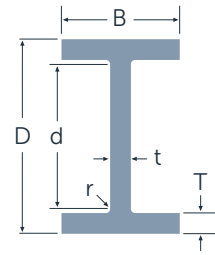
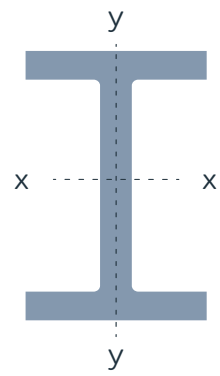


British Steel, the only UK manufacturer of structural sections, is BES 6001 certified, guaranteeing commitment to responsibly sourced materials. Our structural sections are CE marked and tested to the highest standards, providing quality and assurance for the UK construction market.



#### Universal Beams (UB) sizes

Designation  Serial size	Mass per metre  kg/m	Depth of section  D mm	Width of section  B mm	Thickness		Root radius  r mm	Depth between fillets  d mm	Ratios for local buckling		Second moment of area I		Radius of gyration i	
				of web  t mm	of flange  T mm			Flange	Web	Axis	Axis	Axis	Axis
				B/2T	d/t			x-x cm <sup>4</sup>	y-y cm <sup>4</sup>	x-x cm	y-y cm		
127 x 76 x 13	13.0	127.0	76.0	4.0	7.6	7.6	96.6	5.00	24.2	473	56	5.35	1.84
152 x 89 x 16	16.0	152.4	88.7	4.5	7.7	7.6	121.8	5.76	27.1	834	90	6.41	2.10
178 x 102 x 19	19.0	177.8	101.2	4.8	7.9	7.6	146.8	6.41	30.6	1356	137	7.48	2.37
203 x 102 x 23	23.1	203.2	101.8	5.4	9.3	7.6	169.4	5.47	31.4	2105	164	8.46	2.36
203 x 133 x 25	25.1	203.2	133.2	5.7	7.8	7.6	172.4	8.54	30.2	2340	308	8.56	3.10
203 x 133 x 30	30.0	206.8	133.9	6.4	9.6	7.6	172.4	6.97	26.9	2896	385	8.71	3.17
254 x 102 x 22	22.0	254.0	101.6	5.7	6.8	7.6	225.2	7.47	39.5	2841	119	10.10	2.06
254 x 102 x 25	25.2	257.2	101.9	6.0	8.4	7.6	225.2	6.07	37.5	3415	149	10.30	2.15
254 x 102 x 28	28.3	260.4	102.2	6.3	10.0	7.6	225.2	5.11	35.7	4005	179	10.50	2.22
254 x 146 x 31	31.1	251.4	146.1	6.0	8.6	7.6	219.0	8.49	36.5	4413	448	10.50	3.36
254 x 146 x 37	37.0	256.0	146.4	6.3	10.9	7.6	219.0	6.72	34.8	5537	571	10.80	3.48
254 x 146 x 43	43.0	259.6	147.3	7.2	12.7	7.6	219.0	5.80	30.4	6544	677	10.90	3.52
305 x 102 x 25	24.8	305.1	101.6	5.8	7.0	7.6	275.9	7.26	47.6	4455	123	11.90	1.97
305 x 102 x 28	28.2	308.7	101.8	6.0	8.8	7.6	275.9	5.78	46.0	5366	155	12.20	2.08
305 x 102 x 33	32.8	312.7	102.4	6.6	10.8	7.6	275.9	4.74	41.8	6501	194	12.50	2.15
305 x 127 x 37	37.0	304.4	123.4	7.1	10.7	8.9	265.2	5.77	37.4	7171	336	12.30	2.67
305 x 127 x 42	41.9	307.2	124.3	8.0	12.1	8.9	265.2	5.14	33.2	8196	389	12.40	2.70
