

Engineering Information

Flat Iron In Kg.Per Metre and Square and Round Bars

0.7834kg/cm² per metre or 1 cft of Steel=490 lbs, thickness in mm to convert width in mm for flat iron in Flat Iron In kg.per metre and square and round bars.

Engineering Information

FLAT IRON - WEIGHT IN KG. PER METRE										
0.7834 kg/cm ² per metre or 1 cft of Steel = 490 lbs.										
Thickness in mm. →	5	5.5	6	7	8	10	11	12	14	16
Width in mm. ↓										
12	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5
16	0.6	0.7	0.8	0.9	1.0	1.3	1.4	1.5	1.8	2.0
20	0.8	0.9	1.0	1.1	1.3	1.6	1.7	1.9	2.2	2.5
25	1.0	1.1	1.2	1.4	1.6	2.0	2.2	2.4	2.7	3.1
32	1.3	1.4	1.5	1.8	2.0	2.5	2.8	3.0	3.5	4.0
40	1.6	1.7	1.9	2.2	2.5	3.1	3.5	3.8	4.4	5.0
50	2.0	2.2	2.4	2.7	3.1	3.9	4.3	4.7	5.5	6.3
63	2.5	2.7	3.0	3.5	4.0	4.9	5.4	5.9	6.9	7.9
80	3.1	3.5	3.8	4.4	5.0	6.3	6.9	7.5	8.8	10.0
100	3.9	4.3	4.7	5.5	6.3	7.8	8.6	9.4	11.0	12.6
125	4.9	5.4	5.9	6.9	7.8	9.8	10.8	11.8	13.7	15.7
160	6.3	6.9	7.5	8.8	10.0	12.6	13.8	15.1	17.6	20.1
200	7.8	8.6	9.4	11.0	12.6	15.7	17.3	18.8	22.0	25.1
250	10.8	11.8	13.7	15.7	19.6	21.6	23.6	27.5	31.4	

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Engineering Information

SQUARE AND ROUND BARS						
0.7834 kg/cm ² per metre or 1 cft of Steel = 490 lbs.						
Diameter or width mm.	Weight per meter		Sectional Area		Perimeter	
	kg.	kg.	cm ²	cm ²	cm.	cm.
5.0	0.20	0.15	0.25	0.20	2.00	1.57
5.5	0.24	0.19	0.30	0.24	2.20	1.73
6.0	0.28	0.20	0.36	0.28	2.40	1.88
7.0	0.38	0.30	0.49	0.38	2.80	2.20
8.0	0.50	0.39	0.64	0.50	3.20	3.51
9.0	0.64	0.50	0.81	0.64	3.60	2.83
10.0	0.78	0.62	1.00	0.79	4.00	3.14
11.0	0.95	0.75	1.21	0.95	4.40	3.64
12.0	1.13	0.89	1.44	1.13	4.80	3.77
14.0	1.54	1.21	1.96	1.54	5.60	4.40
16.0	2.01	1.58	2.56	2.01	6.40	5.03
18.0	2.54	2.00	3.24	2.54	7.20	5.65
20.0	3.14	2.47	4.00	3.14	8.00	6.28
22.0	3.80	2.98	4.84	3.80	8.80	6.91
25.0	4.91	3.85	6.25	4.91	10.00	7.85
28.0	6.15	4.83	7.84	6.16	11.20	8.80
32.0	8.04	6.31	10.24	8.04	12.80	10.05
36.0	10.17	7.99	12.96	10.18	14.40	11.31
40.0	12.56	9.86	16.00	12.57	16.00	12.57
45.0	15.90	12.49	20.25	15.90	18.00	14.14
50.0	19.62	15.41	25.00	19.64	20.00	15.71
56.0	24.62	19.34	31.36	24.63	22.40	17.59
63.0	31.16	24.47	39.69	31.17	25.20	19.79
71.0	39.57	31.08	50.41	39.59	28.40	22.31
80.0	50.24	39.46	64.00	50.27	32.00	25.13

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