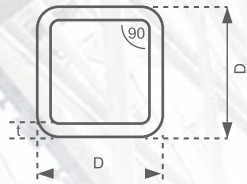




บริษัท มิตรสตีล จำกัด www.mitrsteel.com
114/40 หมู่ 10 ตำบลหนองละลอก อำเภอบ้านค่าย
จังหวัดระยอง 21120 Tel. 66(0)3301-2436-8



SQUARE 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 Hol - low 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		Thickness	Mass per unit length	Cross Sectional Area	Geo - metrical moment of inertia (10^6 mm^4)	Modulus of section (10^3 mm^3)	Radius of gyration (mm)
mm	in	mm	kg/m	mm^2	Ix,Iy	Zx,Zy	ix,iy
20 x 20	3/4" x 3/4"	1.60	0.87	111	0.006	0.608	7.39
25 x 25	1" x 1"	1.60	1.12	143	0.013	1.02	9.44
		2.00	1.36	174	0.015	1.19	9.24
		2.50	1.64	209	0.017	1.35	8.99
		3.00	1.89	241	0.018	1.47	8.74
30 x 30	1 1/8" x 1 1/8"	1.60	1.38	175	0.023	1.54	11.5
		2.00	1.68	214	0.027	1.81	11.3
35 x 35	1 3/8" x 1 3/8"	1.60	1.63	207	0.038	2.16	13.5
		2.00	1.99	254	0.045	2.58	13.3
		2.50	2.42	309	0.053	3.02	13.1
		3.00	2.83	361	0.060	3.4	12.8
40 x 40	1 1/2" x 1 1/2"	1.60	1.88	239	0.058	2.9	15.6
		2.00	2.31	294	0.069	3.47	15.4
		2.50	2.82	359	0.082	4.11	15.1
		4.00	4.09	521	0.105	5.26	14.2
50 x 50	2" x 2"	1.60	2.38	303	0.117	4.68	19.6
		2.00	2.93	374	0.141	5.66	19.5
		2.50	3.60	459	0.169	6.78	19.2
		3.00	4.25	541	0.195	7.79	19.0
65 x 65	2 1/2" x 2 1/2"	2.00	3.88	494	0.323	9.94	25.6
		2.50	4.78	609	0.391	12.0	25.3
		3.00	5.66	721	0.454	14.0	25.1
75 x 75	3" x 3"	2.50	5.56	709	0.614	16.4	29.4
		3.00	6.60	841	0.716	19.1	29.2
		3.50	7.53	959	0.797	21.3	28.8
		4.00	8.49	1080	0.882	23.5	28.6
		5.00	10.30	1310	1.03	27.5	28.0
89 x 89	3 1/2" x 3 1/2"	3.50	9.06	1150	1.37	30.9	34.5
		5.00	12.50	1590	1.81	40.7	33.7
		6.00	14.60	1870	2.06	46.2	33.2
100 x 100	4" x 4"	3.00	8.96	1140	1.77	35.4	39.4
		4.00	11.60	1480	2.23	44.6	38.8
		5.00	14.20	1810	2.66	53.1	38.3
		6.00	16.70	2130	3.04	60.7	37.7
		9.00	23.50	3000	3.91	78.1	36.1

Nominal Size		Thickness	Mass per unit length	Cross Sectional Area	Geo - metrical moment of inertia (10^6 mm^4)	Modulus of section (10^3 mm^3)	Radius of gyration (mm)
mm	in	mm	kg/m	mm^2	Ix,Iy	Zx,Zy	ix,iy
125 x 125	5" x 5"	4.00	14.80	1880	4.52	72.3	49.0
		5.00	18.20	2310	5.44	87.1	48.5
		6.00	21.40	2730	6.29	101	48.0
		9.00	30.60	3900	8.38	134	46.4
150 x 150	6" x 6"	5.00	22.10	2810	9.70	129	58.7
		6.00	26.20	3330	11.3	150	58.2
		9.00	37.70	4800	15.4	205	56.6
200 x 200	8" x 8"	5.00	29.90	3810	23.9	239	79.1
		6.00	35.60	4530	28.0	280	78.6
		9.00	51.80	6600	39.2	392	77.1
250 x 250	10" x 10"	6.00	45.00	5730	56.2	450	99.0
		9.00	65.90	8400	79.8	639	97.5

C450

Nominal Size		Thickness	Mass per unit length	Cross Sectional Area	Geo - metrical moment of inertia (10^6 mm^4)	Modulus of section (10^3 mm^3)	Radius of gyration (mm)
mm	in	mm	kg/m	mm^2	Ix,Iy	Zx,Zy	ix,iy
25 x 25	1" x 1"	2.30	1.53	195	0.016	1.29	9.09
35 x 35	1 3/8" x 1 3/8"	2.30	2.25	287	0.050	2.85	13.20
		2.80	2.67	340	0.057	3.26	12.90
50 x 50	2" x 2"	2.30	3.34	425	0.159	6.34	19.30
		2.80	3.99	508	0.185	7.40	19.10
65 x 65	2 1/2" x 2 1/2"	2.30	4.42	563	0.364	11.2	25.40
75 x 75	3" x 3"	2.30	5.14	655	0.571	15.2	29.50
		2.80	6.19	788	0.676	18	29.30
		3.30	7.14	909	0.761	20.3	28.90
100 x 100	4" x 4"	2.80	8.39	1070	1.670	33.3	39.50
		3.30	9.73	1240	1.900	38	39.20
		3.80	11.10	1410	2.140	42.7	38.90

Dimension Tolerances
 Outside Diameter: $\pm 1\%$, with minimum of $\pm 0.5 \text{ mm}$.
 Thickness : $\pm 10\%$
 Weight : -4%