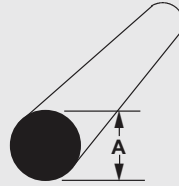
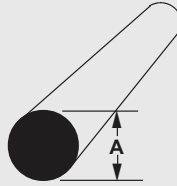


ROUND RODS

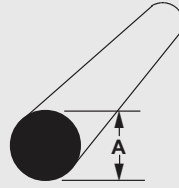


Sec	A	Kgm	Sec	A	Kg/m	Sec	A	Kg/m
R001	6.35	0.086	R102	12.40	0.326	R093	18.70	0.742
R209	7.70	0.129	R104	12.50	0.331	R028	19.00	0.766
R044	7.87	0.131	R185	12.51	0.332	R124	19.00	0.766
R007	7.94	0.134	R176	12.55	0.334	R005	19.05	0.770
R182	8.00	0.136	R103	12.60	0.337	R075	19.05	0.770
R116	8.25	0.144	R003	12.70	0.342	R192	19.30	0.790
R152	8.27	0.145	R150	12.75	0.345	R086	19.60	0.815
R037	8.50	0.153	R033	12.90	0.353	R029	20.00	0.848
R156	8.60	0.157	R084	13.00	0.358	R168	20.00	0.848
R031	9.00	0.172	R012	13.49	0.386	R092	20.20	0.865
R160	9.36	0.186	R263	13.90	0.410	R218	20.30	0.874
R108	9.37	0.186	R189	14.00	0.416	R042	20.65	0.904
R100	9.40	0.187	R026	14.30	0.434	R158	20.80	0.917
R101	9.50	0.191	R064	14.70	0.458	R039	21.00	0.935
R002	9.52	0.192	R171	14.98	0.476	R187	21.00	0.935
R153	9.53	0.193	R032	15.00	0.477	R074	21.00	0.935
R145	9.55	0.193	R244	15.25	0.493	R112	21.50	0.980
R193	9.70	0.200	R262	15.40	0.503	R091	22.00	1.026
R194	9.80	0.204	R141	15.60	0.516	R094	22.00	1.026
R013	10.00	0.212	R146	15.80	0.529	R166	22.00	1.026
R148	10.03	0.213	R004	15.88	0.535	R118	22.20	1.045
R010	10.06	0.215	R197	15.88	0.535	R008	22.22	1.047
R157	10.10	0.216	R015	16.00	0.543	R163	22.55	1.078
R165	10.13	0.218	R122	16.00	0.543	R198	22.70	1.093
R208	10.15	0.218	R058	16.20	0.557	R081	22.90	1.112
R019	10.16	0.219	R264	16.50	0.577	R137	23.00	1.122
R203	10.90	0.252	R067	16.70	0.591	R188	23.00	1.122
R011	11.13	0.263	R229	17.00	0.613	R256	23.25	1.146
R009	11.91	0.301	R085	17.10	0.620	R087	23.70	1.191
R014	12.00	0.305	R151	17.40	0.642	R061	23.81	1.202
R038	12.00	0.305	R027	17.50	0.649	R162	24.00	1.221
R079	12.00	0.305	R190	17.50	0.649	R217	24.30	1.252
R149	12.03	0.307	R040	18.00	0.687	R179	24.50	1.273
R034	12.19	0.315	R216	18.30	0.710	R065	25.00	1.325