305 x 127 x 48	48.1	311.0	125.3	9.0	14.0	8.9	265.2	4.48	29.5	9575	461	12.50	2.74
305 x 165 x 40	40.3	303.4	165.0	6.0	10.2	8.9	265.2	8.09	44.2	8503	764	12.90	3.86
305 x 165 x 46	46.1	306.6	165.7	6.7	11.8	8.9	265.2	7.02	39.6	9899	896	13.00	3.90
305 x 165 x 54	54.0	310.4	166.9	7.9	13.7	8.9	265.2	6.09	33.6	11696	1063	13.00	3.93
356 x 171 x 45	45.0	351.4	171.1	7.0	9.7	12.7	306.6	8.82	43.8	12195	811	14.50	3.75
356 x 171 x 51	51.0	355.0	171.5	7.4	11.5	12.7	306.6	7.46	41.4	14265	969	14.80	3.85
356 x 171 x 57	57.0	358.0	172.2	8.1	13.0	12.7	306.6	6.62	37.9	16168	1109	14.90	3.90
356 x 171 x 67	67.1	363.4	173.2	9.1	15.7	12.7	306.6	5.52	33.7	19592	1362	15.10	3.98
406 x 140 x 39	39.0	398.0	141.8	6.4	8.6	12.7	355.4	8.24	55.5	12679	410	15.90	2.86
406 x 140 x 46	46.0	403.2	142.2	6.8	11.2	12.7	355.4	6.35	52.3	15856	538	16.40	3.02
406 x 140 x 53	53.3	406.6	143.3	7.9	12.9	12.7	355.4	5.55	45.0	18454	635	16.40	3.05
406 x 178 x 54	54.1	402.6	177.7	7.7	10.9	12.7	355.4	8.15	46.2	18893	1022	16.50	3.84
406 x 178 x 60	60.1	406.4	177.9	7.9	12.8	12.7	355.4	6.95	45.0	21767	1203	16.80	3.95
406 x 178 x 67	67.1	409.4	178.8	8.8	14.3	12.7	355.4	6.25	40.4	24502	1365	16.90	3.98
406 x 178 x 74	74.2	412.8	179.5	9.5	16.0	12.7	355.4	5.61	37.4	27481	1546	17.00	4.03
406 x 178 x 85	85.3	417.2	181.9	10.9	18.2	12.7	355.4	5.00	32.6	31874	1831	17.10	4.10
457 x 152 x 52	52.3	449.8	152.4	7.6	10.9	12.7	402.6	6.99	53.0	21586	645	17.90	3.10
457 x 152 x 60	59.8	454.6	152.9	8.1	13.3	12.7	402.6	5.75	49.7	25717	795	18.30	3.22
457 x 152 x 67	67.2	458.0	153.8	9.0	15.0	12.7	402.6	5.13	44.7	29144	913	18.40	3.26
457 x 152 x 74	74.2	462.0	154.4	9.6	17.0	12.7	402.6	4.54	41.9	32891	1047	18.60	3.32
457 x 152 x 82	82.1	465.8	155.3	10.5	18.9	12.7	402.6	4.11	38.3	36806	1185	18.70	3.36
457 x 191 x 67	67.1	453.4	189.9	8.5	12.7	12.7	402.6	7.48	47.4	29597	1452	18.60	4.11
457 x 191 x 74	74.3	457.0	190.4	9.0	14.5	12.7	402.6	6.57	44.7	33536	1672	18.80	4.19
457 x 191 x 82	82.0	460.0	191.3	9.9	16.0	12.7	402.6	5.98	40.7	37268	1871	18.80	4.22
457 x 191 x 89	89.3	463.4	191.9	10.5	17.7	12.7	402.6	5.42	38.3	41232	2090	19.00	4.28

