x 6 ¹ / ₂
W18 x 7 ¹ / ₂	71	457 x 191	106	20.93	5.48	0.56	0.29062557	W18 x 7 ¹ / ₂
W18 x 7 ¹ / ₂	65	457 x 191	97	19.07	5.45	0.56	0.26909775	W18 x 7 ¹ / ₂
W18 x 7 ¹ / ₂	60	457 x 191	89	17.67	5.45	0.56	0.24756993	W18 x 7 ¹ / ₂
W18 x 7 ¹ / ₂	55	457 x 191	82	16.28	5.41	0.55	0.22604211	W18 x 7 ¹ / ₂
W18 x 7 ¹ / ₂	50	457 x 191	74	14.74	5.38	0.56	0.20451429	W18 x 7 ¹ / ₂
UB18 x 7 ¹ / ₂	45	457 x 191	67	13.25	5.35	0.55	0.18298647	UB18 x 7 ¹ / ₂
W18 x 6	46	457 x 152	68	13.59	4.92	0.51	0.18298647	W18 x 6
W18 x 6	40	457 x 152	60	11.83	4.89	0.50	0.16145865	W18 x 6
W18 x 6	35	457 x 152	52	10.35	4.86	0.50	0.13993083	W18 x 6
W16 x 7	57	406 x 178	85	16.74	4.99	0.51	0.23680602	W16 x 7
W16 x 7	50	406 x 178	74	14.82	4.95	0.50	0.20451429	W16 x 7
W16 x 7	45	406 x 178	67	13.35	4.92	0.50	0.18298647	W16 x 7
W16 x 7	40	406 x 178	60	11.78	4.89	0.50	0.16145865	W16 x 7
W16 x 7	36	406 x 178	54	10.60	4.86	0.50	0.15069474	W16 x 7
W16 x 5 ¹ / ₂	31	406 x 140	46	9.18	4.40	0.45	0.12916692	W16 x 5 ¹ / ₂
W16 x 5 ¹ / ₂	26	406 x 140	39	7.80	4.36	0.45	0.1076391	W16 x 5 ¹ / ₂

