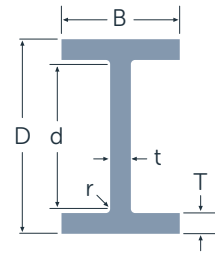
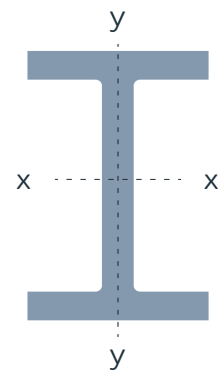


British Steel, the only UK manufacturer of structural sections, is BES 6001 certified, guaranteeing commitment to responsibly sourced materials. Our structural sections are CE marked and tested to the highest standards, providing quality and assurance for the UK construction market.



Universal Beams (UB) sizes

Designation	Mass per metre	Depth of section	Width of section	Thickness		Root radius	Depth between fillets	Ratios for local buckling		Second moment of area		Radius of gyration	
				of web	of flange			Flange	Web	Axis	Axis	Axis	Axis
				t	T								
Serial size	kg/m	D	B	t	T	r	d			cm ⁴	cm ⁴	cm	cm
1016x305x487	486.7	1,036.3	308.5	30.0	54.1	30.0	868.1	2.02	28.9	1,021,884	26,721	40.6	6.57
1016x305x437	437.0	1,026.1	305.4	26.9	49.0	30.0	868.1	2.23	32.3	910,322	23,447	40.4	6.49
1016x305x393	392.7	1,015.9	303.0	24.4	43.9	30.0	868.1	2.49	35.6	807,503	20,496	40.2	6.40
1016x305x349	349.4	1,008.1	302.0	21.1	40.0	30.0	868.1	2.76	41.1	723,131	18,460	40.3	6.44
1016x305x314	314.3	999.9	300.0	19.1	35.9	30.0	868.1	3.08	45.5	644,063	16,232	40.1	6.37
1016x305x272	272.3	990.1	300.0	16.5	31.0	30.0	868.1	3.60	52.6	553,974	14,004	40.0	6.35
1016x305x249	248.7	980.1	300.0	16.5	26.0	30.0	868.1	4.30	52.6	481,192	11,754	39.0	6.09
1016x305x222	222.0	970.3	300.0	16.0	21.1	30.0	868.1	5.31	54.3	407,961	9,546	38.0	5.81
914x419x388	388.0	921.0	420.5	21.4	36.6	24.1	799.6	4.79	37.4	719,635	45,438	38.2	9.59
914x419x343	343.3	911.8	418.5	19.4	32.0	24.1	799.6	5.48	41.2	625,780	39,156	37.8	9.46
914x305x289	289.1	926.6	307.7	19.5	32.0	19.1	824.4	3.91	42.3	504,187	15,597	37.0	6.51
914x305x253	253.4	918.4	305.5	17.3	27.9	19.1	824.4	4.48	47.7	436,305	13,301	36.8	6.42
914x305x224	224.2	910.4	304.1	15.9	23.9	19.1	824.4	5.23	51.8	376,414	11,236	36.3	6.27
914x305x201	200.9	903.0	303.3	15.1	20.2	19.1	824.4	6.19	54.6	325,254	9,423	35.7	6.07
838x292x226	226.5	850.9	293.8	16.1	26.8	17.8	761.7	4.52	47.3	339,704	11,360	34.3	6.27
838x292x194	193.8	840.7	292.4	14.7	21.7	17.8	761.7	5.58	51.8	279,175	9,066	33.6	6.06
838x292x176	175.9	834.9	291.7	14.0	18.8	17.8	761.7	6.44	54.4	246,021	7,799	33.1	5.90
