

CARBON STEEL PIPES : ท่อกลมดำทั่วไป

Nominal Dimention	Outside Deameter	Thickness	Calculate Weight	Informative Reference			
				Cross Sectional Area	Geometrical Moment of Inertia	Modulus of Section	Radius of Gyration
(in.)	(mm.)	(mm.)	(kg./m.)	(cm ²)	(cm ⁴)	(cm ³)	(cm.)
DN	D	T	W	A	I	Z	i
1/2" (15)	21.3	1.00	0.500	0.64	0.33	0.31	0.72
		1.20	0.590	0.76	0.38	0.36	0.71
		1.40	0.690	0.88	0.44	0.41	0.71
		1.60	0.780	0.99	0.48	0.45	0.70
		1.80	0.870	1.10	0.53	0.50	0.69
		2.00	0.950	1.21	0.57	0.54	0.69
		2.30	1.080	1.37	0.63	0.59	0.68
		2.50	1.160	1.48	0.66	0.62	0.67
		2.80	1.280	1.63	0.71	0.67	0.66
3/4" (20)	26.9	1.00	0.640	0.81	0.68	0.51	0.92
		1.20	0.760	0.97	0.80	0.60	0.91
		1.40	0.880	1.12	0.91	0.68	0.90
		1.60	1.000	1.27	1.02	0.76	0.90
		1.80	1.110	1.42	1.12	0.84	0.89
		2.00	1.230	1.56	1.22	0.91	0.88
		2.30	1.400	1.78	1.36	1.01	0.97
		2.50	1.500	1.92	1.44	1.07	0.97
		2.80	1.660	2.12	1.56	1.16	0.86
1" (25)	33.7	1.20	0.960	1.23	1.62	0.96	1.15
		1.40	1.120	1.42	1.86	1.10	1.14
		1.60	1.270	1.61	2.08	1.24	1.14
		1.80	1.420	1.80	2.30	1.37	1.13
		2.00	1.560	1.99	2.51	1.49	1.12
		2.30	1.780	2.27	2.81	1.67	1.11
		2.50	1.920	2.45	3.00	1.78	1.11
		2.80	2.130	2.72	3.27	1.94	1.10
		3.00	2.270	2.89	3.44	2.04	1.09
		3.20	2.410	3.07	3.60	2.14	1.08
		3.50	2.610	3.32	3.84	2.28	1.07

1 1/4" (32)	42.4	1.40	1.420	1.80	3.79	1.79	1.45
		1.60	1.610	2.05	4.27	2.02	1.44
		1.80	1.800	2.30	4.74	2.24	1.44
		2.00	1.990	2.54	5.19	2.45	1.43
		2.30	2.270	2.90	5.84	2.76	1.42
		2.50	2.460	3.13	6.26	2.95	1.41
		2.80	2.730	3.48	6.86	3.24	1.40
		3.00	2.910	3.71	7.25	3.42	1.40
		3.20	3.090	3.94	7.62	3.59	1.39
		3.50	3.360	4.28	8.16	3.85	1.38
1 1/2" (40)	48.3	1.40	1.620	2.06	5.68	2.35	1.66
		1.60	1.840	2.35	6.41	2.65	1.65
		1.80	2.060	2.63	7.12	2.95	1.65
		2.00	2.280	2.91	7.81	3.23	1.64
		2.30	2.610	3.32	8.81	3.65	1.63
		2.50	2.820	3.60	9.46	3.92	1.62
		2.80	3.140	4.00	10.40	4.31	1.61
		3.00	3.350	4.27	11.00	4.55	1.61
		3.20	3.560	4.53	11.59	4.80	1.60
		3.50	3.870	4.93	12.43	5.15	1.59
4.00	4.370	5.57	13.77	5.70	1.57		
2" (50)	60.3	1.40	2.030	2.59	11.24	3.73	2.08
		1.60	2.320	2.95	12.72	4.22	2.08
		1.80	2.600	3.31	14.16	4.70	2.07
		2.00	2.880	3.66	15.58	5.17	2.06
		2.30	3.290	4.19	17.65	5.85	2.05
		2.50	3.560	4.54	18.99	6.30	2.05
		2.80	3.970	5.06	20.95	6.95	2.04
		3.00	4.240	5.40	22.22	7.37	2.03
		3.20	4.510	5.74	23.47	7.78	2.02
		3.50	4.900	6.25	25.28	8.39	2.01
4.00	5.550	7.07	28.17	9.34	2.00		
2-1/2" (65)	76.1	2.00	3.650	4.66	31.98	8.40	2.62
		2.30	4.190	5.33	36.34	9.55	2.61
		2.50	4.540	5.78	39.19	10.30	2.60
		2.80	5.060	6.45	43.37	11.40	2.59
		3.00	5.410	6.89	46.10	12.11	2.59
		3.20	5.750	7.33	48.78	12.82	2.58
		3.50	6.270	7.98	52.72	13.85	2.57
		4.00	7.110	9.06	59.06	15.52	2.55
		4.50	7.950	10.12	65.12	17.11	2.54
5.00	8.770	11.17	70.92	18.64	2.52		

