

# CARBON STEEL PIPES : ท่อกลมดำ มอก.

STANDARD TIS 104-2533 (มอก.107)

Nominal Dimension	Outside Deameter	Thickness	Calculate Weight	Informative Reference		
				Cross Sectional Area	Geometrical Moment of Inertia	Modulus of Section
(in.)	(mm.)	(mm.)	(kg./m.)	(cm <sup>2</sup> )	(cm <sup>4</sup> )	(cm <sup>3</sup> )
DN	D	T	W	A	I	Z
1/2"	21.7	2.00	0.972	1.24	0.61	0.56
3/4"	27.2	2.30	1.410	1.80	1.41	1.03
1"	34.0	2.30	1.800	2.29	2.89	1.70
1-1/4"	42.7	2.30	2.290	2.92	5.97	2.80
1-1/2"	48.6	2.30	2.630	3.34	8.99	3.70
		3.20	3.580	4.56	11.80	4.86
2"	60.5	3.20	4.520	5.76	23.70	7.84
		4.00	5.570	7.10	28.50	9.41
2-1/2"	76.3	3.20	5.770	7.35	49.20	12.90
		4.00	7.130	9.08	59.50	15.60
3"	89.1	3.20	6.780	8.64	79.80	17.90
		4.00	8.390	10.70	97.00	21.80
3-1/2"	101.6	3.20	7.760	9.89	120.00	23.60
		4.00	9.630	12.30	146.00	28.80
4"	114.3	3.20	8.770	11.17	172.00	30.20
		4.50	12.200	15.52	234.00	41.00
		5.60	15.000	19.12	283.00	49.60
5"	139.8	4.50	15.000	19.13	438.00	62.70

		6.00	19.800	25.22	566.00	80.90
<b>6"</b>	<b>165.2</b>	4.50	17.800	22.72	734.00	88.90
		6.00	23.600	30.01	952.00	115.00
<b>8"</b>	<b>216.3</b>	6.00	31.100	39.61	2190.00	203.00
		8.00	41.100	52.35	2840.00	263.00

<b>Radius of Gyration</b>
<b>(cm.)</b>
<b>i</b>
0.70
0.88
1.12
1.43
1.64
1.61
2.03
2.00
2.59
2.56
3.04
3.01
3.48
3.45
3.93
3.89
3.85
4.79

4.74
5.68
5.63
7.44
7.37