762x267x197	196.8	769.8	268.0	15.6	25.4	16.5	686.0	4.32	44.0	239,957	8,175	30.9	5.71
762x267x173	173.0	762.2	266.7	14.3	21.6	16.5	686.0	5.08	48.0	205,282	6,850	30.5	5.58
762x267x147	146.9	754.0	265.2	12.8	17.5	16.5	686.0	6.27	53.6	168,502	5,455	30.0	5.40
762x267x134	133.9	750.0	264.4	12.0	15.5	16.5	686.0	7.08	57.2	150,692	4,788	29.7	5.30
686x254x170	170.2	692.9	255.8	14.5	23.7	15.2	615.1	4.45	42.4	170,326	6,630	28.0	5.53
686x254x152	152.4	687.5	254.5	13.2	21.0	15.2	615.1	5.02	46.6	150,355	5,784	27.8	5.46
686x254x140	140.1	683.5	253.7	12.4	19.0	15.2	615.1	5.55	49.6	136,267	5,183	27.6	5.39
686x254x125	125.2	677.9	253.0	11.7	16.2	15.2	615.1	6.51	52.6	117,992	4,383	27.2	5.24
610x305x238	238.1	635.8	311.4	18.4	31.4	16.5	540.0	4.14	29.3	209,471	15,837	26.3	7.23
610x305x179	179.0	620.2	307.1	14.1	23.6	16.5	540.0	5.51	38.3	153,024	11,408	25.9	7.07
610x305x149	149.2	612.4	304.8	11.8	19.7	16.5	540.0	6.60	45.8	125,876	9,308	25.7	7.00
610x229x140	139.9	617.2	230.2	13.1	22.1	12.7	547.6	4.34	41.8	111,777	4,505	25.0	5.03
610x229x125	125.1	612.2	229.0	11.9	19.6	12.7	547.6	4.89	46.0	98,610	3,932	24.9	4.97
610x229x113	113.0	607.6	228.2	11.1	17.3	12.7	547.6	5.54	49.3	87,318	3,434	24.6	4.88
610x229x101	101.2	602.6	227.6	10.5	14.8	12.7	547.6	6.48	52.2	75,780	2,915	24.2	4.75
610x178x100	100.3	607.4	179.2	11.3	17.2	12.7	547.6	4.14	48.5	72,528	1,658	23.8	3.60
610x178x92	92.2	603.0	178.8	10.9	15.0	12.7	547.6	4.75	50.2	64,577	1,436	23.4	3.50
610x178x82	81.8	598.6	177.9	10.0	12.8	12.7	547.6	5.57	54.8	55,869	1,207	23.2	3.40
533x312x272	273.3	577.1	320.2	21.1	37.6	12.7	476.5	3.64	22.6	198,578	20,615	23.9	7.70
533x312x219	218.8	560.3	317.4	18.3	29.2	12.7	476.5	4.69	26.0	150,976	15,589	23.3	7.48
533x312x182	181.5	550.7	314.5	15.2	24.4	12.7	476.5	5.61	31.3	123,222	12,667	23.1	7.40
533x312x150	150.6	542.5	312.0	12.7	20.3	12.7	476.5	6.75	37.5	100,633	10,285	22.9	7.32
533x210x138	138.3	549.1	213.9	14.7	23.6	12.7	476.5	3.68	32.4	86,088	3,864	22.1	4.68
533x210x122	122.0	544.5	211.9	12.7	21.3	12.7	476.5	4.08	37.5	76,043	3,388	22.1	4.67
533x210x109	109.0	539.5	210.8	11.6	18.8	12.7	476.5	4.62	41.1	66,822	2,943	21.9	4.60

