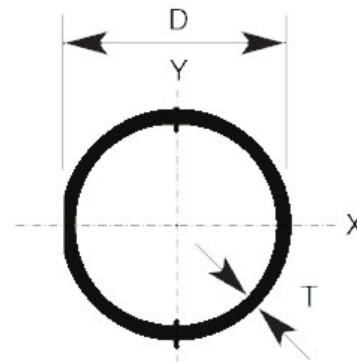


RAINHAM STEEL

Phone: 01708 522311 Fax: 01708 559024 Email: sales@rainhamsteel.co.uk

Cold Formed Circles

EN 10219



Outside diameter	Thickness	Mass	Area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional Constants		Superficial area	Approx. length/tonne
								I _t	C _t		
D	T	M	A	I	i	W _{el}	W _{pl}	I _t	C _t	m ² /m	m
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m	m
88.9	3.0	6.36	8.1	74.8	3.04	16.8	22.1	150	33.6	0.279	157
88.9	4.0	8.38	10.7	96.3	3.00	21.7	28.9	193	43.3	0.279	119
88.9	5.0	10.3	13.2	116	2.97	26.2	35.2	233	52.4	0.279	96.7
114.3	3.5	9.56	12.2	187	3.92	32.7	43.0	374	65.5	0.359	105
114.3	5.0	13.5	17.2	257	3.87	45.0	59.8	514	89.9	0.359	74.2
114.3	6.0	16.0	20.4	300	3.83	52.5	70.4	600	105	0.359	62.4
139.7	5.0	16.6	21.2	481	4.77	68.8	90.8	961	138	0.439	60.2
139.7	6.0	19.8	25.2	564	4.73	80.8	107	1129	162	0.439	50.5
139.7	8.0	26.0	33.1	720	4.66	103	139	1441	206	0.439	38.5
139.7	10.0	32.0	40.7	862	4.60	123	169	1724	247	0.439	31.3
168.3	5.0	20.1	25.7	856	5.78	102	133	1712	203	0.529	49.7
168.3	6.0	24.0	30.6	1009	5.74	120	158	2017	240	0.529	41.6
168.3	8.0	31.6	40.3	1297	5.67	154	206	2595	308	0.529	31.6
168.3	10.0	39.0	49.7	1564	5.61	186	251	3128	372	0.529	25.6
168.3	12.5	48.0	61.2	1868	5.53	222	304	3737	444	0.529	20.8
193.7	5.0	23.3	29.6	1320	6.67	136	178	2640	273	0.609	43.0
193.7	6.0	27.8	35.4	1560	6.64	161	211	3119	322	0.609	36.0
193.7	8.0	36.6	46.7	2016	6.57	208	276	4031	416	0.609	27.3
193.7	10.0	45.3	57.7	2442	6.50	252	338	4883	504	0.609	22.1
193.7	12.5	55.9	71.2	2934	6.42	303	411	5869	606	0.609	17.9
219.1	5.0	26.4	33.6	1928	7.57	176	229	3856	352	0.688	37.9
219.1	6.0	31.5	40.2	2282	7.54	208	273	4564	417	0.688	31.7
219.1	8.0	41.6	53.1	2960	7.47	270	357	5919	540	0.688	24
219.1	10.0	51.6	65.7	3598	7.40	328	438	7197	657	0.688	19.4
219.1	12.5	63.7	81.1	4345	7.32	397	534	8689	793	0.688	15.7
219.1	16.0	80.1	102	5297	7.20	483	661	10590	967	0.688	12.5
244.5	5.0	29.5	37.6	2699	8.47	221	287	5397	441	0.768	33.9
244.5	6.0	35.3	45.0	3199	8.43	262	341	6397	523	0.768	28.3
244.5	8.0	46.7	59.4	4160	8.37	340	448	8321	681	0.768	21.4
244.5	10.0	57.8	73.7	5073	8.30	415	550	10150	830	0.768	17.3
244.5	12.5	71.5	91.1	6147	8.21	503	673	12290	1066	0.768	14.0
244.5	16.0	90.2	115	7533	8.10	616	837	15070	1232	0.768	11.1

Outside diameter	Thickness	Mass	Area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional Constants		Superficial area	Approx. length/tonne
D mm	T mm	M Kg/m	A cm ²	I cm ⁴	i cm	W _{el} cm ³	W _{pl} cm ³	I _t cm ⁴	C _t cm ³	m ² /m	m
273	5.0	33.0	42.1	3781	9.48	277	359	7562	554	0.858	30.3
273	6.0	39.5	50.3	4487	9.44	329	428	8974	657	0.858	25.3
273	8.0	52.3	66.6	5852	9.37	429	562	11703	857	0.858	19.1
273	10.0	64.9	82.6	7154	9.31	524	692	14308	1048	0.858	15.4
273	12.5	80.3	102	8697	9.22	637	849	17395	1230	0.858	12.5
273	16.0	101	129	10707	9.10	784	1058	21414	1569	0.858	9.86
323.9	5.0	39.3	50.1	6369	11.3	393	509	12739	787	1.02	25.4
323.9	6.0	47.0	59.9	7572	11.2	468	606	15145	935	1.02	21.3
323.9	8.0	62.3	79.4	9910	11.2	612	799	19820	1224	1.02	16.0
323.9	10.0	77.4	98.6	12158	11.1	751	986	24317	1501	1.02	12.9
323.9	12.5	96.0	122	14320	11.0	917	1213	29693	1833	1.02	10.4
323.9	16.0	121	155	18390	10.9	1136	1518	36780	2271	1.02	8.23
355.6	6.0	51.7	65.9	10071	12.4	566	733	20141	1133	1.12	19.3
355.6	8.0	68.6	87.4	13201	12.3	742	967	26403	1485	1.12	14.6
355.6	10.0	85.2	109	16223	12.2	912	1195	32447	1825	1.12	11.7
355.6	12.5	106	135	19852	12.1	1117	1417	39704	2233	1.12	9.45
355.6	16.0	134	171	24663	12.0	1387	1847	49326	2774	1.12	7.46
406.4	6.0	59.2	75.5	15128	14.2	745	962	30257	1489	1.28	16.9
406.4	8.0	78.6	100	19874	14.1	978	1270	39748	1956	1.28	12.7
406.4	10.0	97.8	125	24476	14.0	1205	1572	48952	2409	1.28	10.2
406.4	12.5	121	155	30031	13.9	1478	1940	60061	2956	1.28	8.2
406.4	16.0	154	196	37449	13.8	18448	2440	74898	3686	1.28	6.5
457	8.0	88.6	113	28406	15.9	1245	1613	56893	2490	1.44	11.3
457	10.0	110	140	35091	15.8	1536	1998	70183	3071	1.44	9.07
457	12.5	137	175	43145	15.7	1888	2470	86290	3776	1.44	7.30
457	16	174	222	53959	15.6	2361	3113	107919	4723	1.44	5.75