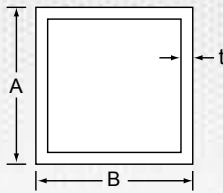




JIS G 3466-1988

STKR 41

Carbon steel Square and Rectangular Pipes for General Engineering



Square Pipe

Section Efficiency of Square and Rectangular Steel Pipe

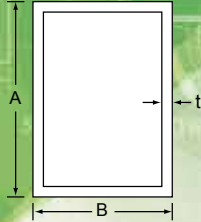
Moment of Inertia : $I = \frac{1}{12}BA^3 - \frac{1}{12}(B-2t)(a-2t)^3$

Radius of Gyration : $r = \sqrt{\frac{I}{A}} = \sqrt{\frac{A-2E}{12}}$

Section Modulus : $Z = \frac{1}{6}BA^2 - \frac{1}{6}(B-2t)(a-2t)^2$

Side Length A x B		Wall Thickness	Unit Mass w		Packing
Inch	mm.		kg/m	kg/6m	
3/4 x 3/4	19.1 x 19.1	1.20	0.65	3.87	256
		1.60	0.83	4.96	256
7/8 x 7/8	22.1 x 22.1	1.20	0.76	4.55	256
		1.60	0.98	5.87	256
1 x 1	25.4 x 25.4	2.00	1.18	7.09	256
		1.20	0.88	5.30	196
		1.60	1.14	6.86	196
1 1/4 x 1 1/4	31.8 x 31.8	2.00	1.39	8.33	196
		1.20	1.12	6.74	130
		1.60	1.47	8.79	130
1 1/2 x 1 1/2	38.1 x 38.1	2.00	1.79	10.74	130
		1.20	1.36	8.17	120
		1.60	1.78	10.69	120
2 x 2	50.8 x 50.8	2.00	2.19	13.12	120
		1.60	2.42	14.52	63
		2.00	2.98	17.90	63
		2.30	3.40	20.40	63
2 1/2 x 2 1/2	63.5 x 63.5	3.20	4.58	27.46	63
		1.60	3.06	18.36	42
		2.30	4.31	25.86	42
		3.20	5.85	35.10	42
3 x 3	75 x 75	1.60	3.64	21.82	30
		2.30	5.14	30.86	30
		3.20	7.01	42.05	30
		4.50	9.55	57.31	30
4 x 4	100 x 100	2.30	6.95	41.69	20
		3.20	9.52	57.12	20
		4.00	11.73	70.41	20
		4.50	13.08	78.51	20
5 x 5	125 x 125	3.20	12.03	72.19	14
		4.50	16.62	99.70	14
		5.00	18.33	110.01	14
		6.00	21.69	130.15	14
6 x 6	150 x 150	4.50	20.15	120.90	9
		5.00	22.26	133.56	9
		6.00	26.40	158.41	9

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Rectangular Pipe

Dimension Tolerance :

Length of side	: 100 mm. Or under : +/- 1.50 mm.
	: Over 100 mm. +/- 1.50%
Length	: + not specified. -0
Wall Thickness	: Under 3.00 mm. : +/- 0.30 mm.
	: 3.00 mm. or over : +/-10%
Weight	: +/-10%

SCOPE

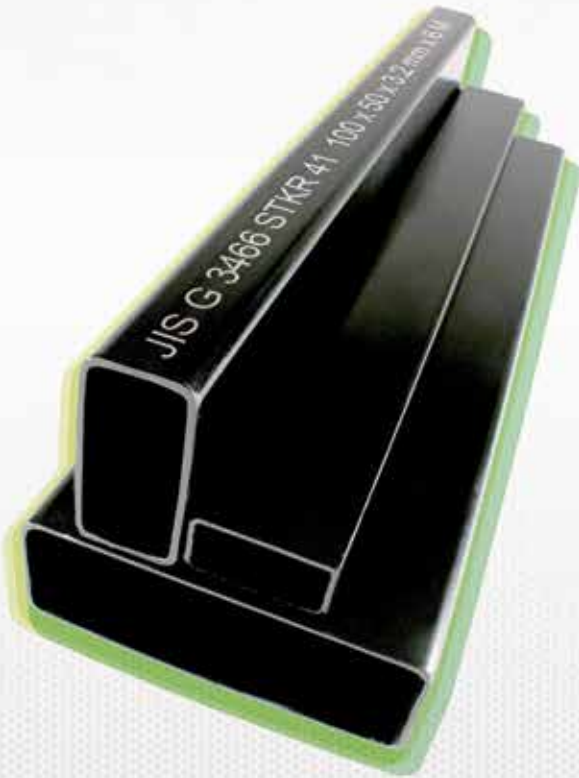
This Japanese Industrial Standard specifies the carbon steel square pipes used for civil engineering, architecture and other structures.

MANUFACTURE OF PRODUCT

COTCO-SV pipes shall be manufactured by Electrical Resistance Welding process. Our quality production process had been certified by international inspection agent "SGS" under ISO 9001: 2000.

PRODUCTION CAPACITY

Carbon steel square pipes 8,500 Mt. per Month



Side Length A x B		Wall Thickness	Unit Mass w		Packing
Inch	mm.	mm.	kg./m	kg./6m	Piece per Bundle
2 x 1	50.8 x 25.4	1.20	1.36	8.17	135
		1.60	1.78	10.69	135
		1.80	1.99	11.92	135
		2.00	2.19	13.12	135
		2.30	2.48	14.87	135
3 x 1½	75 x 38.1	1.60	2.71	16.25	60
		2.00	3.34	20.07	60
		2.30	3.81	22.87	60
		3.10	5.01	30.05	60
4 x 2	100 x 50	1.60	3.64	21.82	35
		2.30	5.14	30.86	35
		3.20	7.01	42.05	35
		4.50	9.55	57.31	35
6 x 2	150 x 50	2.30	6.95	41.69	24
		3.20	9.52	57.12	24
		4.00	11.73	70.41	24
		4.50	13.08	78.51	24
		2.30	4.42	26.52	35
		3.20	6.00	36.00	35
8 x 4	200 x 100	4.50	20.15	120.90	8
		6.00	26.40	158.40	8
		9.00	38.21	229.26	8

Chemical Composition

Machanical Properties

C	Si	Mn	P	S	Tensile Strength (min.)	Yield Point Stress (min.)	Elongation (%)
0.25	-	-	0.040	0.040	41 kgf/mm ² (400 N/mm ²)	25kgf/mm ² (245 N/mm ²)	23 (min)



COTCO METAL WORKS LIMITED

216/37 LPN Tower 11th Floor, Nanglinchi Rd., Chongnonsee, Yannawa, Bangkok 10120 Thailand
 Tel. (66) 2285-2700 (automatic 9 lines) Fax. (66) 2285-2711
 652 Pracha-Uthid Rd., Thungkru, Bangkok 10140
 Tel. (66) 2463-0221-22, 2464-0211-6 Fax. (66) 2463-5012, 2464-0219
www.cotcometalworks.co.th Email: sales.ccm@cotcogroup.com



COTCO-SV EASTERN STEEL PIPE CO., LTD.

216/40, LPN Tower, 11th Floor, Nanglinchi Rd., Chongnonsee, Yannawa, Bangkok, 10120 Thailand
 Tel : (66) 2285-2992 Fax : (66) 2285-2933
 189 Moo 6, Highway No.36 Makhamku, Sub-district Nikhomphatthana, Rayong, 21180 Thailand
 Tel: (66) 3860-6236-9 Fax: (66) 3860-6240
www.cotco-sv.co.th Email: sales.csv@cotcogroup.com