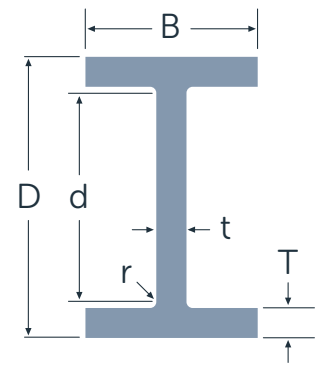


## Universal Beams (UB) sizes

Elastic modulus		Plastic modulus		Buckling parameter	Torsional index	Warping constant	Torsional constant	Area of section	Designation
Axis	Axis	Axis	Axis						
x-x	y-y	x-x	y-y	u	x	H	J	cm <sup>2</sup>	Serial size
cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>			dm <sup>6</sup>	cm <sup>4</sup>		
75	15	84	23	0.895	16.3	0.0020	2.85	16.5	127 x 76 x 13
109	20	123	31	0.890	19.6	0.0047	3.56	20.3	152 x 89 x 16
153	27	171	42	0.888	22.6	0.0099	4.41	24.3	178 x 102 x 19
207	32	234	50	0.888	22.5	0.0154	7.02	29.4	203 x 102 x 23
230	46	258	71	0.877	25.6	0.0294	5.96	32.0	203 x 133 x 25
280	57	314	88	0.881	21.5	0.0374	10.30	38.2	203 x 133 x 30
224	23	259	37	0.856	36.4	0.0182	4.15	28.0	254 x 102 x 22
266	29	306	46	0.866	31.5	0.0230	6.42	32.0	254 x 102 x 25
308	35	353	55	0.874	27.5	0.0280	9.57	36.1	254 x 102 x 28
351	61	393	94	0.880	29.6	0.0660	8.55	39.7	254 x 146 x 31
433	78	483	119	0.890	24.3	0.0857	15.30	47.2	254 x 146 x 37
504	92	566	141	0.891	21.2	0.1030	23.90	54.8	254 x 146 x 43
292	24	342	39	0.846	43.4	0.0273	4.77	31.6	305 x 102 x 25
348	31	403	48	0.859	37.4	0.0349	7.40	35.9	305 x 102 x 28
416	38	481	60	0.866	31.6	0.0442	12.20	41.8	305 x 102 x 33
471	54	539	85	0.872	29.7	0.0725	14.80	47.2	305 x 127 x 37
534	63	614	98	0.872	26.5	0.0846	21.10	53.4	305 x 127 x 42
616	74	711	116	0.873	23.3	0.1020	31.80	61.2	305 x 127 x 48
560	93	623	142	0.889	31.0	0.1640	14.70	51.3	305 x 165 x 40
646	108	720	166	0.891	27.1	0.1950	22.20	58.7	305 x 165 x 46
754	127	846	196	0.889	23.6	0.2340	34.80	68.8	305 x 165 x 54
694	95	783	147	0.875	35.8	0.2370	16.90	57.8	356 x 171 x 45
804	113	904	174	0.882	31.4	0.2860	25.10	65.4	356 x 171 x 51
903	129	1018	199	0.883	28.3	0.3300	34.90	73.0	356 x 171 x 57
1078	157	1219	243	0.887	24.0	0.4120	57.70	86.0	356 x 171 x 67
637	58	733	91	0.859	45.9	0.1550	11.60	50.1	406 x 140 x 39
787	76	897	118	0.872	38.0	0.2070	20.20	59.1	406 x 140 x 46
908	89	1040	139	0.871	33.4	0.2460	30.40	68.4	406 x 140 x 53
939	115	1064	179	0.872	37.4	0.3920	24.30	69.4	406 x 178 x 54
1071	135	1209	209	0.880	33.1	0.4660	34.80	77.0	406 x 178 x 60
1197	153	1355	237	0.880	30.0	0.5330	47.90	86.0	406 x 178 x 67
1331	172	1510	267	0.882	27.2	0.6080	64.90	95.0	406 x 178 x 74
1528	201	1742	313	0.882	24.1	0.7290	95.70	109.0	406 x 178 x 85
960	85	1106	134	0.860	42.8	0.3110	22.60	67.1	457 x 152 x 52
1131	104	1298	163	0.869	36.8	0.3870	35.40	76.7	457 x 152 x 60
1273	119	1463	187	0.869	33.0	0.4480	49.60	86.0	457 x 152 x 67
1424	136	1637	213	0.873	29.7	0.5180	68.20	95.0	457 x 152 x 74
1580	153	1822	241	0.874	27.0	0.5920	92.00	105.0	457 x 152 x 82
1306	153	1481	238	0.873	37.2	0.7050	38.70	86.0	457 x 191 x 67
1468	176	1663	272	0.878	33.4	0.8180	53.60	95.1	457 x 191 x 74
1620	196	1842	304	0.878	30.5	0.9220	71.40	105.0	457 x 191 x 82
1780	218	2024	339	0.880	27.9	1.0400	93.30	114.0	457 x 191 x 89

