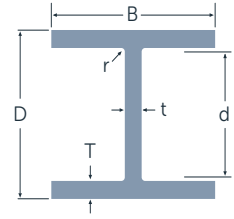
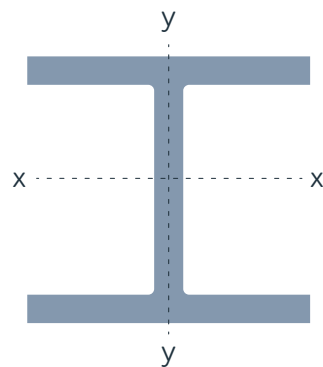


British Steel, the only UK manufacturer of structural sections, is BES 6001 certified, guaranteeing commitment to responsibly sourced materials. Our structural sections are CE marked and tested to the highest standards, providing quality and assurance for the UK construction market.



Universal columns (UC) 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 x-x cm ⁴	Axis y-y cm ⁴	Axis x-x cm	Axis y-y cm
152 x 152 x 23	23.0	152.4	152.2	5.8	6.8	7.6	123.6	11.20	21.30	1250	400	6.54	3.70
152 x 152 x 30	30.0	157.6	152.9	6.5	9.4	7.6	123.6	8.13	19.00	1748	560	6.76	3.83
152 x 152 x 37	37.0	161.8	154.4	8.0	11.5	7.6	123.6	6.71	15.50	2210	706	6.85	3.87
152 x 152 x 44	44.0	166.0	155.9	9.5	13.6	7.6	123.6	5.73	13.00	2703	860	6.94	3.92
152 x 152 x 51	51.2	170.2	157.4	11.0	15.7	7.6	123.6	5.01	11.20	3227	1022	7.04	3.96
203 x 203 x 46	46.1	203.2	203.6	7.2	11.0	12.7	155.8	9.25	21.60	4605	1549	8.82	5.11
203 x 203 x 52	52.0	206.2	204.3	7.9	12.5	12.7	155.8	8.17	19.70	5296	1778	8.91	5.16
203 x 203 x 60	60.0	209.6	205.8	9.4	14.2	12.7	155.8	7.25	16.60	6162	2065	8.95	5.18
203 x 203 x 71	71.0	215.8	206.4	10.0	17.3	12.7	155.8	5.97	15.60	7655	2538	9.18	5.28
203 x 203 x 86	86.1	222.2	209.1	12.7	20.5	12.7	155.8	5.10	12.30	9486	3128	9.28	5.33
203 x 203 x 100	99.6	228.6	210.3	14.5	23.7	12.7	155.8	4.44	10.70	11335	3680	9.43	5.38
203 x 203 x 113	113.5	235.0	212.1	16.3	26.9	12.7	155.8	3.94	9.56	13338	4286	9.59	5.44
203 x 203 x 127	127.5	241.4	213.9	18.1	30.1	12.7	155.8	3.55	8.61	15474	4921	9.74	5.50
254 x 254 x 73	73.1	254.1	254.6	8.6	14.2	20.0	185.7	8.96	21.60	11643	3910	11.10	6.41
254 x 254 x 89	88.9	260.3	256.3	10.3	17.3	20.0	185.7	7.41	18.00	14504	4860	11.20	6.49
254 x 254 x 107	107.1	266.7	258.8	12.8	20.5	20.0	185.7	6.31	14.50	17747	5931	11.30	6.55
254 x 254 x 132	132.0	276.3	261.3	15.3	25.3	20.0	185.7	5.16	12.10	22765	7535	11.60	6.65
254 x 254 x 167	167.1	289.1	265.2	19.2	31.7	20.0	185.7	4.18	9.67	30234	9875	11.90	6.78
305 x 305 x 97	96.9	307.9	305.3	9.9	15.4	20.0	237.1	9.91	23.90	22504	7310	13.40	7.65
305 x 305 x 118	117.9	314.5	307.4	12.0	18.7	20.0	237.1	8.22	19.80	27927	9061	13.60	7.73
305 x 305 x 137	136.9	320.5	309.2	13.8	21.7	20.0	237.1	7.12	17.20	33070	10702	13.70	7.80
305 x 305 x 158	158.1	327.1	311.2	15.8	25.0	20.0	237.1	6.22	15.00	39002	12572	13.90	7.87
305 x 305 x 198	198.1	339.9	314.5	19.1	31.4	20.0	237.1	5.01	12.40	51159	16303	14.20	8.01
305 x 305 x 240	240.0	352.5	318.4	23.0	37.7	20.0	237.1	4.22	10.30	64458	20319	14.50	8.13
305 x 305 x 283	282.9	365.3	322.2	26.8	44.1	20.0	237.1	3.65	8.85	79127	24641	14.80	8.25
356 x 368 x 129	129.0	355.6	368.6	10.4	17.5	20.0	280.6	10.50	27.00	40591	14613	15.60	9.39
356 x 368 x 153	152.9	362.0	370.5	12.3	20.7	20.0	280.6	8.95	22.80	48935	17556	15.80	9.46
356 x 368 x 177	177.0	368.2	372.6	14.4	23.8	20.0	280.6	7.83	19.50	57464	20532	15.90	9.51
356 x 368 x 202	201.9	374.6	374.7	16.5	27.0	20.0	280.6	6.94	17.00	66607	23692	16.00	9.57
356 x 406 x 235	235.1	381.0	394.8	18.4	30.2	20.0	280.6	6.54	15.30	79431	30997	16.20	10.10
356 x 406 x 287	287.1	393.6	399.0	22.6	36.5	20.0	280.6	5.47	12.40	100221	38682	16.50	10.30
356 x 406 x 340	339.9	406.4	403.0	26.6	42.9	20.0	280.6	4.70	10.50	122889	46859	16.80	10.40
356 x 406 x 393	393.0	419.0	407.0	30.6	49.2	20.0	280.6	4.14	9.17	146964	55374	17.10	10.50
356 x 406 x 467	467.0	436.6	412.2	35.8	58.0	20.0	280.6	3.55	7.84	183349	67842	17.50	10.70
356 x 406 x 551	551.0	455.6	418.5	42.1	67.5	20.0	280.6	3.10	6.67	227284	82681	18.00	10.80
356 x 406 x 634	633.9	474.6	424.0	47.6	77.0	20.0	280.6	2.75	5.89	275191	98138	18.40	11.00



