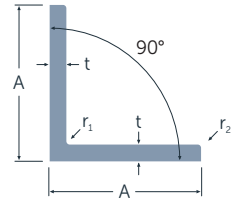
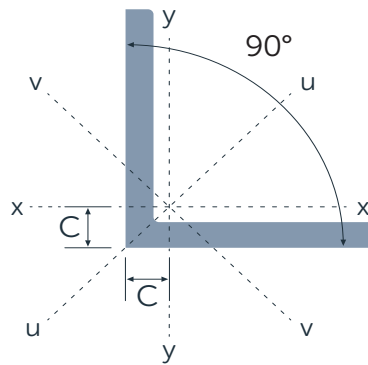


British Steel, the only UK manufacturer of structural sections, is BES 6001 certified, guaranteeing commitment to responsibly sourced materials. Our structural sections are CE marked and tested to the highest standards, providing quality and assurance for the UK construction market.



## Equal Angles (EA) sizes

Designation  Serial size	Mass per metre	Depth of section	Width of section	Thickness	Root radius	Toe radius	Area of section	Distance to centre of gravity	Second moment of area		
									I		
A x A x t		h	b	s	r <sub>1</sub>	r <sub>2</sub>		C <sub>x</sub>	x-x, y-y	u-u	v-v
mm x mm x mm	kg/m	mm	mm	mm	mm	mm	cm <sub>2</sub>	cm	cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>4</sup>
200x200x24	71.1	200	200	24	18	9.0	90.6	5.84	3,331	5,280	1,380
200x200x20	59.9	200	200	20	18	9.0	76.3	5.68	2,851	4,530	1,170
200x200x18	54.2	200	200	18	18	9.0	69.1	5.60	2,600	4,150	1,050
200x200x16	48.5	200	200	16	18	9.0	61.8	5.52	2,342	3,720	960
150x150x18	40.1	150	150	18	16	8.0	51.0	4.37	1,050	1,680	440
150x150x15	33.8	150	150	15	16	8.0	43.0	4.25	898	1,430	370
150x150x12	27.3	150	150	12	16	8.0	34.8	4.12	737	1,170	303
150x150x10	23.0	150	150	10	16	8.0	29.3	4.03	624	990	258
120x120x15	26.6	120	120	15	13	6.5	33.9	3.51	445	710	186
120x120x12	21.6	120	120	12	13	6.5	27.5	3.40	368	584	152
120x120x10	18.2	120	120	10	13	6.5	23.2	3.31	313	497	129
120x120x8	14.7	120	120	8	13	6.5	18.7	3.23	256	411	107



## Equal Angles (EA) sizes

Radius of gyration i			Elastic modulus	Torsional constant	Equivalent slenderness coefficient	Indicative Nb.z.Rd* values for S355 steel for lcr = 3.5m	Surface area per metre		Designation
Axis	Axis	Axis					Axis	m <sup>2</sup>	
cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>4</sup>		knN			Serial size
6.06	7.63	3.90	235	182	2.50	1,560	0.78	11.03	200x200x24
6.11	7.71	3.92	199	107	3.05	<i>1,320</i>	0.78	13.09	200x200x20
6.13	7.75	3.90	181	78.9	3.43	<i>1,190</i>	0.78	14.46	200x200x18
6.16	7.76	3.94	162	56.1	3.85	<i>1,050</i>	0.78	16.18	200x200x16
4.54	5.74	2.94	98.8	58.6	2.48	653	0.59	14.63	150x150x18
4.57	5.77	2.93	83.5	34.6	3.01	555	0.59	17.36	150x150x15
4.60	5.80	2.95	67.8	18.2	3.77	440	0.59	21.44	150x150x12
4.62	5.81	2.97	56.9	10.8	4.51	352	0.59	25.51	150x150x10
3.62	4.58	2.34	52.4	27.0	2.37	329	0.47	17.60	120x120x15
3.65	4.61	2.35	42.7	14.2	2.99	268	0.47	21.69	120x120x12
3.67	4.63	2.36	36.0	8.41	3.61	224	0.47	25.76	120x120x10
3.69	4.69	2.39	29.1	4.44	4.56	173	0.47	31.87	120x120x8

Dimensions and properties to BS EN 10056-1.

\* 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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