Dimensions and properties to BS EN 10365:2017

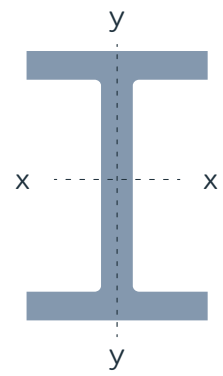




### Universal Beams (UB) sizes

Designation  Serial size	Mass per metre  kg/m	Depth of section  D mm	Width of section  B mm	Thickness		Root radius  r mm	Depth between fillets  d mm	Ratios for local buckling		Second moment of area  I		Radius of gyration  i	
				of web  t mm	of flange  T mm			Flange  B/2T	Web  d/t	Axis	Axis	Axis	Axis
								cm <sup>4</sup>	cm <sup>4</sup>	cm	cm		
457 x 191 x 98	98.3	467.2	192.8	11.4	19.6	12.7	402.6	4.92	35.3	45944	2348	19.1	4.32
457 x 191 x 106	105.8	469.2	194.0	12.6	20.6	12.7	402.6	4.71	32.0	49090	2515	19.1	4.31
457 x 191 x 133	133.3	480.6	196.7	15.3	26.3	12.7	402.6	3.74	26.3	64058	3350	19.4	4.43
457 x 191 x 161	161.4	492.0	199.4	18.0	32.0	12.7	402.6	3.12	22.4	79996	4251	19.7	4.54
533 x 165 x 66	65.7	524.7	165.1	8.9	11.4	12.7	476.5	7.24	53.5	35028	859	20.5	3.20
533 x 165 x 74	74.7	529.1	165.9	9.7	13.6	12.7	476.5	6.10	49.1	41058	1040	20.8	3.30
533 x 165 x 85	84.8	534.9	166.5	10.3	16.5	12.7	476.5	5.05	46.3	48631	1275	21.2	3.44
533 x 210 x 82	82.2	528.3	208.8	9.6	13.2	12.7	476.5	7.91	49.6	47539	2007	21.3	4.38
533 x 210 x 92	92.1	533.1	209.3	10.1	15.6	12.7	476.5	6.71	47.2	55227	2389	21.7	4.51
533 x 210 x 101	101.0	536.7	210.0	10.8	17.4	12.7	476.5	6.03	44.1	61519	2692	21.9	4.57
533 x 210 x 109	109.0	539.5	210.8	11.6	18.8	12.7	476.5	5.61	41.1	66822	2943	21.9	4.60
533 x 210 x 122	122.0	544.5	211.9	12.7	21.3	12.7	476.5	4.97	37.5	76043	3388	22.1	4.67
533 x 210 x 138	138.3	549.1	213.9	14.7	23.6	12.7	476.5	4.53	32.4	86088	3864	22.1	4.68
533 x 312 x 150	150.6	542.5	312.0	12.7	20.3	12.7	476.5	7.68	37.5	100633	10285	22.9	7.32
533 x 312 x 182	181.5	550.7	314.5	15.2	24.4	12.7	476.5	6.44	31.3	123222	12667	23.1	7.40
533 x 312 x 219	218.7	560.3	317.4	18.3	29.2	12.7	476.5	5.43	26.0	150976	15589	23.3	7.48
533 x 312 x 272	273.2	577.1	320.2	21.1	37.6	12.7	476.5	4.26	22.6	198578	20615	23.9	7.70
610 x 178 x 82	81.8	598.6	177.9	10.0	12.8	20.0	533.0	6.95	53.3	57487	1209	23.3	3.37
