

MS angle (ISA) weight chart

Weight per metre of every equal leg mild steel angle in IS 808:2021, from 20 x 20 x 3 to 200 x 200 x 25.

Section	a (mm)	b (mm)	t (mm)	kg/m	lb/ft	A (cm ²)	Ix (cm ⁴)	Zx (cm ³)	1989 kg/m	1964 kg/m
ISA 20 x 20 x 3	20	20	3	0.90	0.60	1.14	0.40	0.29	0.90	—
ISA 25 x 25 x 3	25	25	3	1.14	0.77	1.45	0.83	0.46	1.10	—
ISA 20 x 20 x 4	20	20	4	1.16	0.78	1.47	0.50	0.37	1.10	—
ISA 30 x 30 x 3	30	30	3	1.38	0.93	1.76	1.47	0.68	1.40	—
ISA 25 x 25 x 4	25	25	4	1.48	0.99	1.88	1.04	0.60	1.40	—
ISA 35 x 35 x 3	35	35	3	1.62	1.09	2.06	2.38	0.94	1.60	—
ISA 25 x 25 x 5	25	25	5	1.80	1.21	2.29	1.23	0.72	1.80	—
ISA 30 x 30 x 4	30	30	4	1.80	1.21	2.29	1.86	0.88	1.80	—
ISA 40 x 40 x 3	40	40	3	1.86	1.25	2.37	3.61	1.24	1.80	—
ISA 45 x 45 x 3	45	45	3	2.10	1.41	2.67	5.20	1.58	2.10	—
ISA 35 x 35 x 4	35	35	4	2.11	1.42	2.69	3.04	1.22	2.10	—
ISA 30 x 30 x 5	30	30	5	2.20	1.48	2.80	2.22	1.07	2.20	—
ISA 50 x 50 x 3	50	50	3	2.34	1.57	2.99	7.21	1.97	2.30	—
ISA 40 x 40 x 4	40	40	4	2.44	1.64	3.10	4.63	1.62	2.40	—
ISA 35 x 35 x 5	35	35	5	2.59	1.74	3.30	3.65	1.49	2.60	—
ISA 45 x 45 x 4	45	45	4	2.75	1.85	3.50	6.70	2.07	2.70	—
ISA 40 x 40 x 5	40	40	5	2.99	2.01	3.81	5.58	1.97	3.00	—
ISA 35 x 35 x 6	35	35	6	3.06	2.06	3.89	4.20	1.74	3.00	—
ISA 50 x 50 x 4	50	50	4	3.08	2.07	3.92	9.32	2.57	3.00	—
ISA 45 x 45 x 5	45	45	5	3.39	2.28	4.31	8.10	2.53	3.40	—
ISA 55 x 55 x 4	55	55	4	3.40	2.28	4.33	12.50	3.14	3.30	—
ISA 40 x 40 x 6	40	40	6	3.54	2.38	4.50	6.46	2.32	3.50	—
ISA 60 x 60 x 4	60	60	4	3.71	2.49	4.73	16.40	3.76	3.70	—
ISA 50 x 50 x 5	50	50	5	3.79	2.55	4.83	11.30	3.16	3.80	—
ISA 45 x 45 x 6	45	45	6	4.01	2.69	5.10	9.42	2.98	4.00	—
ISA 65 x 65 x 4	65	65	4	4.03	2.71	5.13	21.00	4.43	4.00	—
ISA 55 x 55 x 5	55	55	5	4.19	2.82	5.34	15.20	3.85	4.10	—
ISA 50 x 50 x 6	50	50	6	4.49	3.02	5.72	13.20	3.72	4.50	—
ISA 60 x 60 x 5	60	60	5	4.58	3.08	5.84	20.00	4.62	4.50	—
ISA 55 x 55 x 6	55	55	6	4.97	3.34	6.33	17.80	4.55	4.90	—
ISA 65 x 65 x 5	65	65	5	4.98	3.35	6.34	25.70	5.45	4.90	—
ISA 70 x 70 x 5	70	70	5	5.38	3.62	6.86	32.30	6.36	5.30	—

