

ISMB weight chart

Weight per metre, dimensions and section properties of every ISMB (medium flange beam) size in IS 808:2021, with the IS 808:1989 and 1964 handbook weights that older charts quote.

Section	h (mm)	b (mm)	tw (mm)	tf (mm)	kg/m	lb/ft	A (cm ²)	Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)	1989 kg/m	1964 kg/m
ISMB 100	100	50	4.7	7	8.95	6.01	11.40	182	12.50	36.40	8.90	11.5
ISMB 125	125	70	5	8	13.35	8.97	17.00	445	38.40	71.30	13.30	13.0
ISMB 150	150	75	5	8	14.96	10.05	19.00	718	46.70	95.70	15.00	14.9
ISMB 175	175	85	5.8	9	19.50	13.10	24.80	1,260	76.60	144	19.60	19.3
ISMB 200	200	100	5.7	10	24.17	16.24	30.80	2,110	136	211	24.20	25.4
ISMB 225	225	110	6.5	11.8	31.15	20.93	39.70	3,440	218	306	31.10	31.2
ISMB 250	250	125	6.9	12.5	37.30	25.06	47.50	5,130	334	410	37.30	37.3
ISMB 300	300	140	7.7	13.1	46.02	30.92	58.60	8,990	486	599	46.00	44.2
ISMB 350	350	140	8.1	14.2	52.33	35.16	66.70	13,600	537	779	52.40	52.4
ISMB 400	400	140	8.9	16	61.55	41.36	78.40	20,400	622	1,020	61.50	61.6
ISMB 450	450	150	9.4	17.4	72.38	48.64	92.20	30,400	834	1,350	72.40	72.4
ISMB 500	500	180	10.2	17.2	86.88	58.38	110.00	45,200	1,360	1,800	86.90	86.9
ISMB 550	550	190	11.2	19.3	103.64	69.64	132.00	64,900	1,830	2,360	104.00	103.7
ISMB 600	600	210	12	20.3	121.00	81.31	154.00	90,200	2,570	3,000	123.00	122.6

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