610 x 178 x 92	92.2	603.0	178.8	10.9	15.0	20.0	533.0	5.96	48.9	66195	1439	23.5	3.47
610 x 178 x 100	100.3	607.4	179.2	11.3	17.2	20.0	533.0	5.21	47.2	74145	1661	23.9	3.58
610 x 229 x 101	101.2	602.6	227.6	10.5	14.8	20.0	533.0	7.69	50.8	77398	2917	24.3	4.72
610 x 229 x 113	113.0	607.6	228.2	11.1	17.3	20.0	533.0	6.60	48.0	88936	3437	24.7	4.85
610 x 229 x 125	125.1	612.2	229.0	11.9	19.6	20.0	533.0	5.84	44.8	100228	3935	24.9	4.94
610 x 229 x 140	139.9	617.2	230.2	13.1	22.1	20.0	533.0	5.21	40.7	113395	4509	25.1	5.00
610 x 305 x 149	149.2	612.4	304.8	11.8	19.7	20.0	533.0	7.74	45.2	126738	9309	25.8	6.98
610 x 305 x 179	179.0	620.2	307.1	14.1	23.6	20.0	533.0	6.51	37.8	153886	11410	25.9	7.06
610 x 305 x 238	238.1	635.8	311.4	18.4	31.4	20.0	533.0	4.96	29.0	210333	15839	26.3	7.21
686 x 254 x 125	125.2	677.9	253.0	11.7	16.2	20.0	605.5	7.81	51.8	119448	4385	27.2	5.22
686 x 254 x 140	140.1	683.5	253.7	12.4	19.0	20.0	605.5	6.68	48.8	137723	5186	27.7	5.37
686 x 254 x 152	152.4	687.5	254.5	13.2	21.0	20.0	605.5	6.06	45.9	151811	5786	27.9	5.44
686 x 254 x 170	170.2	692.9	255.8	14.5	23.7	20.0	605.5	5.40	41.8	171782	6633	28.1	5.51
762 x 267 x 134	133.9	750.0	264.4	12.0	15.5	20.0	679.0	8.53	56.6	152061	4790	29.8	5.28
762 x 267 x 147	146.9	754.0	265.2	12.8	17.5	20.0	679.0	7.58	53.0	169871	5457	30.0	5.38
762 x 267 x 173	173.0	762.2	266.7	14.3	21.6	20.0	679.0	6.17	47.5	206651	6852	30.5	5.56
762 x 267 x 197	196.8	769.8	268.0	15.6	25.4	20.0	679.0	5.28	43.5	241326	8177	31.0	5.70
838 x 292 x 176	175.9	834.9	291.7	14.0	18.8	20.0	757.3	7.76	54.1	247120	7800	33.2	5.89
838 x 292 x 194	193.8	840.7	292.4	14.7	21.7	20.0	757.3	6.74	51.5	280274	9068	33.6	6.05
838 x 292 x 226	226.5	850.9	293.8	16.1	26.8	20.0	757.3	5.48	47.0	340802	11361	34.3	6.27
914 x 305 x 201	200.9	903.0	303.3	15.1	20.2	19.1	824.4	7.51	54.6	325254	9423	35.7	6.07
914 x 305 x 224	224.2	910.4	304.1	15.9	23.9	19.1	824.4	6.36	51.8	376414	11236	36.3	6.27
914 x 305 x 253	253.4	918.4	305.5	17.3	27.9	19.1	824.4	5.47	47.7	436305	13301	36.8	6.42
914 x 305 x 289	289.1	926.6	307.7	19.5	32.0	19.1	824.4	4.81	42.3	504187	15597	37.0	6.51



