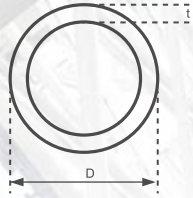




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จังหวัดระยอง 21120 Tel. 66(0)3301-2436-8



CARBON STEEL PIPE

เหล็กงานโครงสร้าง

TIS 107

MATERIAL OF GRADE	CHEMICAL COMPOSITION (%)					MECHANICAL PROPERTIES			COLOR CODE
	C Max	Si Max	Mn Max	P Max	S Max	Yield Strength	Tensile Strength	Elongation	Material of Grade
						N/m ²	N/m ²	%	
HS 41	0.280	-	-	0.048	0.048	235	402	23	GREEN
HS 50	0.210	0.570	1.530	0.048	0.048	314	490	23	RED
HS 51	0.330	0.370	0.330-1.030	0.048	0.048	353	500	15	WHITE

Nominal size		Thickness mm	Weight (plain end) kg/m	Cross sectional area	Geometrical moment of inertia	Modulus of section	Radius of gyration
in	mm	STD	STD	cm ²	cm ⁴	cm ³	cm
1/2"	15	2.00	0.97	1.238	0.607	0.56	0.70
3/4"	20	2.30	1.41	1.799	1.41	1.03	0.88
1"	25	2.30	1.80	2.291	2.89	1.70	1.12
1 1/4"	32	2.30	2.29	2.919	5.97	2.80	1.43
1 1/2"	40	2.30	2.63	3.345	8.99	3.70	1.64
		3.20	3.58	4.564	11.8	4.86	1.61
2"	50	3.20	4.52	5.760	23.7	7.84	2.03
		4.00	5.57	7.100	28.5	9.41	2
2 1/2"	65	3.20	5.77	7.349	49.2	12.9	2.59
		4.00	7.13	9.085	59.5	15.6	2.56
3"	80	3.20	6.78	8.636	79.8	17.9	3.04
		4.00	8.39	10.69	97	21.8	3.01
3 1/2"	90	3.20	7.76	9.892	120	23.6	3.48
		4.00	9.63	12.26	146	28.8	3.45
4"	100	3.20	8.77	11.17	172	30.2	3.93
		4.50	12.20	15.52	234	41	3.89
		5.60	15.00	19.12	283	49.6	3.85
5"	125	4.50	15.00	19.13	438	62.7	4.79
		6.00	19.80	25.22	566	80.9	4.74
6"	150	4.50	17.80	22.72	734	88.9	5.68
		6.00	23.60	30.01	952	115	5.63
7"	175	5.00	22.90	29.17	1260	132	6.57
		7.00	31.70	40.40	1710	179	6.50
8"	200	6.00	31.10	39.61	2190	203	7.44
		8.00	41.10	52.35	2840	263	7.37

Dimension Tolerances

Outside Diameter : $\leq 50 \text{ mm} : \pm 0.5 \text{ mm}$
 $> 50 \text{ mm} : \pm 1\%$

Thickness : $2.0 \leq t \leq 3.2 : \pm 0.30 \text{ mm}$
 $4.0 \leq t \leq 8.0 : \pm 10\%$

Weight : $\pm 10\%$