STRUCTURAL
PURPOSE

MITRSTEEL

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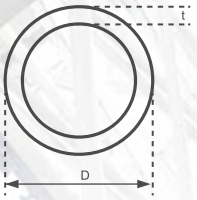
114/40 หมู่ 10 ตำบลหนองละลอก อำเภอบ้านค่าย
จังหวัดระยอง 21120 Tel. 66(0)3301-2436-8



COLD FORMED WELDED STRUCTURAL HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS

เหล็กงานโครงสร้าง

EN 10219

Normal Size	Outside diameter	Thickness	Mass / length	Cross Sectional Area	Geometrical moment of inertia	Modulus of section	Radius of gyration
mm	mm	mm	kg/m	cm^2	cm^4	cm^3	cm
1/2"	21.3	2.00	0.95	1.21	0.571	0.536	0.686
		2.50	1.16	1.48	0.664	0.623	0.671
		3.00	1.35	1.72	0.741	0.696	0.656
3/4"	26.9	2.00	1.23	1.56	1.22	0.907	0.883
		2.50	1.50	1.92	1.44	1.07	0.867
		3.00	1.77	2.25	1.63	1.21	0.852
1"	33.7	2.00	1.56	1.99	2.51	1.49	1.12
		2.50	1.92	2.45	3	1.78	1.11
		3.00	2.27	2.89	3.44	2.04	1.09
1 1/4"	42.4	2.00	1.99	2.54	5.19	2.45	1.43
		2.50	2.46	3.13	6.26	2.95	1.41
		3.00	2.91	3.71	7.25	3.42	1.4
		4.00	3.79	4.83	8.99	4.24	1.36
1 1/2"	48.3	2.00	2.28	2.91	7.81	3.23	1.64
		2.50	2.82	3.6	9.46	3.92	1.62
		3.00	3.35	4.27	11	4.55	1.61
		4.00	4.37	5.57	13.8	5.7	1.57
		5.00	5.34	6.8	16.2	6.69	1.54
2"	60.3	2.00	2.88	3.66	15.6	5.17	2.06
		2.50	3.56	4.54	19	6.3	2.05
		3.00	4.24	5.4	22.2	7.37	2.03
		4.00	5.55	7.07	28.2	9.34	2
		5.00	6.82	8.69	33.5	11.1	1.96
2 1/2"	76.1	2.00	3.65	4.66	32	8.4	2.62
		2.50	4.54	5.78	39.2	10.3	2.6
		3.00	5.41	6.89	46.1	12.1	2.59
		4.00	7.11	9.06	59.1	15.5	2.55
		5.00	8.77	11.2	70.9	18.6	2.52
		6.00	10.40	13.2	81.8	21.5	2.49
		6.30	10.80	13.8	84.8	22.3	2.48
3"	88.9	2.00	4.29	5.46	51.6	11.6	3.07
		2.50	5.33	6.79	63.4	14.3	3.06
		3.00	6.36	8.1	74.8	16.8	3.04
		4.00	8.38	10.7	96.3	21.7	3
		5.00	10.30	13.2	116	26.2	2.97
		6.00	12.30	15.6	135	30.4	2.94
		6.30	12.80	16.3	140	31.5	2.93
3 1/2"	101.6	2.00	4.91	6.26	77.6	15.3	3.52
		2.50	6.11	7.78	95.6	18.8	3.50
		3.00	7.29	9.29	113	22.3	3.49
		4.00	9.63	12.3	146	28.8	3.45
		5.00	11.90	15.2	177	34.9	3.42
		6.00	14.10	18	207	40.7	3.39
		6.30	14.80	18.9	215	42.3	3.38
4"	114.3	2.50	6.89	8.78	137	24	3.95
		3.00	8.23	10.5	163	28.4	3.94
		4.00	10.90	13.9	211	36.9	3.90
		5.00	13.50	17.2	257	45	3.87
		6.00	16.00	20.4	300	52.5	3.83
		6.30	16.80	21.4	313	54.7	3.82
		8.00	21.00	26.7	379	66.4	3.77
5"	139.7	3.00	10.10	12.9	301	43.1	4.83
		4.00	13.40	17.1	393	56.2	4.80
		5.00	16.60	21.2	481	68.8	4.77
		6.00	19.80	25.2	564	80.8	4.73
		6.30	20.70	26.4	589	84.3	4.72
		8.00	26.00	33.1	720	103	4.66
		10.00	32.00	40.7	862	123	4.60