Section	a (mm)	b (mm)	t (mm)	kg/m	lb/ft	A (cm ²)	I _x (cm ⁴)	Z _x (cm ³)	1989 kg/m	1964 kg/m
ISA 60 x 60 x 6	60	60	6	5.44	3.66	6.93	23.40	5.46	5.40	—
ISA 75 x 75 x 5	75	75	5	5.77	3.88	7.36	40.00	7.30	5.70	—
ISA 65 x 65 x 6	65	65	6	5.91	3.97	7.53	30.10	6.45	5.80	—
ISA 70 x 70 x 6	70	70	6	6.39	4.29	8.15	38.00	7.53	6.30	—
ISA 55 x 55 x 8	55	55	8	6.48	4.35	8.25	22.50	5.87	6.40	—
ISA 75 x 75 x 6	75	75	6	6.86	4.61	8.75	47.10	8.70	6.80	—
ISA 60 x 60 x 8	60	60	8	7.10	4.77	9.05	29.80	7.06	7.00	—
ISA 80 x 80 x 6	80	80	6	7.36	4.95	9.38	57.60	9.90	7.30	—
ISA 65 x 65 x 8	65	65	8	7.73	5.19	9.85	38.40	8.36	7.70	—
ISA 90 x 90 x 6	90	90	6	8.32	5.59	10.60	83.00	12.70	8.20	—
ISA 70 x 70 x 8	70	70	8	8.37	5.62	10.60	48.50	9.77	8.30	—
ISA 75 x 75 x 8	75	75	8	9.00	6.05	11.40	60.30	11.30	8.90	—
ISA 100 x 100 x 6	100	100	6	9.26	6.22	11.80	115	15.70	9.20	—
ISA 80 x 80 x 8	80	80	8	9.65	6.48	12.30	74.00	12.90	9.60	—
ISA 70 x 70 x 10	70	70	10	10.29	6.91	13.10	58.30	11.90	10.20	—
ISA 90 x 90 x 8	90	90	8	10.92	7.34	13.90	107	16.50	10.80	—
ISA 75 x 75 x 10	75	75	10	11.07	7.44	14.10	72.60	13.80	11.00	—
ISA 80 x 80 x 10	80	80	10	11.88	7.98	15.10	89.20	15.80	11.80	—
ISA 100 x 100 x 8	100	100	8	12.18	8.18	15.50	148	20.60	12.10	—
ISA 110 x 110 x 8	110	110	8	13.40	9.00	17.00	196	24.60	13.40	—
ISA 90 x 90 x 10	90	90	10	13.47	9.05	17.10	129	20.20	13.40	—
ISA 80 x 80 x 12	80	80	12	14.05	9.44	17.90	103	18.50	14.00	—
ISA 100 x 100 x 10	100	100	10	15.04	10.11	19.10	180	25.30	14.90	—
ISA 130 x 130 x 8	130	130	8	15.92	10.70	20.20	330	34.80	15.90	—
ISA 90 x 90 x 12	90	90	12	15.95	10.72	20.30	150	23.80	15.80	—
ISA 110 x 110 x 10	110	110	10	16.58	11.14	21.10	240	30.40	16.60	—
ISA 100 x 100 x 12	100	100	12	17.83	11.98	22.70	210	29.80	17.70	—
ISA 110 x 110 x 12	110	110	12	19.68	13.22	25.00	281	35.90	19.70	—
ISA 130 x 130 x 10	130	130	10	19.72	13.25	25.10	405	43.10	19.70	—
ISA 150 x 150 x 10	150	150	10	22.93	15.41	29.20	633	58.00	22.90	—
ISA 130 x 130 x 12	130	130	12	23.45	15.76	29.80	476	51.00	23.50	—
ISA 110 x 110 x 16	110	110	16	25.71	17.28	32.70	357	46.50	25.70	—
ISA 150 x 150 x 12	150	150	12	27.29	18.34	34.70	746	68.80	27.30	—
ISA 130 x 130 x 16	130	130	16	30.74	20.66	39.10	609	66.30	30.70	—
ISA 150 x 150 x 16	150	150	16	35.84	24.08	45.60	958	89.70	35.80	—

Section	a (mm)	b (mm)	t (mm)	kg/m	lb/ft	A (cm ²)	I _x (cm ⁴)	Z _x (cm ³)	1989 kg/m	1964 kg/m
ISA 200 x 200 x 12	200	200	12	36.85	24.76	46.90	1,820	125	36.90	—
ISA 150 x 150 x 20	150	150	20	44.12	29.65	56.20	1,150	109	44.10	—
ISA 200 x 200 x 16	200	200	16	48.53	32.61	61.80	2,360	163	48.50	—
ISA 200 x 200 x 20	200	200	20	59.96	40.29	76.30	2,870	201	60.00	—
ISA 200 x 200 x 25	200	200	25	73.90	49.66	94.10	3,470	246	73.90	—

Source: IS 808:2021; earlier weights from IS 808:1989 and SP 6(1):1964, as published by Public.Resource.Org. Nominal values for estimating; verify with the producer. steelweight-calculator.com