3" (80)	88.9	2.00	4.290	5.46	51.57	11.60	3.07
		2.30	4.910	6.26	58.70	13.21	3.06
		2.50	5.330	6.79	63.37	14.26	3.06
		2.80	5.950	7.57	70.26	15.81	3.05
		3.00	6.360	8.10	74.76	16.82	3.04
		3.20	6.760	8.62	79.21	17.82	3.03
		3.50	7.370	9.39	85.75	19.29	3.02
		4.00	8.380	10.67	96.34	21.67	3.00
		4.50	9.370	11.93	106.54	23.97	2.99
		5.00	10.350	13.18	116.37	26.18	2.97
3-1/2" (90)	101.6	2.50	6.110	7.78	95.61	18.82	3.50
		2.80	6.820	8.69	106.13	20.89	3.49
		3.00	7.290	9.29	113.04	22.25	3.49
		3.20	7.770	9.89	119.85	23.59	3.48
		3.50	8.470	10.79	129.92	25.58	3.47
		4.00	9.630	12.26	146.28	28.80	3.45
		4.50	10.780	13.73	162.13	31.92	3.44
		5.00	11.910	15.17	177.47	34.93	3.42
4" (100)	114.3	2.50	6.890	8.78	137.26	24.02	3.95
		2.80	7.700	9.81	152.52	26.69	3.94
		3.00	8.230	10.49	162.55	28.44	3.94
		3.20	8.770	11.17	172.47	30.18	3.93
		3.50	9.560	12.18	187.15	32.75	3.92
		4.00	10.880	13.86	211.07	36.93	3.90
		4.50	12.190	15.52	234.32	41.00	3.89
		5.00	13.480	17.17	256.92	44.96	3.87
		6.00	16.030	20.41	300.21	52.53	3.83
5" (125)	139.7	3.20	10.770	13.72	319.78	45.78	4.83
		3.50	11.760	14.98	347.49	49.75	4.82
		4.00	13.390	17.05	392.86	56.24	4.80
		4.50	15.000	19.11	437.20	62.59	4.78
		5.00	16.610	21.16	480.54	68.80	4.77
		6.00	19.780	25.20	564.26	80.78	4.73
6" (150)	168.3	3.20	13.030	16.60	565.74	67.23	5.84
		3.50	14.220	18.12	615.45	73.14	5.83
		4.00	16.210	20.65	697.09	82.84	5.81
		4.50	18.180	23.16	777.22	92.36	5.79
		5.00	20.140	25.65	855.85	101.70	5.78
		6.00	24.020	30.59	1008.69	119.87	5.74
		7.00	27.850	35.47	1155.79	137.35	5.71
		9.00	35.360	45.04	1433.29	170.33	5.64

8" (200)	219.1	4.50	23.820	30.34	1747.24	159.49	7.59
		5.00	26.400	33.63	1928.04	176.00	7.57
		6.00	31.530	40.17	2281.95	208.30	7.54
		7.00	36.610	46.64	2625.75	239.68	7.50
		9.00	46.630	59.40	3283.8	299.75	7.43
		12.00	61.290	78.07	4199.88	383.38	7.33
10" (250)	273.0	4.50	29.800	37.96	3421.58	250.67	9.49
		5.00	33.050	42.10	3780.81	276.98	9.48
		6.00	39.510	50.33	4487.08	328.72	9.44
		7.00	45.920	58.50	5177.3	379.29	9.41
		9.00	58.600	74.64	6510.56	476.96	9.34
		12.00	77.240	98.39	8396.14	615.10	9.24
12" (300)	323.8	5.00	39.310	50.08	6363.44	393.05	11.27
		6.00	47.020	59.90	7565.33	467.28	11.24
		7.00	54.690	69.67	8744.31	540.11	11.20
		9.00	69.870	89.01	11034.72	681.58	11.13
		12.00	92.270	117.55	14305.80	883.62	11.03
		14.00	106.960	136.26	16380.16	1011.75	10.96
14" (350)	355.6	6.00	51.730	65.90	10070.55	566.40	12.36
		7.00	60.180	76.66	11649.71	655.21	12.33
		9.00	76.930	98.00	14725.86	828.23	12.26
		12.00	101.680	129.53	19139.47	1076.46	12.16
		14.00	117.940	150.24	21951.81	1234.64	12.09
		16.00	134.000	170.70	24663.00	1387.12	12.02
16" (400)	406.4	6.00	59.250	75.47	15128.33	744.50	14.16
		7.00	68.950	87.83	17519.25	862.17	14.12
		9.00	88.200	112.36	22192.62	1092.16	14.05
		12.00	116.720	148.69	28937.01	1424.07	13.95
		14.00	135.480	172.59	33260.39	1636.83	13.88
		16.00	154.050	196.24	37448.82	1842.95	13.81
18" (450)	457.0	6.00	66.730	85.01	21618.10	946.09	15.95
		7.00	77.680	98.96	25055.35	1096.51	15.91
		9.00	99.440	126.67	31791.55	1391.32	15.84
		12.00	131.690	167.76	41556.30	1818.66	15.74
		14.00	152.950	194.84	47844.57	2093.85	15.67
		16.00	174.010	221.67	53959.38	2361.46	15.60