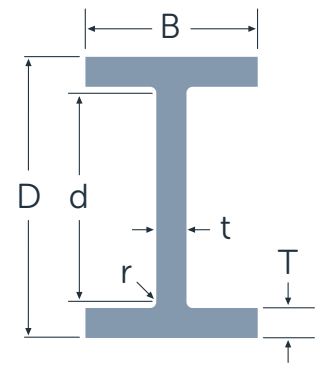


Universal Beams (UB) sizes

Elastic modulus		Plastic modulus		Buckling parameter	Torsional index	Warping constant	Torsional constant	Area of section	Indicative values for S355 steel		Designation
Axis	Axis	Axis	Axis						Mc.y.Rd	Nb.z.Rd*	
x-x	y-y	x-x	y-y	u	x	H	J	cm ²	kNm	kN	Serial size
cm ³	cm ³	cm ³	cm ³			dm ⁶	cm ⁴				
19,722	1,732	23,208	2,799	0.867	21.1	64.4	4,299	620	7,770	15,300	1016x305x487
17,743	1,535	20,769	2,467	0.868	23.1	56.0	3,185	557	6,970	13,700	1016x305x437
15,897	1,353	18,538	2,167	0.868	25.5	48.4	2,330	500	6,200	12,200	1016x305x393
14,346	1,223	16,593	1,940	0.872	27.9	43.3	1,718	445	5,730	11,700	1016x305x349
12,883	1,082	14,850	1,712	0.872	30.7	37.7	1,264	400	5,110	10,100	1016x305x314
11,190	934	12,827	1,469	0.873	35.0	32.2	835	347	4,420	8,470	1016x305x272
9,819	784	11,350	1,244	0.861	39.8	26.8	582	317	3,900	7,510	1016x305x249
8,409	636	9,808	1,019	0.850	45.7	21.5	390	283	3,380	6,440	1016x305x222
15,627	2,161	17,666	3,340	0.885	26.7	88.9	1,734	494	6,110	15,200	914x419x388
13,726	1,871	15,478	2,889	0.883	30.1	75.8	1,193	437	5,350	12,900	914x419x343
10,883	1,014	12,570	1,601	0.867	31.9	31.2	926	368	4,350	9,450	914x305x289
9,501	871	10,942	1,370	0.866	36.2	26.4	626	323	3,760	8,030	914x305x253
8,269	739	9,535	1,163	0.861	41.3	22.1	422	286	3,290	6,880	914x305x224
7,204	621	8,352	982	0.854	46.8	18.4	291	256	2,880	5,960	914x305x201
7,985	773	9,155	1,211	0.870	35.0	19.3	514	289	3,160	7,140	838x292x226
6,641	620	7,640	974	0.862	41.6	15.2	306	247	2,640	5,860	838x292x194
5,893	535	6,808	842	0.856	46.5	13.0	221	224	2,350	5,160	838x292x176
6,234	610	7,167	958	0.869	33.2	11.3	404	251	2,470	5,980	762x267x197
5,387	514	6,198	807	0.864	38.1	9.39	267	220	2,140	5,070	762x267x173
4,470	411	5,156	647	0.858	45.2	7.40	159	187	1,780	4,110	762x267x147
4,018	362	4,644	570	0.854	49.8	6.46	119	171	1,650	3,710	762x267x134
4,916	518	5,631	811	0.872	31.8	7.42	308	217	1,940	5,350	686x254x170
4,374	455	5,001	710	0.871	35.5	6.42	220	194	1,730	4,450	686x254x152
3,987	409	4,558	638	0.868	38.7	5.72	169	178	1,570	4,000	686x254x140
3,481	346	3,994	542	0.862	43.9	4.80	116	159	1,380	3,450	686x254x125
6,589	1,017	7,486	1,574	0.886	21.3	14.5	785	303	2,580	8,620	610x305x238
4,935	743	5,548	1,144	0.886	27.7	10.2	340	228	1,910	6,430	610x305x179
4,111	611	4,594	937	0.886	32.7	8.17	200	190	1,580	5,040	610x305x149
3,622	391	4,142	611	0.875	30.6	3.99	216	178	1,430	4,070	610x229x140
3,221	343	3,676	535	0.873	34.1	3.45	154	159	1,270	3,460	610x229x125
2,874	301	3,281	469	0.870	38.0	2.99	111	144	1,130	3,010	610x229x113
2,515	256	2,881	400	0.864	43.1	2.52	77.0	129	1,020	2,640	610x229x101
2,388	185	2,786	296	0.855	38.7	1.44	95.0	128	963	1,980	610x178x100
2,142	161	2,511	258	0.848	42.8	1.24	71.0	117	891	1,760	610x178x92
1,867	136	2,194	218	0.843	48.5	1.04	48.8	104	777	1,490	610x178x82
6,882	1,288	7,859	1,985	0.890	15.9	15.0	1,288	348	2,720	10,100	533x312x272
5,389	982	6,109	1,514	0.884	19.8	11.0	642	279	2,110	8,040	533x312x219
4,475	806	5,030	1,237	0.885	23.4	8.77	373	231	1,740	6,630	533x312x182
3,710	659	4,142	1,009	0.885	27.8	7.01	216	192	1,430	5,490	533x312x150
3,136	361	3,613	568	0.873	25.0	2.67	250	176	1,250	3,760	533x210x138
2,793	320	3,196	500	0.877	27.6	2.32	178	155	1,100	3,300	533x210x122
2,477	279	2,829	436	0.875	30.9	1.99	126	139	976	2,920	533x210x109