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

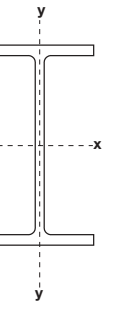


W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

Supplemented by Structural Sections in accordance with BS4: Part 1

Designation Serial Size in	Mass per foot lb	Serial size mm	Mass per metre kg	Area of Section in ²	Surface Area per foot ft ²	per tonne ft ²	two end faces ft ²	Designation Serial Size in
W14 x 16	730	356 x 406	1086	215.30	9.09	0.93	2.98160307	W14 x 16
W14 x 16	665	356 x 406	990	195.92	8.92	0.91	2.72326923	W14 x 16
W14 x 16	605	356 x 406	900	178.56	8.76	0.90	2.4756993	W14 x 16
W14 x 16	550	356 x 406	818	161.98	8.63	0.88	2.24965719	W14 x 16
W14 x 16	500	356 x 406	744	147.25	8.50	0.87	2.0451429	W14 x 16
W14 x 16	455	356 x 406	677	133.92	8.37	0.86	1.86215643	W14 x 16
W14 x 16	426	356 x 406	634	125.55	8.27	0.85	1.74375342	W14 x 16
W14 x 16	398	356 x 406	592	117.34	8.20	0.84	1.62535041	W14 x 16
W14 x 16	370	356 x 406	551	109.12	8.10	0.83	1.5069474	W14 x 16
W14 x 16	342	356 x 406	509	100.75	8.20	0.82	1.3993083	W14 x 16
W14 x 16	311	356 x 406	463	91.76	7.94	0.81	1.27014138	W14 x 16
W14 x 16	283	356 x 406	421	83.55	7.87	0.81	1.16250228	W14 x 16
UC14 x 16	264	356 x 406	393	92.23	7.81	0.80	1.076391	UC14 x 16
W14 x 16	257	356 x 406	382	75.80	7.78	0.80	1.05486318	W14 x 16
W14 x 16	233	356 x 406	347	68.67	7.71	0.79	0.94722408	W14 x 16
UC14 x 16	228	356 x 406	339	77.66	7.71	0.79	0.93646017	UC14 x 16
W14 x 16	211	356 x 406	314	62.00	7.64	0.78	0.8611128	W14 x 16
W14 x 16	193	356 x 406	287	56.89	7.58	0.78	0.78576543	W14 x 16
W14 x 16	176	356 x 406	262	52.08	7.55	0.77	0.72118197	W14 x 16
W14 x 16	159	356 x 406	237	46.97	7.48	0.76	0.6458346	W14 x 16
W14 x 16	145	356 x 406	216	67.12	7.45	0.76	0.59201505	W14 x 16
UC14 x 14 1/2	136	356 x 368	202	42.94	7.19	0.78	0.54898941	UC14 x 14 1/2
W14 x 14 1/2	132	356 x 368	196	39.84	7.15	0.75	0.5381955	W14 x 14 1/2
W14 x 14 1/2	120	356 x 368	179	39.06	7.12	0.80	0.49513986	W14 x 14 1/2
W14 x 14 1/2	109	356 x 368	162	35.65	8.50	0.80	0.44132031	W14 x 14 1/2
UC14 x 14 1/2	103	356 x 368	153	32.24	7.09	0.77	0.41979249	UC14 x 14 1/2
W14 x 14 1/2	99	356 x 368	147	30.23	7.05	0.75	0.40902858	W14 x 14 1/2
W14 x 14 1/2	90	356 x 368	134	29.30	7.02	0.79	0.36597294	W14 x 14 1/2
UC14 x 14 1/2	87	356 x 368	129	26.66	7.02	0.75	0.35520903	UC14 x 14 1/2
UB14 x 6 3/4	45	356 x 172	67	25.42	4.53	0.90	0.18298647	UB14 x 6 3/4
W14 x 6 3/4	38	356 x 172	57	13.25	4.49	0.54	0.15069474	W14 x 6 3/4
W14 x 6 3/4	34	356 x 172	51	11.39	4.46	0.51	0.13993083	W14 x 6 3/4
W14 x 6 3/4	30	356 x 172	45	10.18	4.46	0.52	0.17222256	W14 x 6 3/4
W14 x 5	26	356 x 127	39	9.08	3.90	0.46	0.1076391	W14 x 5
W14 x 5	22	356 x 127	33	7.92	3.87	0.47	0.08611128	W14 x 5



W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

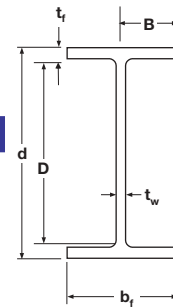
Supplemented by Structural Sections in accordance with BS4: Part 1

