

MS flat weight chart

$$\text{kg/m} = \text{width (mm)} \times \text{thickness (mm)} \times 0.00785$$

Weight per metre of mild steel (MS) flat bar. A 50 × 6 mm flat weighs $50 \times 6 \times 0.00785 = 2.36$ kg/m, so a 6 m length is 14.1 kg.

Metric flats (kg/m)

Width	3 mm	5 mm	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm
12 mm	0.28	0.47	0.57	0.75	0.94	1.13	—	—	—
16 mm	0.38	0.63	0.75	1.00	1.26	1.51	2.01	—	—
20 mm	0.47	0.78	0.94	1.26	1.57	1.88	2.51	3.14	—
25 mm	0.59	0.98	1.18	1.57	1.96	2.36	3.14	3.93	4.91
32 mm	0.75	1.26	1.51	2.01	2.51	3.01	4.02	5.02	6.28
40 mm	0.94	1.57	1.88	2.51	3.14	3.77	5.02	6.28	7.85
45 mm	1.06	1.77	2.12	2.83	3.53	4.24	5.65	7.06	8.83
50 mm	1.18	1.96	2.36	3.14	3.93	4.71	6.28	7.85	9.81
65 mm	1.53	2.55	3.06	4.08	5.10	6.12	8.16	10.20	12.76
75 mm	1.77	2.94	3.53	4.71	5.89	7.06	9.42	11.77	14.72
90 mm	2.12	3.53	4.24	5.65	7.06	8.48	11.30	14.13	17.66
100 mm	2.36	3.93	4.71	6.28	7.85	9.42	12.56	15.70	19.63
125 mm	2.94	4.91	5.89	7.85	9.81	11.77	15.70	19.63	24.53
150 mm	3.53	5.89	7.06	9.42	11.77	14.13	18.84	23.55	29.44
200 mm	4.71	7.85	9.42	12.56	15.70	18.84	25.12	31.40	39.25
250 mm	5.89	9.81	11.77	15.70	19.63	23.55	31.40	39.25	49.06
300 mm	7.06	11.77	14.13	18.84	23.55	28.26	37.68	47.10	58.87

Inch flats (lb/ft)

Width	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	3/4"	1"
1/2"	0.21	0.32	0.43	0.53	0.64	0.85	—	—
3/4"	0.32	0.48	0.64	0.80	0.96	1.28	1.91	—
1"	0.43	0.64	0.85	1.06	1.28	1.70	2.55	3.40
1-1/4"	0.53	0.80	1.06	1.33	1.59	2.13	3.19	4.25
1-1/2"	0.64	0.96	1.28	1.59	1.91	2.55	3.82	5.10
2"	0.85	1.28	1.70	2.13	2.55	3.40	5.10	6.80
2-1/2"	1.06	1.59	2.13	2.66	3.19	4.25	6.38	8.50
3"	1.28	1.91	2.55	3.19	3.82	5.10	7.65	10.20

Width	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	3/4"	1"
4"	1.70	2.55	3.40	4.25	5.10	6.80	10.20	13.60
5"	2.13	3.19	4.25	5.31	6.38	8.50	12.75	17.00
6"	2.55	3.82	5.10	6.38	7.65	10.20	15.30	20.40
8"	3.40	5.10	6.80	8.50	10.20	13.60	20.40	27.20
10"	4.25	6.38	8.50	10.63	12.75	17.00	25.50	34.00
12"	5.10	7.65	10.20	12.75	15.30	20.40	30.60	40.80

Theoretical weights at 7850 kg/m³ (490 lb/ft³), square edges. Multiply by 1.01 for stainless steel 304 and by 0.344 for aluminum. steelweight-calculator.com