TIS 107

Hollow Structural Steel Sections : Rectangular Tubes

ท่อเหล็กรูปสี่เหลี่ยมผืนผ้า สำหรับงานโครงสร้าง

Grade	% Chemical Composition (Max)					Mechanical Properties (Min)			Marking Color
	C	Si	Mn	P	S	Yield Strength	Tensile Strength	Elongation	
						MPa	MPa	%	
HS 41	0.28	-	-	0.048	0.048	235	402	23	Green
HS 50	0.21	0.57	1.53	0.048	0.048	314	490	23	Red

Nominal Size A x B	Thickness (t)	Weight	Cross Sectional Area	Geometrical Moment of Inertia		Modulus of Section		Radius of Gyration	
				Ix	Iy	Zx	Zy	ix	iy
mm	mm	kg/m	cm^2	cm^4	cm^4	cm^3	cm^3	cm	cm
50 x 25	2.3	2.44	3.102	9.31	3.10	3.72	2.48	1.73	1.00
	3.2	3.24	4.127	11.6	3.80	4.65	3.04	1.68	0.96
60 x 30	2.3	2.98	3.792	16.8	5.65	5.61	3.76	2.11	1.22
	3.2	3.99	5.087	21.4	7.08	7.15	4.72	2.05	1.18
75 x 38	2.3	3.81	4.850	34.6	12.0	9.23	6.30	2.67	1.57
	3.2	5.15	6.559	45.0	15.4	12.0	8.09	2.62	1.53
75 x 45	2.3	4.06	5.172	38.9	17.6	10.4	7.82	2.74	1.84
	3.2	5.50	7.007	50.8	22.8	13.5	10.1	2.69	1.80
100 x 50	3.2	7.01	8.927	112	38.0	22.5	15.2	3.55	2.06
	4.0	8.59	10.95	142	46.7	28.4	18.7	3.55	2.03
	4.5	9.55	12.17	147	48.9	29.3	19.5	3.47	2.00
125 x 75	3.2	9.52	12.13	257	117	41.1	31.1	4.60	3.10
	4.0	11.7	14.95	311	141	49.7	37.5	4.56	3.07
	4.5	13.1	16.67	342	155	54.8	41.2	4.53	3.04
150 x 80	4.5	15.2	19.37	563	211	75.0	52.9	5.39	3.30
	6.0	19.8	25.23	710	264	94.7	66.1	5.31	3.24
200 x 100	4.5	20.1	25.67	1330	455	133	90.9	7.20	4.21
	6.0	26.4	33.63	1700	577	170	115	7.12	4.14

	Length of Side	Thickness	Weight
Dimension Tolerances	A,B ≤ 100 mm : ±1.5 mm A,B > 100 mm : ±1.5%	2.0 mm ≤ t ≤ 3.2 mm : ±0.3 mm 4.0 mm ≤ t ≤ 12.0 mm : ±10%	±10%