Designation Serial Size in	Mass per foot lb	Serial size mm	Mass per metre kg	Area of Section in ²	Surface Area per foot ft ²	per tonne ft ²	two end faces ft ²	Designation Serial Size in
W12 x 12	336	305 x 305	500	99.05	6.79	0.76	1.24861356	W12 x 12
W12 x 12	305	305 x 305	454	89.90	6.69	0.75	1.14097446	W12 x 12
W12 x 12	279	305 x 305	415	82.15	6.59	0.75	1.03333536	W12 x 12
W12 x 12	252	305 x 305	375	74.25	6.50	0.73	0.93646017	W12 x 12
W12 x 12	230	305 x 305	342	67.89	6.43	0.72	0.8611128	W12 x 12
W12 x 12	210	305 x 305	313	62.00	6.36	0.72	0.77500152	W12 x 12
W12 x 12	190	305 x 305	283	56.11	6.30	0.72	0.69965415	W12 x 12
W12 x 12	170	305 x 305	253	50.22	6.27	0.67	0.65659851	W12 x 12
UC12 x 12	161	305 x 305	240	47.43	6.20	0.67	0.62430678	UC12 x 12
W12 x 12	152	305 x 305	226	44.95	6.17	0.71	0.55972332	W12 x 12
W12 x 12	136	305 x 305	202	40.15	6.14	0.64	0.54895941	W12 x 12
UC12 x 12	133	305 x 305	198	39.06	6.10	0.69	0.49513986	UC12 x 12
W12 x 12	120	305 x 305	179	35.50	6.04	0.70	0.4305564	W12 x 12
W12 x 12	106	305 x 305	158	31.31	6.00	0.68	0.38750076	W12 x 12
W12 x 12	96	305 x 305	137	28.52	5.97	0.64	0.37673685	W12 x 12
UC12 x 12	92	305 x 305	137	26.97	5.97	0.65	0.35520903	UC12 x 12
W12 x 12	87	305 x 305	129	25.89	5.94	0.67	0.3229173	W12 x 12
W12 x 12	79	305 x 305	118	23.41	5.91	0.66	0.29062557	W12 x 12
W12 x 12	72	305 x 305	107	21.39	5.91	0.66	0.26909775	W12 x 12
W12 x 12	65	305 x 305	97	19.38	4.36	0.80	0.15069474	W12 x 12
UB12 x 6	36	305 x 152	54	10.66	4.33	0.51	0.12916692	UB12 x 6
UB12 x 6	31	305 x 152	46	9.10	4.30	0.50	0.1076391	UB12 x 6
UB12 x 6	27	305 x 152	40	7.95	3.58	0.31	0.12916692	UB12 x 6
UB12 x 5	32	305 x 127	48	9.49	3.54	0.41	0.11840301	UB12 x 5
UB12 x 5	28	305 x 127	42	8.28	3.51	0.41	0.09687519	UB12 x 5
UB12 x 5	25	305 x 127	37	7.32	3.31	0.39	0.08611128	UB12 x 5
W12 x 4	22	305 x 102	33	6.94	3.28	0.39	0.07534737	W12 x 4
W12 x 4	19	305 x 102	28	6.05	3.25	0.40	0.06458346	W12 x 4
W12 x 4	16	305 x 102	24	5.16	5.18	0.08	0.46284813	W12 x 4

W SHAPES in accordance with ASTM A6/A6M

Dimensions for Detailing

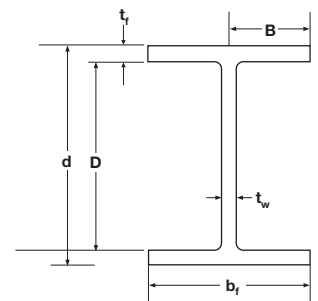
Supplemented by Structural Sections in accordance with BS4: Part 1



