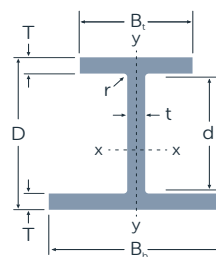


British Steel, the only UK manufacturer of structural sections, is BES 6001 certified, guaranteeing commitment to responsibly sourced materials. Our structural sections are CE and UKCA marked and tested to the highest standards, providing quality and assurance for the UK construction market.

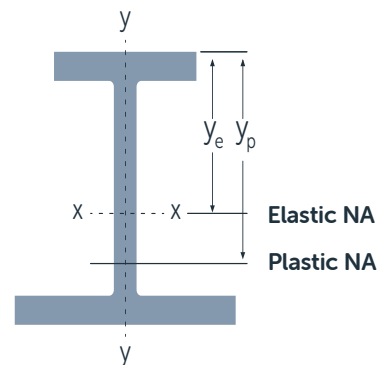


Asymmetric beams (ASB) sizes

Designation	Mass per metre	Depth of section	Width of top flange	Width of bottom flange	Thickness		Root radius	Depth between fillets	Ratios for local buckling			Elastic neutral axis position	Second moment of area	
					of web	of flange			Top flange	Bottom flange	Web		Axis	Axis
					t	T			r	d	Bt/2T		Bb/2T	d/t
Serial size	kg/m	mm	mm	mm	mm	mm	mm	mm				cm	cm ⁴	cm ⁴
280 ASB 74	73.6	272	175	285	10	14	27	190	6.25	10.18	19.00	15.7	12366	3337
280 ASB 100*	100.3	276	184	294	19	16	27	190	5.75	9.19	10.00	15.6	15679	4250
280 ASB 105	104.7	288	176	286	11	22	27	190	4.00	6.50	17.27	16.8	19426	5301
280 ASB 124	123.9	296	178	288	13	26	27	190	3.42	5.54	14.62	17.2	23630	6414
280 ASB 136*	136.4	288	190	300	25	22	27	190	4.32	6.82	7.60	16.2	22390	6262
300 ASB 153*	152.8	310	190	300	27	24	27	208	3.96	6.25	7.70	17.4	28398	6840
300 ASB 155	155.4	326	179	289	16	32	27	208	2.80	4.52	13.00	18.9	34514	7989
300 ASB 185*	184.6	320	195	305	32	29	27	208	3.36	5.26	6.50	18.0	35657	8752
300 ASB 196	195.5	342	183	293	20	40	27	208	2.29	3.66	10.40	19.8	45871	10463
300 ASB 249*	249.2	342	203	313	40	40	27	208	2.54	3.91	5.20	19.2	52920	13194

The elastic and plastic neutral axis position is measured from the upper surface of the beam

* These sections have been specifically developed with thicker webs for improved performance in fire



Asymmetric beams (ASB) sizes

Elastic modulus			Radius of gyration		Plastic neutral axis position	Plastic modulus		Buckling parameter	Torsional index	Warping constant	Torsional constant	Area of section	Designation
Axis x-x	Axis x-x	Axis y-y	Axis x-x	Axis y-y		Axis x-x	Axis y-y						
Top	Bottom	Bottom	x-x	y-y	y _p	x-x	y-y	u	x	H	J	cm ²	Serial size
cm ³	cm ³	cm ³	cm	cm	cm	cm ³	cm ³			dm ⁶	cm ⁴		
788	1075	234	11.4	5.93	21.3	994	404	0.832	15.90	0.338	80.1	95.1	280 ASB 74
1007	1307	289	11.0	5.74	18.4	1310	512	0.816	12.80	0.451	170.0	129.0	280 ASB 100*
1157	1619	371	12.0	6.27	25.2	1456	634	0.832	11.80	0.574	219.0	135.0	280 ASB 105
1372	1906	445	12.2	6.35	25.6	1745	762	0.833	10.40	0.721	347.0	159.0	280 ASB 124
1379	1777	417	11.3	5.98	19.2	1821	742	0.815	10.00	0.710	396.0	175.0	280 ASB 136*
1628	2088	456	12.1	5.93	20.4	2160	816	0.822	9.97	0.895	513.0	195.0	300 ASB 153*
1825	2519	553	13.2	6.35	27.3	2361	949	0.843	9.40	1.070	620.0	198.0	300 ASB 155
1984	2547	574	12.3	6.10	21.0	2658	1030	0.822	8.56	1.200	871.0	235.0	300 ASB 185*
2321	3185	714	13.6	6.48	28.1	3055	1229	0.845	7.86	1.500	1177.0	249.0	300 ASB 196
2757	3528	843	12.9	6.45	22.6	3761	1512	0.825	6.80	2.000	2004.0	317.0	300 ASB 249*

The elastic and plastic neutral axis position is measured from the upper surface of the beam

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