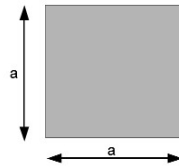


Square Bar



Metric Units

Designation			Area of Section A	Second Moment of Area I	Radius of Gyration r	Elastic Modulus Z	Plastic Modulus S
Size a	Mass per Metre						
mm	kg/m	lb/ft	mm ²	mm ⁴	mm	mm ³	mm ³
9	0.64	0.43	81	547	2.60	122	182
10	0.79	0.53	100	833	2.89	167	250
12	1.13	0.76	144	1728	3.46	288	432
16	2.01	1.35	256	5461	4.62	683	1024
18	2.54	1.71	324	8748	5.20	972	1458
19	2.83	1.90	361	10860	5.48	1143	1715
20	3.14	2.11	400	13333	5.77	1333	2000
22	3.80	2.55	484	19521	6.35	1775	2662
25	4.91	3.30	625	32552	7.22	2604	3906
28	6.15	4.14	784	51221	8.08	3659	5488
30	7.07	4.75	900	67500	8.66	4500	6750
32	8.04	5.40	1024	87381	9.24	5461	8192
35	9.62	6.46	1225	125052	10.1	7146	10719
36	10.17	6.84	1296	139968	10.4	7776	11664
38	11.34	7.62	1444	173761	11.0	9145	13718
44	15.20	10.21	1936	312341	12.7	14197	21296
50	19.63	13.19	2500	520833	14.4	20833	31250
55	23.75	15.96	3025	762552	15.9	27729	41594
60	28.26	18.99	3600	1080000	17.3	36000	54000
65	33.17	22.29	4225	1487552	18.8	45771	68656
70	38.47	25.85	4900	2000833	20.2	57167	85750
75	44.16	29.67	5625	2636719	21.7	70313	105469
80	50.24	33.76	6400	3413333	23.1	85333	128000
85	56.72	38.11	7225	4350052	24.5	102354	153531
90	63.59	42.73	8100	5467500	26.0	121500	182250
95	70.85	47.61	9025	6787552	27.4	142896	214344
100	78.50	52.75	10000	8333333	28.9	166667	250000
110	94.99	63.83	12100	12200833	31.8	221833	332750
120	113.04	75.96	14400	17280000	34.6	288000	432000
130	132.67	89.15	16900	23800833	37.5	366167	549250
140	153.86	103.39	19600	32013333	40.4	457333	686000
150	176.63	118.69	22500	42187500	43.3	562500	843750
160	200.96	135.05	25600	54613333	46.2	682667	1024000