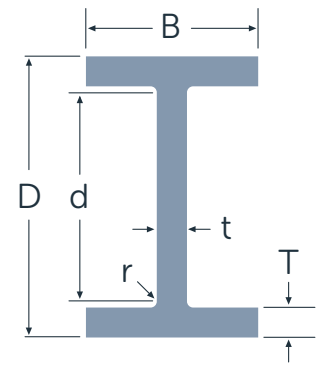


## Universal Beams (UB) sizes

Elastic modulus		Plastic modulus		Buckling parameter	Torsional index	Warping constant	Torsional constant	Area of section	Designation
Axis	Axis	Axis	Axis						
x-x	y-y	x-x	y-y	u	x	H	J	cm <sup>2</sup>	Serial size
cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>			dm <sup>6</sup>	cm <sup>4</sup>		
1967	244	2243	379	0.881	25.5	1.180	124.0	126.0	457 x 191 x 98
2093	259	2399	406	0.878	24.2	1.270	149.0	135.0	457 x 191 x 106
2666	341	3080	535	0.880	19.4	1.730	298.0	170.0	457 x 191 x 133
3252	426	3789	672	0.882	16.3	2.250	524.0	206.0	457 x 191 x 161
1335	104	1561	166	0.847	47.0	0.566	32.0	83.7	533 x 165 x 66
1552	125	1808	200	0.853	41.1	0.691	47.9	95.2	533 x 165 x 74
1818	153	2107	243	0.862	35.5	0.857	73.8	108.0	533 x 165 x 85
1800	192	2059	300	0.864	41.6	1.330	51.5	105.0	533 x 210 x 82
2072	228	2360	355	0.872	36.5	1.600	75.7	117.0	533 x 210 x 92
2292	256	2612	399	0.874	33.2	1.810	101.0	129.0	533 x 210 x 101
2477	279	2829	436	0.875	30.9	1.990	126.0	139.0	533 x 210 x 109
2793	320	3196	500	0.877	27.6	2.320	178.0	155.0	533 x 210 x 122
3136	361	3613	568	0.873	25.0	2.670	250.0	176.0	533 x 210 x 138
3710	659	4142	1009	0.885	27.8	7.010	216.0	192.0	533 x 312 x 150
4475	806	5030	1237	0.885	23.4	8.770	373.0	231.0	533 x 312 x 182
5389	982	6109	1514	0.884	19.8	11.000	642.0	279.0	533 x 312 x 219
6882	1288	7859	1985	0.890	15.9	15.000	1288.0	348.0	533 x 312 x 272
1921	136	2252	220	0.846	45.3	1.040	57.0	106.0	610 x 178 x 82
2196	161	2569	260	0.850	40.4	1.240	81.0	120.0	610 x 178 x 92
2441	185	2844	298	0.857	36.8	1.450	107.0	130.0	610 x 178 x 100
2569	256	2939	402	0.865	40.9	2.520	86.7	131.0	610 x 229 x 101
2927	301	3339	471	0.872	36.4	2.990	123.0	146.0	610 x 229 x 113
3274	344	3734	537	0.875	32.9	3.450	168.0	161.0	610 x 229 x 125
3674	392	4200	614	0.876	29.6	3.990	233.0	180.0	610 x 229 x 140
4139	611	4625	938	0.887	32.2	8.180	208.0	191.0	610 x 305 x 149
4962	743	5578	1145	0.886	27.3	10.200	351.0	229.0	610 x 305 x 179
6616	1017	7517	1575	0.886	21.1	14.500	803.0	304.0	610 x 305 x 238
3524	347	4040	544	0.863	42.6	4.800	124.0	161.0	686 x 254 x 125
4030	409	4604	640	0.869	37.7	5.720	179.0	180.0	686 x 254 x 140
4416	455	5047	712	0.872	34.7	6.430	231.0	196.0	686 x 254 x 152
4958	519	5677	813	0.873	31.2	7.430	322.0	218.0	686 x 254 x 170
4055	362	4683	571	0.855	48.7	6.460	125.0	172.0	762 x 267 x 134
4506	412	5195	648	0.859	44.4	7.400	166.0	188.0	762 x 267 x 147
5422	514	6237	809	0.865	37.5	9.400	277.0	221.0	762 x 267 x 173
6270	610	7206	960	0.869	32.8	11.300	417.0	252.0	762 x 267 x 197
5920	535	6836	843	0.857	46.0	13.000	227.0	225.0	838 x 292 x 176
6668	620	7668	974	0.863	41.3	15.200	312.0	248.0	838 x 292 x 194
8010	773	9183	1212	0.870	34.7	19.300	522.0	289.0	838 x 292 x 226
7204	621	8352	982	0.854	46.8	18.400	291.0	256.0	914 x 305 x 201
8269	739	9535	1163	0.861	41.3	22.100	422.0	286.0	914 x 305 x 224
9501	871	10942	1370	0.866	36.2	26.400	626.0	323.0	914 x 305 x 253
10883	1014	12570	1601	0.867	31.9	31.200	926.0	368.0	914 x 305 x 289