* Values in italics indicate the section is Class 4 in pure compression and allowance has been made in calculating the resistance.

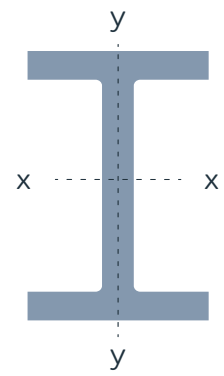




Universal Beams (UB) sizes

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 Cf/tf	Web Cw/tw	Axis x-x cm ⁴	Axis y-y cm ⁴	Axis x-x cm	Axis y-y cm
533x210x101	101.0	536.7	210.0	10.8	17.4	12.7	476.5	4.99	44.1	61,519	2,692	21.9	4.57
533x210x92	92.1	533.1	209.3	10.1	15.6	12.7	476.5	5.57	47.2	55,227	2,389	21.7	4.51
533x210x82	82.2	528.3	208.8	9.6	13.2	12.7	476.5	6.58	49.6	47,539	2,007	21.3	4.38
533x165x85	84.8	534.9	166.5	10.3	16.5	12.7	476.5	3.96	46.3	48,631	1,275	21.2	3.44
533x165x74	74.7	529.1	165.9	9.7	13.6	12.7	476.5	4.81	49.1	41,058	1,040	20.8	3.30
533x165x66	65.7	524.7	165.1	8.9	11.4	12.7	476.5	5.74	53.5	35,028	859	20.5	3.20
457x191x161	161.4	492.0	199.4	18.0	32.0	10.2	407.6	2.52	22.6	79,779	4,250	19.7	4.55
457x191x133	133.3	480.6	196.7	15.3	26.3	10.2	407.6	3.06	26.6	63,841	3,350	19.4	4.44
457x191x106	105.8	469.2	194.0	12.6	20.6	10.2	407.6	3.91	32.3	48,873	2,515	19.0	4.32
457x191x98	98.3	467.2	192.8	11.4	19.6	10.2	407.6	4.11	35.8	45,727	2,347	19.1	4.33
457x191x89	89.3	463.4	191.9	10.5	17.7	10.2	407.6	4.55	38.8	41,015	2,089	19.0	4.29
457x191x82	82.0	460.0	191.3	9.9	16.0	10.2	407.6	5.03	41.2	37,051	1,871	18.8	4.23
457x191x74	74.3	457.0	190.4	9.0	14.5	10.2	407.6	5.55	45.3	33,319	1,671	18.8	4.20
457x191x67	67.1	453.4	189.9	8.5	12.7	10.2	407.6	6.34	48.0	29,380	1,452	18.5	4.12
457x152x82	82.1	465.8	155.3	10.5	18.9	10.2	407.6	3.29	38.8	36,589	1,185	18.7	3.37
457x152x74	74.2	462.0	154.4	9.6	17.0	10.2	407.6	3.66	42.5	32,674	1,047	18.6	3.33
457x152x67	67.2	458.0	153.8	9.0	15.0	10.2	407.6	4.15	45.3	28,927	913	18.4	3.27
457x152x60	59.8	454.6	152.9	8.1	13.3	10.2	407.6	4.68	50.3	25,500	795	18.3	3.23
457x152x52	52.3	449.8	152.4	7.6	10.9	10.2	407.6	5.71	53.6	21,369	645	17.9	3.11