Normal Size	Outside diameter	Thickness	Mass / length	Cross Sectional Area	Geometrical moment of inertia	Modulus of section	Radius of gyration
mm	mm	mm	kg/m	cm^2	cm^4	cm^3	cm
6"	168.3	3.00	12.20	15.6	532	63.3	5.85
		4.00	16.20	20.6	697	82.8	5.81
		5.00	20.10	25.7	856	102	5.78
		6.00	24.00	30.6	1009	120	5.74
		6.30	25.20	32.1	1053	125	5.73
		8.00	31.60	40.3	1297	154	5.67
		10.00	39.00	49.7	1564	186	5.61
7"	193.7	4.00	18.70	23.8	1073	111	6.71
		5.00	23.30	29.6	1320	136	6.67
		6.00	27.80	35.4	1560	161	6.64
		6.30	29.10	37.1	1630	168	6.63
		8.00	36.60	46.7	2016	208	6.57
		10.00	45.30	57.7	2442	252	6.50
		12.00	53.80	68.5	2839	293	6.44
		12.50	55.90	71.2	2934	303	6.42
8"	219.1	4.00	21.20	27	1564	143	7.61
		5.00	26.40	33.6	1928	176	7.57
		6.00	31.50	40.2	2282	208	7.54
		6.30	33.10	42.1	2386	218	7.53
		8.00	41.60	53.1	2960	270	7.47
		10.00	51.60	65.7	3598	328	7.40
		12.00	61.30	78.1	4200	383	7.33
		12.50	63.70	81.1	4345	397	7.32
10"	273	5.00	33.00	42.1	3781	277	9.48
		6.00	39.50	50.3	4487	329	9.44
		6.30	41.40	52.8	4696	344	9.43
		8.00	52.30	66.6	5852	429	9.37
		10.00	64.90	82.6	7154	524	9.31
		12.00	77.20	98.4	8396	615	9.24
		12.50	80.30	102	8697	637	9.22
12"	323.9	5.00	39.30	50.1	6369	393	11.3
		6.00	47.00	59.9	7572	468	11.2
		6.30	49.30	62.9	7929	490	11.2
		8.00	62.30	79.4	9910	612	11.2
		10.00	77.40	98.6	12158	751	11.1
		12.00	92.30	118	14320	884	11
		12.50	96.00	122	14847	917	11
14"	355.6	5.00	43.20	55.1	8464	476	12.4
		6.00	51.70	65.9	10071	566	12.4
		6.30	54.30	69.1	10547	593	12.4
		8.00	68.60	87.4	13201	742	12.3
		10.00	85.20	109	16223	912	12.2
		12.00	102.00	130	19139	1076	12.2
		12.50	106.00	135	19852	1117	12.1
16"	406.4	6.00	59.20	75.5	15128	745	14.2
		6.30	62.20	79.2	15849	780	14.1
		8.00	78.60	100	19874	978	14.1
		10.00	97.80	125	24476	1205	14
		12.00	117.00	149	28937	1424	14
		12.50	121.00	155	30031	1478	13.9

Dimension Tolerances
Outside Diameter with ±1%
a minimum of ± 0.5mm and
a maximum of ± 1.0 mm

Thickness :
D ≤ 406.4 mm : t ≤ 5 mm ± 10%
t > 5 mm ± 0.5 mm
D > 406.4 mm : 10% : with ±
a maximum of 2 mm
Weight : ± 6%