

Engineering Information

Equal Angles and Properties

Engineering Information

ROLLED STEEL DIMENSIONS						
Designation	Size A x B mm x mm	Thick- ness t mm	Section al area a mm ²	Weight per metre w kg.	Moduli of Section Z _{xx} = Z _{yy} cm ³ cm ³	
ISA 3020	30 x 20	3.0	1.41	1.1	0.6	0.3
		4.0	1.84	1.4	0.8	0.4
		5.0	2.25	1.8	1.0	0.4
ISA 4025	40 x 25	3.0	1.88	1.5	1.1	0.5
		4.0	2.46	1.9	1.4	0.6
		5.0	3.02	2.4	1.8	0.7
ISA 4530	45 x 30	4.0	3.56	2.8	2.1	0.9
		6.0	3.02	1.7	1.4	0.7
		8.0	2.68	2.2	1.9	0.9
ISA 5030	50 x 30	6.0	3.52	2.8	2.3	1.1
		8.0	4.16	3.3	2.7	1.3
		10.0	2.34	1.8	1.7	0.7
ISA 6040	60 x 40	8.0	3.07	2.4	2.3	0.9
		10.0	3.78	3.0	2.8	1.1
		12.0	4.47	3.5	3.4	1.3
ISA 6545	65 x 45	10.0	4.76	3.7	4.2	2.0
		12.0	5.65	4.4	5.0	2.3
		14.0	7.37	5.8	6.5	3.0
ISA 7045	70 x 45	16.0	5.26	4.1	5.0	2.5
		18.0	6.25	4.9	5.9	3.0
		20.0	8.17	6.4	7.7	3.9
ISA 7550	75 x 50	22.0	5.52	4.3	5.7	2.5
		24.0	6.56	5.2	6.8	3.0
		26.0	8.58	6.7	8.9	3.9
ISA 8050	80 x 50	28.0	10.52	8.3	10.9	4.8
		30.0	6.02	4.7	6.7	3.2
		32.0	7.16	5.6	8.0	3.8
		34.0	9.38	7.4	10.4	4.9
		36.0	10.52	9.0	12.7	6.0
		38.0	6.27	4.9	7.5	3.2
		40.0	7.49	5.9	9.0	3.8
		42.0	9.78	7.7	11.7	4.9
		44.0	12.2	9.4	14.4	6.0

Engineering Information

UNEQUAL ANGLES AND PROPERTIES						
Designation	Size A x B mm x mm	Thick- ness t mm	Section al area a mm ²	Weight per metre w kg.	Moduli of Section Z _{xx} = Z _{yy} cm ³ cm ³	
ISA 9060	90 x 60	6.0	8.65	6.8	11.5	5.5
		8.0	11.37	8.9	15.1	7.2
		10.0	14.01	11.0	18.6	8.8
ISA 10065	100 x 65	12.0	16.57	13.0	22.0	1.03
		6.0	9.55	7.5	14.2	6.4
		8.0	12.57	9.9	18.7	8.5
ISA 10075	100 x 75	10.0	15.51	12.2	23.1	10.4
		6.0	10.14	8.0	14.4	8.5
		8.0	13.36	10.5	19.1	11.2
ISA 12575	125 x 75	10.0	16.50	13.0	23.6	13.8
		12.0	19.56	15.4	27.9	16.3
		6.0	11.66	9.2	22.2	8.7
ISA 12595	125 x 95	8.0	15.38	12.1	29.4	11.5
		10.0	19.02	14.9	36.3	14.2
		6.0	12.86	10.1	23.1	14.0
ISA 15075	150 x 75	8.0	16.98	13.3	30.6	18.5
		10.0	21.02	16.5	37.8	22.9
		12.0	24.98	19.6	44.8	27.1
ISA 150115	150 x 115	8.0	17.42	13.7	41.7	11.8
		10.0	21.56	16.9	51.6	14.5
		12.0	25.62	20.1	61.2	17.1
ISA 200100	200 x 100	8.0	20.58	16.2	44.2	27.2
		10.0	25.52	20.0	54.9	33.8
		12.0	30.88	23.5	65.3	40.2
ISA 200150	200 x 150	15.0	37.52	29.5	80.4	49.2
		10.0	29.03	22.8	92.8	26.2
		12.0	34.59	27.2	110.6	31.1
		15.0	42.78	33.6	136.5	38.3
		10.0	34.00	16.7	98.3	58.7
		12.0	40.56	31.8	117.4	69.39
		15.0	50.25	39.4	145.4	86.0
		18.0	59.7	46.9	172.5	10.8