406x178x85	85.3	417.2	181.9	10.9	18.2	10.2	360.4	4.14	33.1	31,703	1,830	17.1	4.11
406x178x74	74.2	412.8	179.5	9.5	16.0	10.2	360.4	4.68	37.9	27,310	1,545	17.0	4.04
406x178x67	67.1	409.4	178.8	8.8	14.3	10.2	360.4	5.23	41.0	24,331	1,365	16.9	3.99
406x178x60	60.1	406.4	177.9	7.9	12.8	10.2	360.4	5.84	45.6	21,596	1,203	16.8	3.97
406x178x54	54.1	402.6	177.7	7.7	10.9	10.2	360.4	6.86	46.8	18,722	1,021	16.5	3.85
406x140x53	53.3	406.6	143.3	7.9	12.9	10.2	360.4	4.46	45.6	18,283	635	16.4	3.06
406x140x46	46.0	403.2	142.2	6.8	11.2	10.2	360.4	5.13	53.0	15,685	538	16.4	3.03
406x140x39	39.0	398.0	141.8	6.4	8.6	10.2	360.4	6.69	56.3	12,508	410	15.9	2.87
356x171x67	67.1	363.4	173.2	9.1	15.7	10.2	311.6	4.58	34.2	19,463	1,362	15.1	3.99
356x171x57	57.0	358.0	172.2	8.1	13.0	10.2	311.6	5.53	38.5	16,038	1,108	14.9	3.91
356x171x51	51.0	355.0	171.5	7.4	11.5	10.2	311.6	6.25	42.1	14,136	968	14.8	3.86
356x171x45	45.0	351.4	171.1	7.0	9.7	10.2	311.6	7.41	44.5	12,066	811	14.5	3.76
305x165x54	54.0	310.4	166.9	7.9	13.7	8.9	265.2	5.15	33.6	11,696	1,063	13.0	3.93
305x165x46	46.1	306.6	165.7	6.7	11.8	8.9	265.2	5.98	39.6	9,899	896	13.0	3.90
305x165x40	40.3	303.4	165.0	6.0	10.2	8.9	265.2	6.92	44.2	8,503	764	12.9	3.86
305x127x48	48.1	311.0	125.3	9.0	14.0	8.9	265.2	3.52	29.5	9,575	461	12.5	2.74
305x127x42	41.9	307.2	124.3	8.0	12.1	8.9	265.2	4.07	33.2	8,196	389	12.4	2.70
305x127x37	37.0	304.4	123.4	7.1	10.7	8.9	265.2	4.60	37.4	7,171	336	12.3	2.67
305x102x33	32.8	312.7	102.4	6.6	10.8	7.6	275.9	3.73	41.8	6,501	194	12.5	2.15
305x102x28	28.2	308.7	101.8	6.0	8.8	7.6	275.9	4.58	46.0	5,366	155	12.2	2.08
305x102x25	24.8	305.1	101.6	5.8	7.0	7.6	275.9	5.76	47.6	4,455	123	11.9	1.97
254x146x43	43.0	259.6	147.3	7.2	12.7	7.6	219.0	4.92	30.4	6,544	677	10.9	3.52
254x146x37	37.0	256.0	146.4	6.3	10.9	7.6	219.0	5.73	34.8	5,537	571	10.8	3.48



