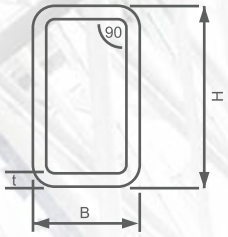
STRUCTURAL PURPOSE

MITRSTEEL

บริษัท มิตรสตีล จำกัด www.mitrsteel.com
114/40 หมู่ 10 ตำบลหนองละลอก อำเภอบ้านค่าย
จังหวัดระยอง 21120 Tel. 66(0)3301-2436-8



RECTANGULAR HOLLOW SECTION STEEL PIPE

เหล็กงานโครงสร้าง

AS 1163

GRADES	CHEMICAL COMPOSITION (CAST OR PRODUCT ANALYSIS) % MAX							MECHANICAL PROPERTIES			
	C	Si	Mn	P	S	Al	CE	Yield Strength	Tensile Strength	Circular Hollow Sections	Rectangle Hollow Sections
C250, C250L0	0.120	0.050	0.500	0.030	0.030	0.10	0.250	250	320	22	18
C350, C350L0	0.200	0.450	1.600	0.030	0.030	0.10	0.430	350	430	20	16
C450, C450L0	0.200	0.450	1.700	0.030	0.030	0.10	0.430	450	500	16	14

C350

Nominal Size		Thick-ness	Mass per unit length	Cross Sectional Area	Geometrical moment of inertia		Modulus of section		Radius of gyration	
mm	in	mm	kg/m	mm^2	Ix (10^6 mm^4)	Iy (10^6 mm^4)	Zx (10^3 mm^3)	Zy (10^3 mm^3)	ix (mm)	iy (mm)
50 x 20	2" x 3/4"	1.60	1.63	207	0.061	0.014	2.43	1.42	17.1	8.29
		2.00	1.99	254	0.072	0.017	2.89	1.67	16.9	8.11
		2.50	2.42	309	0.085	0.019	3.39	1.92	16.6	7.89
		3.00	2.83	361	0.095	0.021	3.81	2.12	16.2	7.67
50 x 25	2" x 1"	1.60	1.75	223	0.070	0.024	2.81	1.9	17.7	10.3
		2.00	2.15	274	0.084	0.028	3.35	2.25	17.5	10.1
		2.50	2.62	334	0.099	0.033	3.95	2.62	17.2	9.91
		3.00	3.07	391	0.112	0.037	4.47	2.93	16.9	9.69
65 x 35	2 1/2" x 1 3/8"	2.00	2.93	374	0.204	0.078	6.28	4.44	23.4	14.4
		2.50	3.60	459	0.244	0.093	7.52	5.29	23.1	14.2
		3.00	4.25	541	0.281	0.106	8.65	6.04	22.8	14.0
75 x 25	3" x 1"	1.60	2.38	303	0.197	0.035	5.26	2.78	25.5	10.7
		2.00	2.93	374	0.238	0.041	6.36	3.31	25.3	10.5
		2.50	3.60	459	0.285	0.049	7.60	3.89	24.9	10.3
75 x 50	3" x 2"	2.00	3.72	474	0.372	0.199	9.91	7.96	28	20.5
		2.50	4.58	584	0.450	0.240	12.0	9.60	27.7	20.3
		3.00	5.42	691	0.522	0.278	13.9	11.1	27.5	20.0
		4.00	6.92	881	0.630	0.335	16.8	13.4	26.7	19.5
100 x 50	4" x 2"	2.00	4.50	574	0.750	0.257	15.0	10.3	36.2	21.2
		2.50	5.56	709	0.912	0.311	18.2	12.4	35.9	20.9
		3.00	6.60	841	1.06	0.361	21.3	14.4	35.6	20.7
		3.50	7.53	959	1.18	0.400	23.6	16.0	35.1	20.4
		4.00	8.49	1080	1.31	0.441	26.1	17.6	34.8	20.2
		5.00	10.30	1310	1.53	0.511	30.6	20.4	34.1	19.7
		6.00	12.00	1530	1.71	0.567	34.2	22.7	33.4	19.2
125 x 75	5" x 3"	3.00	8.96	1140	2.43	1.11	38.9	29.5	46.1	31.1
		4.00	11.60	1480	3.05	1.39	48.9	37	45.4	30.6
		5.00	14.20	1810	3.64	1.65	58.3	43.9	44.8	30.1
150 x 50	6" x 2"	3.00	8.96	1140	2.99	0.526	39.8	21.1	51.2	21.5
		4.00	11.60	1480	3.74	0.653	49.8	26.1	50.2	21.0
		5.00	14.20	1810	4.44	0.765	59.2	30.6	49.5	20.5
150 x 100	6" x 4"	4.00	14.80	1880	5.87	3.15	78.2	63.0	55.9	40.9
		5.00	18.20	2310	7.07	3.79	94.3	75.7	55.3	40.4
		6.00	21.40	2730	8.17	4.36	109	87.3	54.7	40.0
200 x 100	8" x 4"	4.00	17.90	2280	11.9	4.07	119	81.5	72.1	42.3
		5.00	22.10	2810	14.4	4.92	144	98.3	71.5	41.8
		6.00	26.20	3330	16.7	5.69	167	114	70.8	41.3
		9.00	37.70	4800	22.8	7.64	228	153	68.9	39.9
250 x 150	10" x 6"	5.00	29.90	3810	32.7	15.0	262	199	92.6	62.6
		6.00	35.60	4530	38.4	17.5	307	233	92.0	62.2
		9.00	51.80	6600	53.7	24.3	430	324	90.2	60.7

C450

Nominal Size		Thick-ness	Mass per unit length	Cross Sectional Area	Geometrical moment of inertia		Modulus of section		Radius of gyration	
mm	in	mm	kg/m	mm^2	Ix (10^6 mm^4)	Iy (10^6 mm^4)	Zx (10^3 mm^3)	Zy (10^3 mm^3)	ix (mm)	iy (mm)
50 x 20	2" x 3/4"	2.30	2.25	287	0.080	0.018	3.20	1.83	16.7	7.98
		2.80	2.67	340	0.091	0.021	3.65	2.05	16.4	7.76
50 x 25	2" x1"	2.30	2.44	310	0.093	0.031	3.72	2.48	17.3	10
		2.80	2.89	368	0.107	0.035	4.27	2.82	17	9.78
65 x 35	2 1/2" x 1 3/8"	2.30	3.34	425	0.229	0.087	7.04	4.96	23.2	14.3
		2.80	3.99	508	0.267	0.101	8.21	5.75	22.9	14.1
75 x 50	3" x 2"	2.30	4.24	540	0.419	0.224	11.2	8.96	27.9	20.4
		2.80	5.09	648	0.493	0.263	13.2	10.5	27.6	20.1
100 x 50	4" x 2"	2.30	5.14	655	0.848	0.29	17	11.6	36	21
		2.80	6.19	788	1.00	0.341	20.1	13.6	35.7	20.8
		3.30	7.14	909	1.13	0.383	22.6	15.3	35.2	20.5
125 x 75	5" x 3"	2.80	8.39	1070	2.29	1.04	36.6	27.8	46.2	31.2
		3.30	9.73	1240	2.60	1.19	41.6	31.6	45.8	30.9
		3.80	11.10	1410	2.93	1.33	46.8	35.5	45.5	30.7

Dimension Tolerances
Outside Diameter: ± 1%, with minimum of ± 0.5 mm.
Thickness : ±10%
Weight : -4%