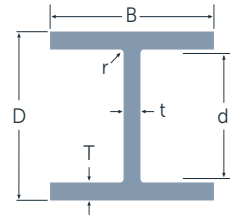
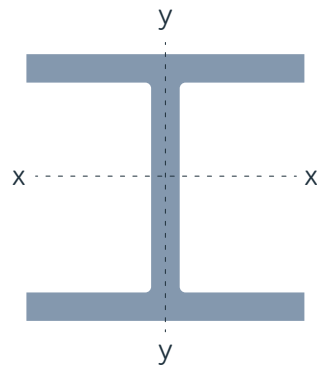


British Steel, the only UK manufacturer of structural sections, is BES 6001 certified, guaranteeing commitment to responsibly sourced materials. Our structural sections are CE marked and tested to the highest standards, providing quality and assurance for the UK construction market.



## Universal bearing piles (UBP) 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 I		Radius of gyration i	
				of web	of flange			Flange	Web	Axis	Axis	Axis	Axis
				D	B			t	T	r	d	B/2T	d/t
Serial size	kg/m	mm	mm	mm	mm	mm	mm			cm <sup>4</sup>	cm <sup>4</sup>	cm	cm
203 x 203 x 45	44.9	200.2	205.9	9.5	9.5	10.2	160.8	10.80	16.9	4100	1384	8.46	4.92
203 x 203 x 54	53.9	204.0	207.7	11.3	11.4	10.2	160.8	9.11	14.2	5027	1705	8.55	4.98
254 x 254 x 63	63.0	247.1	256.6	10.6	10.7	20.0	185.7	12.00	17.5	9097	3019	10.50	6.06
254 x 254 x 71	71.0	249.7	258.0	12.0	12.0	20.0	185.7	10.80	15.5	10307	3442	10.60	6.10
254 x 254 x 85	85.1	254.3	260.4	14.4	14.3	20.0	185.7	9.10	12.9	12521	4219	10.60	6.18
305 x 305 x 79	78.9	299.3	306.4	11.0	11.1	20.0	237.1	13.80	21.6	16700	5329	12.80	7.23
305 x 305 x 88	88.0	301.7	307.8	12.4	12.3	20.0	237.1	12.50	19.1	18680	5987	12.80	7.26
305 x 305 x 95	94.9	303.7	308.7	13.3	13.3	20.0	237.1	11.60	17.8	20300	6531	12.90	7.30
305 x 305 x 110	110.0	307.9	310.7	15.3	15.4	20.0	237.1	10.10	15.5	23818	7712	13.00	7.38
305 x 305 x 126	126.1	312.3	312.9	17.5	17.6	20.0	237.1	8.89	13.5	27663	9005	13.10	7.45
305 x 305 x 149	149.1	318.5	316.0	20.6	20.7	20.0	237.1	7.63	11.5	33322	10914	13.20	7.55
305 x 305 x 186	186.0	328.3	320.9	25.5	25.6	2.0	273.1	6.27	10.7	42254	14138	13.40	7.76
305 x 305 x 223	222.9	337.9	325.7	30.3	30.4	20.0	237.1	5.36	7.8	52954	17583	13.60	7.85
356 x 368 x 109	108.9	346.4	371.0	12.8	12.9	20.0	280.6	14.40	21.9	30977	10989	14.90	8.85
356 x 368 x 133	133.0	352.0	373.8	15.6	15.7	20.0	280.6	11.90	18.0	38329	13683	15.00	8.95
356 x 368 x 152	152.0	356.4	376.0	17.8	17.9	20.0	280.6	10.50	15.8	44317	15880	15.10	9.02
356 x 368 x 174	173.9	361.4	378.5	20.3	20.4	20.0	280.6	9.28	13.8	51355	18467	15.20	9.10



## Universal bearing piles (UBP) 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>		
410	134	459	206	0.827	18.6	0.126	19.2	57.2	203 x 203 x 45
493	164	557	252	0.827	15.8	0.158	32.7	68.7	203 x 203 x 54
736	235	822	362	0.831	18.9	0.422	41.1	82.3	254 x 254 x 63
826	267	926	411	0.830	17.2	0.486	56.5	92.4	254 x 254 x 71
985	324	1115	500	0.828	14.8	0.608	92.6	110.0	254 x 254 x 85
1116	348	1238	533	0.834	22.8	1.110	52.2	102.0	305 x 305 x 79
1238	389	1380	597	0.832	20.8	1.250	70.3	114.0	305 x 305 x 88
1337	423	1494	649	0.832	19.5	1.380	86.9	122.0	305 x 305 x 95
1547	496	1740	763	0.831	17.2	1.650	131.0	142.0	305 x 305 x 110
1772	576	2005	887	0.830	15.3	1.960	193.0	162.0	305 x 305 x 126
2092	691	2390	1068	0.829	13.2	2.420	310.0	191.0	305 x 305 x 149
2574	881	2977	1363	0.826	11.5	3.240	520.0	235.0	305 x 305 x 186
3134	1080	3673	1682	0.827	9.41	4.160	977.0	285.0	305 x 305 x 223
1789	592	1979	904	0.825	23.4	3.060	91.2	140.0	356 x 368 x 109
2178	732	2428	1120	0.823	19.7	3.870	160.0	171.0	356 x 368 x 133
2487	845	2789	1295	0.823	17.5	4.550	235.0	195.0	356 x 368 x 152
2842	976	3208	1499	0.822	15.5	5.370	345.0	223.0	356 x 368 x 174

Dimensions and properties to BS EN 10365:2017

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