

Engineering Information

Unequal 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	3.0	2.58	1.7	1.4	0.7
		4.0	2.68	2.2	1.9	0.9
		5.0	3.52	2.8	2.3	1.1
ISA 5030	50 x 30	3.0	4.16	3.3	2.7	1.3
		4.0	3.07	2.4	2.3	0.9
		5.0	3.78	3.0	2.8	1.1
ISA 6040	60 x 40	3.0	4.47	3.5	3.4	1.3
		4.0	4.76	3.7	4.2	2.0
		5.0	5.65	4.4	5.0	2.3
ISA 6545	65 x 45	3.0	7.37	5.8	6.5	3.0
		4.0	5.26	4.1	5.0	2.5
		5.0	6.25	4.9	5.9	3.0
ISA 7045	70 x 45	3.0	8.17	6.4	7.7	3.9
		4.0	5.52	4.3	5.7	2.5
		5.0	6.56	5.2	6.8	3.0
ISA 7550	75 x 50	3.0	8.58	6.7	8.9	3.9
		4.0	10.52	8.3	10.9	4.8
		5.0	6.02	4.7	6.7	3.2
ISA 8050	80 x 50	3.0	7.16	5.6	8.0	3.8
		4.0	9.38	7.4	10.4	4.9
		5.0	10.52	9.0	12.7	6.0
ISA 8050	80 x 50	6.0	6.27	4.9	7.5	3.2
		7.49	5.9	5.9	9.0	3.8
		8.0	9.78	7.7	11.7	4.9
		10.0	12.2	9.4	14.4	6.0

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UNEQUAL ANGLES AND PROPERTIES						
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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	6.0	16.57	13.0	22.0	10.3
		8.0	9.55	7.5	14.2	6.4
		10.0	12.57	9.9	18.7	8.5
ISA 10075	100 x 75	6.0	15.51	12.2	23.1	10.4
		8.0	10.14	8.0	14.4	8.5
		10.0	13.36	10.5	19.1	11.2
ISA 12575	125 x 75	6.0	16.50	13.0	23.6	13.8
		8.0	19.56	15.4	27.9	16.3
		10.0	11.66	9.2	22.2	8.7
ISA 12595	125 x 95	6.0	15.38	12.1	29.4	11.5
		8.0	19.02	14.9	36.3	14.2
		10.0	12.86	10.1	23.1	14.0
ISA 15075	150 x 75	6.0	16.98	13.3	30.6	18.5
		8.0	21.02	16.5	37.8	22.9
		10.0	24.98	19.6	44.8	27.1
ISA 150115	150 x 115	6.0	17.42	13.7	41.7	11.8
		8.0	21.56	16.9	51.6	14.5
		10.0	25.62	20.1	61.2	17.1
ISA 200100	200 x 100	6.0	20.58	16.2	44.2	27.2
		8.0	25.52	20.0	54.9	33.8
		10.0	30.88	23.5	65.3	40.2
ISA 200150	200 x 150	6.0	37.52	29.5	80.4	49.2
		8.0	29.03	22.8	92.8	26.2
		10.0	34.59	27.2	110.6	31.1
ISA 200150	200 x 150	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
ISA 200150	200 x 150	15.0	50.25	39.4	145.4	86.0
		18.0	59.7	46.9	172.5	10.8