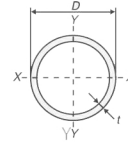


Cold Formed Circular Hollow Sections



BS EN 10219

Designation		Weight			Cross Sectional Area	Ratio for Local Buckling	Second Moment Of Area	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constant		Superficial Area per metre length	Nominal Length per tonne
Outside Diameter	Thickness										J	C		
OD	t	M			A	D/t	I	r	Z	S	J	C	As	L
mm	mm	Kg/m	Kg/ft	lb/ft	cm ²		cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m	m
21.3	2.0	0.952	0.290	0.640	1.21	10.65	0.571	0.686	0.536	0.748	1.14	1.07	0.0669	1050.5
	2.5	1.16	0.353	0.779	1.48	8.52	0.664	0.671	0.623	0.889	1.33	1.25	0.0669	862.7
	3.0	1.35	0.413	0.910	1.72	7.10	0.741	0.656	0.696	1.01	1.48	1.39	0.0669	738.6
26.9	2.0	1.23	0.374	0.825	1.56	13.45	1.22	0.883	0.907	1.24	2.44	1.81	0.0845	814.2
	2.5	1.50	0.459	1.01	1.92	10.76	1.44	0.867	1.07	1.49	2.88	2.14	0.0845	664.7
	3.0	1.77	0.539	1.19	2.25	8.97	1.63	0.852	1.21	1.72	3.27	2.43	0.0845	565.5
33.7	2.0	1.56	0.477	1.05	1.99	16.85	2.51	1.12	1.49	2.01	5.02	2.98	0.106	639.6
	2.5	1.92	0.586	1.29	2.45	13.48	3.00	1.11	1.78	2.44	6.00	3.56	0.106	519.9
	3.0	2.27	0.692	1.53	2.89	11.23	3.44	1.09	2.04	2.84	6.88	4.08	0.106	440.3
42.4	2.0	1.99	0.607	1.34	2.54	21.20	5.19	1.43	2.45	3.27	10.38	4.90	0.133	501.8
	2.5	2.46	0.750	1.65	3.13	16.96	6.26	1.41	2.95	3.99	12.52	5.91	0.133	406.5
	3.0	2.91	0.888	1.96	3.71	14.13	7.25	1.40	3.42	4.67	14.49	6.84	0.133	343.1
48.3	2.0	2.28	0.696	1.53	2.91	24.15	7.81	1.64	3.23	4.29	15.62	6.47	0.152	437.9
	2.5	2.82	0.861	1.90	3.60	19.32	9.46	1.62	3.92	5.25	18.92	7.83	0.152	354.1
	3.0	3.35	1.02	2.25	4.27	16.10	11.0	1.61	4.55	6.17	22.00	9.11	0.152	298.4
60.3	2.0	2.88	0.876	1.93	3.66	30.15	15.6	2.06	5.17	6.80	31.16	10.34	0.189	347.8
	2.5	3.56	1.09	2.39	4.54	24.12	19.0	2.05	6.30	8.36	37.99	12.60	0.189	280.6
	3.0	4.24	1.29	2.85	5.40	20.10	22.2	2.03	7.37	9.86	44.45	14.74	0.189	235.9
76.1	2.0	3.65	1.11	2.46	4.66	38.05	32.0	2.62	8.40	10.98	63.96	16.81	0.239	273.6
	2.5	4.54	1.38	3.05	5.78	30.44	39.2	2.60	10.30	13.55	78.37	20.60	0.239	220.4
	3.0	5.41	1.65	3.63	6.89	25.37	46.1	2.59	12.11	16.04	92.19	24.23	0.239	184.9
88.9	2.0	4.29	1.31	2.88	5.46	44.45	51.6	3.07	11.60	15.11	103.14	23.20	0.279	233.3
	2.5	5.33	1.62	3.58	6.79	35.56	63.4	3.06	14.26	18.67	126.75	28.51	0.279	187.7
	3.0	6.36	1.94	4.27	8.10	29.63	74.8	3.04	16.82	22.15	149.53	33.64	0.279	157.3
101.6	2.0	4.91	1.50	3.30	6.26	50.80	77.6	3.52	15.28	19.84	155.26	30.56	0.319	203.6
	2.5	6.11	1.86	4.11	7.78	40.64	95.6	3.50	18.82	24.56	191.22	37.64	0.319	163.7
	3.0	7.29	2.22	4.90	9.29	33.87	113.0	3.49	22.25	29.17	226.07	44.50	0.319	137.1
114.3	2.0	5.77	1.77	3.96	7.31	58.80	104.0	3.95	18.80	24.80	181.11	37.28	0.319	140.6
	2.5	7.11	2.17	4.78	9.06	46.1	129.0	3.95	20.81	27.81	218.11	44.50	0.319	114.1
	3.0	8.77	2.67	5.89	11.17	37.0	157.0	3.95	23.32	30.32	253.32	52.32	0.319	96.4
139.7	2.0	10.37	3.16	6.97	13.21	12.68	81.8	2.49	21.49	29.56	163.52	42.97	0.239	96.4
	2.5	12.83	3.91	8.62	16.35	14.11	140.2	2.93	31.55	43.07	280.47	63.10	0.239	92.2
	3.0	15.11	4.51	9.95	18.86	16.13	215.1	3.38	42.34	57.30	430.13	84.67	0.239	92.2
168.3	2.0	12.27	3.74	8.24	15.63	14.82	134.9	2.94	30.36	41.31	269.88	60.72	0.279	81.5
	2.5	15.11	4.51	9.95	18.86	16.13	215.1	3.38	42.34	57.30	430.13	84.67	0.279	77.9
	3.0	18.11	5.41	11.81	22.81	18.11	281.1	3.81	54.31	73.31	543.31	103.31	0.279	77.9
188.3	2.0	18.11	5.41	11.81	22.81	18.11	281.1	3.81	54.31	73.31	543.31	103.31	0.279	77.9
	2.5	22.11	6.61	14.41	28.11	22.11	341.1	4.41	66.31	88.31	663.31	128.31	0.279	77.9
	3.0	26.11	7.81	17.01	34.11	26.11	401.1	5.01	78.31	103.31	783.31	153.31	0.279	77.9