Sec	A	Kgm	Sec	A	Kg/m	Sec	A	Kg/m
R006	25.40	1.368	R107	35.10	2.613	R080	53.00	5.957
R125	25.50	1.379	R284	35.50	2.672	R069	53.50	6.070
R072	25.80	1.412	R251	35.75	2.709	R088	53.50	6.070
R111	25.80	1.412	R089	36.00	2.748	R077	53.50	6.070
R048	26.00	1.434	R140	37.50	2.982	R070	54.00	6.184
R099	26.50	1.489	R287	37.50	2.982	R109	55.00	6.415
R062	26.99	1.545	R024	38.10	3.078	R196	56.00	6.650
R095	28.00	1.663	R071	38.80	3.192	R076	57.15	6.926
R167	28.00	1.663	R098	39.00	3.225	R139	57.15	6.927
R046	28.58	1.732	R299	39.00	3.225	R290	58.00	7.134
R114	28.60	1.735	R017	40.00	3.393	R175	58.80	7.332
R036	28.75	1.753	R119	41.00	3.565	R096	60.00	7.634
R083	28.80	1.759	R186	41.20	3.600	R288	60.32	7.716
R235	29.00	1.783	R068	42.00	3.741	R174	60.50	7.762
R016	30.00	1.909	R181	42.20	3.776	R121	61.00	7.891
R022	30.20	1.934	R049	42.70	3.866	R212	62.50	8.284
R155	30.20	1.934	R254	42.90	3.903	R253	63.33	8.505
R280	30.50	1.973	R206	44.45	4.190	R269	63.40	8.524
R023	31.00	2.038	R066	45.00	4.294	R025	63.50	8.551
R205	31.75	2.138	R135	46.00	4.487	R110	63.50	8.551
R041	32.00	2.171	R178	46.00	4.487	R078	65.00	8.959
R144	32.85	2.288	R177	46.80	4.645	R272	65.00	8.959
R180	32.85	2.288	R097	47.00	4.684	R247	65.40	9.070
R278	33.00	2.309	R277	47.63	4.810	R230	66.75	9.448
R043	33.30	2.351	R270	47.70	4.825	R211	68.00	9.806
R275	33.50	2.380	R199	48.00	4.886	R271	68.20	9.863
R286	33.70	2.408	R204	48.00	4.886	R276	69.20	10.155
R246	33.90	2.437	R279	49.00	5.091	R228	69.85	10.346
R045	34.92	2.586	R018	50.00	5.301	R115	70.00	10.391
R117	34.92	2.586	R020	50.80	5.472	R273	71.00	10.690
R131	34.92	2.586	R281	51.75	5.679	R282	71.00	10.690
R134	34.93	2.587	R050	52.00	5.734	R252	73.00	11.301
R106	35.00	2.598	R082	52.00	5.734	R161	75.00	11.928

ROUND RODS



Sec	A	Kgm	Sec	A	Kg/m	Sec	A	Kg/m
R214	75.50	12 .088	R223	107.95	24.711	R236	177.00	66.435
R021	76.20	12.313	R138	108.00	24.734	R159	180.00	68.707
R219	76.20	12.313	R052	110.00	25.659	R237	184.00	71.794
R283	77.20	12.638	R224	114.30	27.704	R129	187.50	74.552
R291	78.00	12.902	R234	115.00	28.045	R063	188.00	74.950
R248	79.40	13.369	R301	116.50	28.779	R233	190.00	76.553
R051	80.00	13.572	R057	120.00	30.536	R238	190.00	76.553
R169	80.00	13.572	R225	120.65	30.868	R260	190.50	76.956
R300	80.20	13.640	R073	125.00	33.134	R239	197.00	82.297
R126	80.50	13.742	R130	126.00	33.666	R133	200.00	84.823
R265	81.00	13.913	R226	127.00	34.203	R240	203.00	87.387
R142	82.00	14.259	R201	130.00	35.838	R259	203.20	87.559
R220	82.55	14.451	R257	133.35	37 .708	R245	205.00	89.117
R053	84.00	14.963	R207	135.00	38.648	R242	209.00	92.629
R173	85.00	15.321	R200	136.00	39.222	R232	210.00	93.517
R274	86.00	15.684	R266	139.70	41.385	R243	216.00	98.937
R154	87.00	16.051	R054	140.00	41.563	R210	220.00	102.636
R047	88.90	16.759	R268	143.00	43.364	R191	226.00	108.310
R113	89.00	16.797	R183	145.00	44.585	R202	230.00	112.179
R056	90.00	17.177	R147	146.05	45.233	R294	234.95	117.059
R090	92.00	17.949	R059	150.00	47.713	R250	241.00	123.163
R105	94.00	18.737	R128	153.00	49 .641	R231	250.00	132.536
R289	95.00	19.138	R295	155.00	50.947	R143	254.00	136.811
R221	95.25	19.239	R302	157.00	52.270	R195	254.00	136.811
R123	100.00	21.206	R296	158.75	53.442	R297	260.00	143.351
R292	101.00	21.632	R184	160.00	54.287	R285	266.70	150.834
R030	101.60	21.890	R213	160.00	54.287	R293	270.00	154.590
R222	101.60	21.890	R055	165.00	57.733	R170	280.00	166.253
R215	101.60	21.890	R258	165.10	57 .803	R267	284.00	171.037
R120	102.00	22 .063	R127	165.50	58.083	R172	289.00	177.113
R249	105.00	23.379	R164	170.00	61.285	R060	152 .4	49.252
R298	106.00	23.827	R241	172.00	62 .703	R261	177 .8	67.037
R035	107.95	24.712	R136	175.00	64.943	R255	29. 95	1.902