Universal columns (UC) 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 ²	Serial size
cm ³	cm ³	cm ³	cm ³			dm ⁶	cm ⁴		
164	53	182	80	0.840	20.70	0.0212	4.63	29.2	152 x 152 x 23
222	73	248	112	0.849	16.00	0.0308	10.50	38.3	152 x 152 x 30
273	91	309	140	0.848	13.30	0.0399	19.20	47.1	152 x 152 x 37
326	110	372	169	0.848	11.50	0.0499	31.70	56.1	152 x 152 x 44
379	130	438	199	0.848	10.10	0.0610	48.80	65.2	152 x 152 x 51
453	152	502	231	0.848	17.30	0.1430	23.30	59.2	203 x 203 x 46
514	174	572	265	0.849	15.50	0.1670	33.20	66.8	203 x 203 x 52
588	201	660	306	0.847	13.80	0.1970	49.10	76.9	203 x 203 x 60
709	246	803	374	0.853	11.80	0.2500	82.70	90.9	203 x 203 x 71
854	299	981	457	0.850	10.10	0.3180	140.00	110.0	203 x 203 x 86
992	350	1153	535	0.852	8.94	0.3860	214.00	127.0	203 x 203 x 100
1135	404	1333	619	0.853	8.04	0.4640	311.00	145.0	203 x 203 x 113
1282	460	1521	705	0.854	7.32	0.5490	435.00	163.0	203 x 203 x 127
916	307	1014	467	0.851	16.30	0.5630	66.10	95.2	254 x 254 x 73
1114	379	1246	577	0.851	13.90	0.7170	114.00	115.0	254 x 254 x 89
1331	458	1507	699	0.849	12.00	0.8990	188.00	138.0	254 x 254 x 107
1648	577	1892	881	0.851	10.00	1.1900	341.00	170.0	254 x 254 x 132
2092	745	2446	1140	0.852	8.30	1.6400	661.00	215.0	254 x 254 x 167
1462	479	1612	727	0.851	18.70	1.5600	98.40	125.0	305 x 305 x 97
1776	590	1977	897	0.851	15.80	1.9800	171.00	152.0	305 x 305 x 118
2064	692	2316	1054	0.851	13.90	2.3900	261.00	176.0	305 x 305 x 137
2385	808	2700	1232	0.852	12.30	2.8700	394.00	203.0	305 x 305 x 158
3010	1037	3460	1583	0.854	10.10	3.8800	758.00	254.0	305 x 305 x 198
3657	1276	4267	1953	0.854	8.64	5.0300	1307.00	307.0	305 x 305 x 240
4332	1530	5125	2345	0.855	7.58	6.3600	2084.00	362.0	305 x 305 x 283
2283	793	2502	1200	0.845	19.40	4.1800	161.00	166.0	356 x 368 x 129
2704	948	2987	1436	0.845	16.70	5.1100	261.00	196.0	356 x 368 x 153
3121	1102	3478	1672	0.845	14.80	6.0900	396.00	227.0	356 x 368 x 177
3556	1265	3994	1921	0.845	13.20	7.1600	576.00	259.0	356 x 368 x 202
4170	1570	4709	2385	0.835	11.90	9.5400	834.00	301.0	356 x 406 x 235
5093	1939	5835	2951	0.835	10.10	12.3000	1474.00	367.0	356 x 406 x 287
6048	2326	7022	3546	0.836	8.77	15.5000	2391.00	434.0	356 x 406 x 340
7015	2721	8245	4156	0.837	7.80	18.9000	3611.00	502.0	356 x 406 x 393
8399	3292	10025	5037	0.840	6.81	24.3000	5905.00	596.0	356 x 406 x 467
9977	3951	12099	6062	0.841	6.01	31.1000	9381.00	703.0	356 x 406 x 551
11597	4629	14258	7112	0.843	5.43	38.8000	13920.00	809.0	356 x 406 x 634

Dimensions and properties to BS EN 10365:2017

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