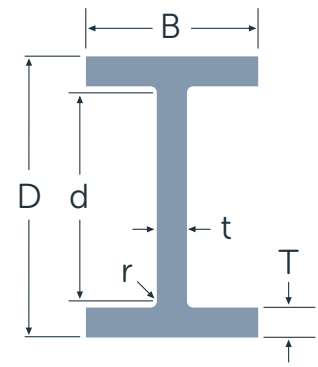


Universal Beams (UB) sizes

Elastic modulus		Plastic modulus		Buckling parameter	Torsional index	Warping constant	Torsional constant	Area of section	Indicative values for S355 steel		Designation
Axis	Axis	Axis	Axis						Mc.y.Rd	Nb.z.Rd*	
x-x	y-y	x-x	y-y	u	x	H	J	cm ²	kNm	kN	Serial size
cm ³	cm ³	cm ³	cm ³			dm ⁶	cm ⁴				
2,292	256	2,612	399	0.874	33.2	1.81	101	129	900	2,690	533x210x101
2,072	228	2,360	355	0.872	36.5	1.60	75.7	117	838	2,440	533x210x92
1,800	192	2,059	300	0.864	41.6	1.33	51.5	105	731	2,010	533x210x82
1,818	153	2,107	243	0.862	35.5	0.857	73.8	108	725	1,570	533x165x85
1,552	125	1,808	200	0.853	41.1	0.691	47.9	95.2	643	1,310	533x165x74
1,335	104	1,561	166	0.847	47.0	0.566	32.0	83.7	554	1,100	533x165x66
3,243	426	3,778	672	0.882	16.4	2.25	515	206	1,300	4,280	457x191x161
2,657	341	3,070	535	0.880	19.6	1.73	292	170	1,060	3,440	457x191x133
2,083	259	2,389	405	0.877	24.4	1.27	146	135	825	2,650	457x191x106
1,957	243	2,232	379	0.881	25.7	1.18	121	125	769	2,460	457x191x98
1,770	218	2,014	338	0.880	28.3	1.04	90.7	114	693	2,220	457x191x89
1,611	196	1,831	304	0.877	30.9	0.922	69.2	104	650	2,010	457x191x82
1,458	176	1,653	272	0.877	33.9	0.818	51.8	94.6	586	1,820	457x191x74
1,296	153	1,471	237	0.872	37.9	0.705	37.1	85.5	522	1,600	457x191x67
1,571	153	1,812	240	0.873	27.4	0.591	89.2	105	624	1,480	457x152x82
1,414	136	1,627	213	0.873	30.1	0.518	65.9	94.5	562	1,310	457x152x74
1,263	119	1,453	187	0.869	33.6	0.448	47.7	85.6	515	1,160	457x152x67
1,122	104	1,287	163	0.868	37.5	0.387	33.8	76.2	458	1,010	457x152x60
950	85	1,096	133	0.859	43.9	0.311	21.4	66.6	391	833	457x152x52
1,520	201	1,733	313	0.881	24.4	0.728	93.0	109	597	2,020	406x178x85
1,323	172	1,501	267	0.882	27.6	0.608	62.8	94.5	533	1,730	406x178x74
1,189	153	1,346	237	0.880	30.5	0.533	46.1	85.5	479	1,540	406x178x67
1,063	135	1,200	209	0.880	33.8	0.466	33.3	76.5	426	1,370	406x178x60
930	115	1,055	178	0.871	38.3	0.392	23.1	69.0	373	1,180	406x178x54
899	89	1,031	139	0.870	34.1	0.246	29.0	67.9	366	827	406x140x53
778	76	888	118	0.871	38.9	0.207	19.0	58.6	315	703	406x140x46
629	58	724	91	0.858	47.5	0.155	10.7	49.7	257	545	406x140x39
1,071	157	1,211	243	0.886	24.4	0.412	55.7	85.5	430	1,540	356x171x67
896	129	1,010	199	0.882	28.8	0.330	33.4	72.6	359	1,270	356x171x57
796	113	896	174	0.881	32.1	0.286	23.8	64.9	318	1,120	356x171x51
687	95	775	147	0.874	36.8	0.237	15.8	57.3	275	952	356x171x45
754	127	846	196	0.889	23.6	0.234	34.8	68.8	300	1,210	305x165x54
646	108	720	166	0.891	27.1	0.195	22.2	58.7	256	1,030	305x165x46
560	93	623	142	0.889	31.0	0.164	14.7	51.3	221	884	305x165x40
616	74	711	116	0.873	23.3	0.102	31.8	61.2	252	621	305x127x48
534	63	614	98	0.872	26.5	0.0846	21.1	53.4	218	529	305x127x42
471	54	539	85	0.872	29.7	0.0725	14.8	47.2	191	459	305x127x37
416	38	481	60	0.866	31.6	0.0442	12.2	41.8	171	277	305x102x33
348	31	403	48	0.859	37.4	0.0349	7.40	35.9	143	224	305x102x28
292	24	342	39	0.846	43.4	0.0273	4.77	31.6	121	179	305x102x25
504	92	566	141	0.891	21.2	0.103	23.9	54.8	201	829	254x146x43
433	78	483	119	0.890	24.3	0.0857	15.3	47.2	171	702	254x146x37

* Values in italics indicate the section is Class 4 in pure compression and allowance has been made in calculating the resistance.

