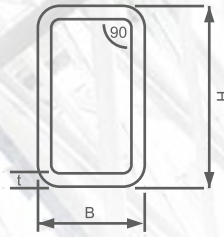




MITRSTEEL

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



CARBON STEEL RECTANGULAR 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/mm ²	N/mm 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	

Nominal size		Thickness mm	Weight (plain end) kg/m	Cross sectional area cm ²	Geometrical moment of inertia cm ⁴		Modulus of section cm ³		Radius of gyration cm	
A	B	STD	STD	STD	Ix	Iy	Zx	Zy	ix	iy
50	25	2.30	2.44	3.102	9.31	3.1	3.72	2.48	1.73	1
		3.20	3.24	4.127	11.6	3.8	4.65	3.04	1.68	0.96
60	30	2.30	2.98	3.792	16.8	5.65	5.61	3.76	2.11	1.22
		3.20	3.99	5.087	21.4	7.08	7.15	4.72	2.05	1.18
75	38	2.30	3.81	4.85	34.6	12	9.23	6.3	2.67	1.57
		3.20	5.15	6.559	45	15.4	12	8.09	2.62	1.53
75	45	2.30	4.06	5.172	38.9	17.6	10.4	7.82	2.74	1.84
		3.20	5.50	7.007	50.8	22.8	13.5	10.1	2.69	1.8
90	45	2.30	4.60	5.862	61	20.8	13.6	9.22	3.23	1.88
		3.20	6.25	7.967	80.2	27.0	17.8	12.0	3.17	1.84
100	50	3.20	7.01	8.927	112	38	22.5	15.2	3.55	2.06
		4.00	8.59	10.95	142	46.7	28.4	18.7	3.55	2.03
		4.50	9.55	12.17	147	48.9	29.3	19.5	3.47	2
125	50	3.20	8.26	10.53	198	46.7	31.6	18.7	4.33	2.11
		4.00	10.2	12.95	238	55.6	38	22.6	4.28	2.07
		4.50	11.3	14.42	261	60.6	41.7	24.2	4.25	2.05
125	75	3.20	9.52	12.13	257	117	41.1	31.1	4.6	3.1
		4.00	11.70	14.95	311	141	49.7	37.5	4.56	3.07
		4.50	13.10	16.67	342	155	54.8	41.2	4.53	3.04
150	80	4.50	15.20	19.37	563	211	75	52.9	5.39	3.3
		6.00	19.80	25.23	710	264	94.7	66.1	5.31	3.24
150	100	4.50	16.60	21.17	658	352	87.7	70.4	5.58	4.08
		6.00	21.70	27.63	835	444	111	88.8	5.50	4.01
200	100	4.50	20.10	25.67	1330	455	133	90.9	7.2	4.21
		6.00	26.40	33.63	1700	577	170	115	7.12	4.14

Dimension Tolerances

Outside Diameter: $b \leq 100 \text{ mm} : \pm 1.5 \text{ mm}$
 $b > 100 \text{ mm} : \pm 1.5\%$

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

Weight : $\pm 10\%$