Designation		Area of		Surface Area		two end		Designation
Serial Size	Mass per foot	Serial size	Mass per metre	Section	per foot	per tonne	faces	Serial Size
in	lb	mm	kg	in ²	ft ²	ft ²	ft ²	in
W10 x 10	112	254 x 254	167	33.33	5.12	0.59	0.40902858	W10 x 10
W10 x 10	100	254 x 254	149	29.76	5.05	0.59	0.35520903	W10 x 10
W10 x 10	88	254 x 254	131	26.20	5.02	0.59	0.31215339	W10 x 10
W10 x 10	77	254 x 254	115	22.94	4.99	0.55	0.29062557	W10 x 10
UC10 x 10	72	254 x 254	107	21.08	4.95	0.54	0.27986166	UC10 x 10
W10 x 10	68	254 x 254	101	20.31	4.92	0.57	0.24756993	W10 x 10
W10 x 10	60	254 x 254	89	17.98	4.89	0.56	0.2152782	W10 x 10
W10 x 10	54	254 x 254	80	16.12	4.86	0.03	17.6528124	W10 x 10
W10 x 10	49	254 x 254	73	14.71	3.58	0.60	0.11840301	W10 x 10
W10 x 5 3/4	30	254 x 152	45	8.99	3.54	0.51	0.08611128	W10 x 5 3/4
UB10 x 5 3/4	29	254 x 152	43	8.49	3.58	0.41	0.1076391	UB10 x 5 3/4
W10 x 5 3/4	26	254 x 152	39	7.77	3.51	0.38	0.09687519	W10 x 5 3/4
UB10 x 5 3/4	25	254 x 152	37	7.32	3.54	0.41	0.08611128	UB10 x 5 3/4
W10 x 5 3/4	22	254 x 152	33	6.60	3.48	0.28	0.11840301	W10 x 5 3/4
UB10 x 5 3/4	21	254 x 152	31	6.15	2.95	0.33	0.07534737	UB10 x 5 3/4
W10 x 4	19	254 x 102	28	5.77	2.95	0.34	0.07534737	W10 x 4
W10 x 4	17	254 x 102	25	5.13	2.92	0.34	0.06458346	W10 x 4
W10 x 4	15	254 x 102	22	4.54	4.10	0.09	0.26909775	W10 x 4
W8 x 8	67	203 x 203	100	19.84	4.07	0.48	0.23680602	W8 x 8
W8 x 8	58	203 x 203	86	17.36	4.00	0.50	0.19375038	W8 x 8
W8 x 8	48	203 x 203	71	14.32	3.94	0.49	0.16145865	W8 x 8
W8 x 8	40	203 x 203	60	11.92	3.90	0.46	0.13993083	W8 x 8
W8 x 8	35	203 x 203	52	15.51	3.90	0.45	0.12916692	W8 x 8
W8 x 8	31	203 x 203	46	9.28	3.05	0.46	0.08611128	W8 x 8
W8 x 5 1/4	21	203 x 133	31	6.34	6.30	0.32	0.08611128	W8 x 5 1/4
UB8 x 5 1/4	20	203 x 133	30	5.92	6.30	0.35	0.07534737	UB8 x 5 1/4
W8 x 5 1/4	18	203 x 133	27	5.39	2.99	0.33	0.06458346	W8 x 5 1/4
UB8 x 5 1/4	17	203 x 133	25	4.96	2.59	0.29	0.06458346	UB8 x 5 1/4
UB8 x 4	16	203 x 102	24	4.56	2.43	0.31	0.05381955	UB8 x 4
UB7 x 4	13	203 x 102	19	3.77	2.99	0.16	0.1076391	UB7 x 4
W6 x 6	25	152 x 152	37	7.52	2.95	0.38	0.8611128	W6 x 6
W6 x 6	20	152 x 152	30	6.05	2.92	0.40	0.6458346	W6 x 6
W6 x 6	15	152 x 152	22	4.57	2.10	0.30	0.04305564	W6 x 6
UB6 x 3 1/2	11	152 x 89	16	3.15	1.77	0.23	0.03229173	UB6 x 3 1/2
UB5 x 3	9	127 x 76	13	2.56				UB5 x 3

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

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



Designation	Mass per foot	Serial size	Mass per metre	Depth of Section	Width of Section	Thickness of Web	Thickness of Flange	Ratios for		Second	
Serial Size	lb	mm	kg	d	b _f	t _w	t _f	Local Buckling Flange	Web	Area	Movement of
in				in	in	in	in	B/t _f	D/t _w	xx	yy
										in ²	in ²
UBP14 x 14 1/2	117	356 x 368	174	14.23	14.90	0.80	0.80	9.28	14.30	1225.28	444.46
UBP14 x 14 1/2	102	356 x 368	152	14.03	14.80	0.70	0.70	10.50	16.30	1057.10	382.00
UBP14 x 14 1/2	89	356 x 368	132	13.86	14.72	0.61	0.62	11.90	18.60	912.95	329.14
UBP14 x 14 1/2	73	356 x 368	108	13.64	14.61	0.50	0.51	14.40	22.70	735.17	264.28
UBP12 x 12	150	305 x 305	223	13.30	12.82	1.19	1.20	5.36	8.14	1266.12	422.84
UBP12 x 12	125	305 x 305	186	12.93	12.63	1.00	1.01	6.27	9.67	1023.47	338.75
UBP12 x 12	100	305 x 305	149	12.54	12.44	0.81	0.81	7.63	12.00	795.23	261.87
UBP12 x 12	84	305 x 305	125	12.30	12.32	0.69	0.69	8.89	14.10	658.29	216.23
UBP12 x 12	74	305 x 305	110	12.12	12.23	0.60	0.61	10.10	16.10	566.99	185.23
UBP12 x 12	62	305 x 305	93	11.96	12.15	0.52	0.52	11.60	18.50	480.50	156.88
UBP12 x 12	59	305 x 305	88	11.88	12.12	0.49	0.48	12.50	19.90	442.06	143.67
UBP12 x 12	53	305 x 305	79	11.78	12.06	0.43	0.44	13.80	22.40	394.01	128.05
UBP10 x 10	57	254 x 254	85	10.01	10.25	0.57	0.56	9.10	13.90	295.51	101.39
UBP10 x 10	48	254 x 254	71	9.83	10.16	0.47	0.47	10.80	16.70	242.65	82.65
UBP10 x 10	42	254 x 254	62	9.73	10.10	0.42	0.42	12.00	18.90	212.86	72.56
UBP8 x 8	36	203 x 203	53	8.03	8.18	0.44	0.45	9.11	14.20	120.85	41.08