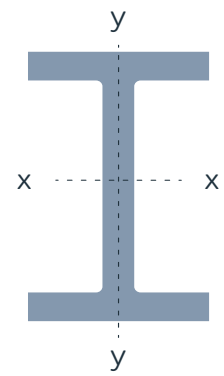




Universal Beams (UB) sizes

Designation	Mass per metre	Depth of section	Width of section	Thickness		Root radius	Depth between fillets	Ratios for local buckling		Second moment of area		Radius of gyration	
				of web	of flange			Flange	Web	Axis	Axis	Axis	Axis
				D	B			t	T	r	d	C _f /t _f	C _w /t _w
Serial size	kg/m	mm	mm	mm	mm	mm	mm			cm ⁴	cm ⁴	cm	cm
254x146x31	31.1	251.4	146.1	6.0	8.6	7.6	219.0	7.26	36.5	4,413	448	10.5	3.36
254x102x28	28.3	260.4	102.2	6.3	10.0	7.6	225.2	4.04	35.7	4,005	179	10.5	2.22
254x102x25	25.2	257.2	101.9	6.0	8.4	7.6	225.2	4.80	37.5	3,415	149	10.3	2.15
254x102x22	22.0	254.0	101.6	5.7	6.8	7.6	225.2	5.93	39.5	2,841	119	10.1	2.06
203x133x30	30.0	206.8	133.9	6.4	9.6	7.6	172.4	5.85	26.9	2,896	385	8.71	3.17
203x133x25	25.1	203.2	133.2	5.7	7.8	7.6	172.4	7.20	30.2	2,340	308	8.56	3.10
203x102x23	23.1	203.2	101.8	5.4	9.3	7.6	169.4	4.37	31.4	2,105	164	8.46	2.36
178x102x19	19.0	177.8	101.2	4.8	7.9	7.6	146.8	5.14	30.6	1,356	137	7.48	2.37
152x89x16	16.0	152.4	88.7	4.5	7.7	7.6	121.8	4.48	27.1	834	90	6.41	2.10
127x76x13	13.0	127.0	76.0	4.0	7.6	7.6	96.6	3.74	24.2	473	56	5.35	1.84





Universal Beams (UB) sizes

Elastic modulus		Plastic modulus		Buckling parameter	Torsional index	Warping constant	Torsional constant	Area of section	Indicative values for S355 steel		Designation
Axis	Axis	Axis	Axis						Mc.y.Rd	Nb.z.Rd*	
x-x	y-y	x-x	y-y	u	x	H	J	cm ²	kNm	kN	Serial size
cm ³	cm ³	cm ³	cm ³			dm ⁶	cm ⁴				
351	61	393	94	0.880	29.6	0.0660	8.55	39.7	140	560	254x146x31
308	35	353	55	0.874	27.5	0.0280	9.57	36.1	125	254	254x102x28
266	29	306	46	0.866	31.5	0.0230	6.42	32.0	109	212	254x102x25
224	23	259	37	0.856	36.4	0.0182	4.15	28.0	91.9	172	254x102x22
280	57	314	88	0.881	21.5	0.0374	10.3	38.2	111	493	203x133x30
230	46	258	71	0.877	25.6	0.0294	5.96	32.0	91.6	398	203x133x25
207	32	234	50	0.888	22.5	0.0154	7.02	29.4	83.1	230	203x102x23
153	27	171	42	0.888	22.6	0.0099	4.41	24.3	60.7	192	178x102x19
109	20	123	31	0.890	19.6	0.0047	3.56	20.3	43.7	129	152x89x16
75	15	84	23	0.895	16.3	0.0020	2.85	16.5	29.9	82.4	127x76x13

Dimensions and properties to BS4-1

* Values in italics indicate the section is Class 4 in pure compression and allowance has been made in calculating the resistance.

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