Dimensions and properties to BS EN 10365:2017

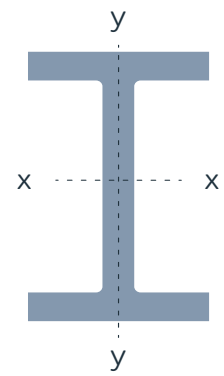




### Universal Beams (UB) sizes

Designation  Serial size	Mass per metre  kg/m	Depth of section  D mm	Width of section  B mm	Thickness		Root radius  r mm	Depth between fillets  d mm	Ratios for local buckling		Second moment of area I		Radius of gyration i	
				of web  t mm	of flange  T mm			Flange	Web	Axis	Axis	Axis	Axis
								B/2T	d/t	x-x cm <sup>4</sup>	y-y cm <sup>4</sup>	x-x cm	y-y cm
914 x 419 x 343	343.3	911.8	418.5	19.4	32.0	24.1	799.6	6.54	41.2	625780	39156	37.8	9.46
914 x 419 x 388	388.0	921.0	420.5	21.4	36.6	24.1	799.6	5.74	37.4	719635	45438	38.2	9.59
1016 x 305 x 222	222.0	970.3	300.0	16.0	21.1	30.0	868.1	7.11	54.3	407961	9546	38.0	5.81
1016 x 305 x 249	248.7	980.1	300.0	16.5	26.0	30.0	868.1	5.77	52.6	481192	11754	39.0	6.09
1016 x 305 x 272	272.3	990.1	300.0	16.5	31.0	30.0	868.1	4.84	52.6	553974	14004	40.0	6.35
1016 x 305 x 314	314.3	999.9	300.0	19.1	35.9	30.0	868.1	4.18	45.5	644063	16232	40.1	6.37
1016 x 305 x 349	349.4	1008.1	302.0	21.1	40.0	30.0	868.1	3.78	41.1	723131	18460	40.3	6.44
1016 x 305 x 393	392.7	1015.9	303.0	24.4	43.9	30.0	868.1	3.45	35.6	807503	20496	40.2	6.40
1016 x 305 x 437	437.0	1026.1	305.4	26.9	49.0	30.0	868.1	3.12	32.3	910322	23447	40.4	6.49
1016 x 305 x 487	486.7	1036.3	308.5	30.0	54.1	30.0	868.1	2.85	28.9	1021884	26721	40.6	6.57





## Universal Beams (UB) sizes

Elastic modulus		Plastic modulus		Buckling parameter	Torsional index	Warping constant	Torsional constant	Area of section	Designation
Axis	Axis	Axis	Axis						
x-x	y-y	x-x	y-y	u	x	H	J	cm <sup>2</sup>	Serial size
cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>			dm <sup>6</sup>	cm <sup>4</sup>		
13726	1871	15478	2889	0.883	30.1	75.8	1193	437	914 x 419 x 343
15627	2161	17666	3340	0.885	26.7	88.9	1734	494	914 x 419 x 388
8409	636	9808	1019	0.850	45.7	21.5	390	283	1016 x 305 x 222
9819	784	11350	1244	0.861	39.8	26.8	582	317	1016 x 305 x 249
11190	934	12827	1469	0.873	35.0	32.2	835	347	1016 x 305 x 272
12883	1082	14850	1712	0.872	30.7	37.7	1264	400	1016 x 305 x 314
14346	1223	16593	1940	0.872	27.9	43.3	1718	445	1016 x 305 x 349
15897	1353	18538	2167	0.868	25.5	48.4	2330	500	1016 x 305 x 393
17743	1535	20769	2467	0.868	23.1	56.0	3185	557	1016 x 305 x 437
19722	1732	23208	2799	0.867	21.1	64.4	4299	620	1016 x 305 x 487

Dimensions and properties to BS EN 10365:2017

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