Radius of Gyration	Elastic Modulus		Plastic Modulus		Buckling Parameter	Torsional Index	Warping Constant	Torsional Constant	Area of Section	Mass per foot	Designation	
	Axis xx	Axis yy	Axis xx	Axis yy								
in	in	in ³	in ³	in ³	u	x	H	J	in ²	lb	in	
5.98	3.59	172.09	59.56	194.67	91.54	0.82	15.80	19996966864800200.00	7.93	34.26	117	UBP14 x 14 1/2
5.94	3.56	150.73	51.57	169.04	78.72	0.82	17.90	16943426300715200.00	5.36	30.07	102	UBP14 x 14 1/2
5.91	3.54	131.81	44.67	147.07	68.35	0.82	20.10	1411221930498400.00	3.63	26.20	89	UBP14 x 14 1/2
5.87	3.50	108.01	36.13	119.61	55.10	0.82	24.20	11357681366413500.00	2.03	21.55	73	UBP14 x 14 1/2
5.35	3.10	190.39	65.91	222.74	102.52	0.83	9.65	15453894318234800.00	22.66	44.02	150	UBP12 x 12
5.28	3.04	158.66	53.76	183.07	83.60	0.83	11.10	12065209058091700.00	13.45	36.74	125	UBP12 x 12
5.20	2.98	126.93	42.17	144.63	65.30	0.83	13.50	9011668494006780.00	7.09	29.45	100	UBP12 x 12
5.16	2.95	107.40	35.09	121.44	54.01	0.83	15.70	7261468414592240.00	4.37	24.96	84	UBP12 x 12
5.12	2.92	93.37	30.27	104.96	46.50	0.83	17.70	6144319427731900.00	2.93	21.70	74	UBP12 x 12
5.08	2.89	80.55	25.81	89.70	39.54	0.83	20.20	5138885339557590.00	1.92	18.76	62	UBP12 x 12
5.04	2.88	74.45	23.74	82.99	36.31	0.83	21.60	4654787445251440.00	1.54	17.36	59	UBP12 x 12
5.04	2.87	67.13	21.24	74.45	32.40	0.83	23.80	4133451251383280.00	1.13	15.50	53	UBP12 x 12
4.17	2.46	58.95	19.77	66.52	30.39	0.83	15.60	2260364783414100.00	1.97	16.74	57	UBP10 x 10
4.17	2.43	49.25	16.29	55.17	24.96	0.83	18.40	1809781358713760.00	1.16	14.01	48	UBP10 x 10
4.13	2.41	43.75	14.34	48.76	21.97	0.83	20.50	1567732411560680.00	0.82	12.43	42	UBP10 x 10
3.37	1.96	30.08	10.01	33.99	15.38	0.83	15.80	588365133079782.00	0.79	10.65	36	UBP8 x 8

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Corus Construction Centre

The Corus Construction Centre is the name of the new technical advisory service at Corus providing full product and applications support for carbon steel, stainless steel and aluminium in construction.



From buildings to bridges, towers to tunnels foundations to flotation structure, whatever your requirement we have the knowledge and experience to help realise your creative concepts.

Staffed by a multidisciplinary team of construction professionals the Corus Construction Centre is there to provide designers with guidance for the selection, usage, integration and recycling of ferrous and non-ferrous construction metals.

By using this service the Corus Construction Centre can help you to speed up the design process, facilitate innovation and encourage more efficient solutions.

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