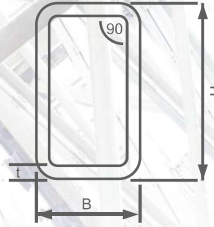


STRUCTURAL
PURPOSE



MITRSTEEL

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



CARBON STEEL RECTANGULAR PIPE

เหล็กงานโครงสร้าง

JIS G3466

MATERIAL OF GRADE	CHEMICAL COMPOSITION (%)					MECHANICAL PROPERTIES		
	C Max	Si Max	Mn Max	P Max	S Max	Yield Strength	Tensile Strength	Elongation
						N/mm ²	N/mm ²	%
STKR 400	0.25	-	-	0.04	0.04	245	400	23
STKR 490	0.18	0.55	1.50	0.04	0.04	325	490	23

Nominal size		Thickness	Weight (plain end)	Cross sectional area	Geometrical moment of inertia (cm ⁴)		Modulus of section (cm ³)		Radius of gyration (cm)	
A	B	mm	kg/m	cm ²	I _x	I _y	Z _x	Z _y	i _x	i _y
60	30	1.60	2.13	2.712	12.5	4.25	4.16	2.83	2.15	1.25
		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	45	1.60	2.88	3.672	28.4	12.9	7.56	5.75	2.78	1.88
		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
100	50	1.60	3.64	4.632	61.3	21.1	12.3	8.43	3.64	2.13
		2.30	5.14	6.552	84.8	29	17	11.6	3.6	2.1
		3.20	7.01	8.927	112	38	22.5	15.2	3.55	2.06
		4.50	9.55	12.17	147	48.9	29.3	19.5	3.47	2
125	75	2.30	6.95	8.852	192	87.5	30.6	23.3	4.65	3.14
		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
		6.00	17.00	21.63	428	192	68.5	51.1	4.45	2.98
150	75	3.20	10.80	13.73	402	137	53.6	36.6	5.41	3.16
150	80	4.50	15.20	19.37	563	211	75	52.9	5.39	3.3
		5.00	16.80	21.36	614	230	81.9	57.5	5.36	3.28
		6.00	19.80	25.23	710	264	94.7	66.1	5.31	3.24
150	100	3.20	12.00	15.33	488	262	65.1	52.5	5.64	4.14
		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	5.5	4.01
		9.00	31.10	39.67	1130	595	151	119	5.33	3.87
200	100	4.50	20.10	25.67	1330	455	131	90.9	7.2	4.21
		6.00	26.40	33.63	1700	577	170	115	7.12	4.14
		9.00	38.20	48.67	2350	782	235	156	6.94	4.01
200	150	4.50	23.70	30.17	1760	1130	176	151	7.64	6.13
		6.00	31.10	39.63	2270	1460	227	194	7.56	6.06
		9.00	45.30	57.67	3170	2020	317	270	7.41	5.93
250	150	6.00	35.80	45.63	3890	1770	311	236	9.23	6.23
		9.00	52.30	66.67	5480	2470	438	330	9.06	6.09
		12.00	67.90	86.53	6850	3070	548	409	8.9	5.95
300	200	6.00	45.20	57.63	7370	3960	491	396	11.3	8.29
		9.00	66.50	84.67	10500	5630	702	563	11.2	8.16
		12.00	86.80	110.5	13400	7110	890	711	11	8.02
350	150	6.00	45.20	57.63	8910	2390	509	319	12.4	6.44
		9.00	66.50	84.67	12700	3370	726	449	12.3	6.31
		12.00	86.80	110.5	16100	4210	921	562	12.1	6.17
400	200	6.00	54.70	69.63	14800	5090	739	509	14.6	8.55
		9.00	80.60	102.7	21300	7270	1070	727	14.4	8.42
		12.00	106.00	134.5	27300	9230	1360	923	14.2	8.23

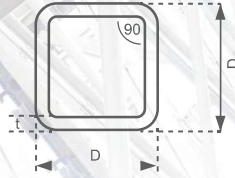
Dimension Tolerances

Outside Diameter: ≤ 100 mm: ± 1.5 mm
> 100 mm: ± 1.5%

Thickness: < 3.00mm: ± 0.30 mm
≥ 3.00mm: ± 10%



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114/40 หมู่ 10 ตำบลหนองละลอก อำเภอบ้านค่าย
จังหวัดระยอง 21120 Tel. 66(0)3301-2436-8



CARBON STEEL SQUARE PIPE

เหล็กงานโครงสร้าง

JIS G3466

MATERIAL OF GRADE	CHEMICAL COMPOSITION (%)					MECHANICAL PROPERTIES		
	C Max	Si Max	Mn Max	P Max	S Max	Yield Strength	Tensile Strength	Elongation
						N/mm ²	N/mm ²	%
STKR 400	0.25	-	-	0.04	0.04	245	400	23
STKR 490	0.18	0.55	1.50	0.04	0.04	325	490	23

Nominal Size		Thickness	Weight (plain end)	Cross Sectional Area	Geometrical moment of inertia (cm ⁴)	Modulus of section (cm ³)	Radius of gyration (cm)	Nominal Size		Thickness	Weight (plain end)	Cross Sectional Area	Geometrical moment of inertia (cm ⁴)	Modulus of section (cm ³)	Radius of gyration (cm)	
A	B	mm	kg/m	cm ²	Ix,Iy	Zx,Zy	ix,iy	A	B	mm	kg/m	cm ²	Ix,Iy	Zx,Zy	ix,iy	
40	40	1.60	1.88	2.392	5.79	2.9	1.56	175	175	4.50	23.70	30.17	1450	166	6.93	
		2.30	2.62	3.332	7.73	3.86	1.52			5.00	26.20	33.36	1590	182	6.91	
50	50	1.60	2.38	3.032	11.7	4.68	1.96	200	200	6.00	31.10	39.63	1860	213	6.86	
		2.30	3.34	4.252	15.9	6.34	1.93			4.50	27.20	34.67	2190	219	7.95	
		3.20	4.50	5.727	20.4	8.16	1.89			6.00	35.80	45.63	2830	283	7.88	
60	60	1.60	2.88	3.672	20.7	6.89	2.37	250	250	8.00	46.90	59.79	3620	362	7.78	
		2.30	4.06	5.172	28.3	9.44	2.34			9.00	52.30	66.67	3990	399	7.73	
		3.20	5.50	7.007	36.9	12.3	2.3			12.00	67.90	86.53	4980	498	7.59	
		4.50	7.51	9.567	49.2	16.3	2.25			8.00	59.50	75.79	7320	585	9.82	
80	80	2.30	5.50	7.012	69.9	17.5	3.16	300	300	12.00	86.80	110.5	10300	820	9.63	
		3.20	7.51	9.567	92.7	23.2	3.11			4.50	41.30	52.67	7630	508	12	
		4.50	10.30	13.07	122	30.4	3.05			6.00	54.70	69.63	9960	664	12	
		6.00	13.10	16.67	161	39.6	2.95			9.00	80.60	102.7	14300	956	11.8	
		9.00	24.10	30.67	408	81.6	3.65			12.00	106.00	134.5	18300	1220	11.7	
100	100	2.30	6.95	8.852	140	27.9	3.97	350	350	9.00	94.70	120.7	23200	1320	13.9	
		3.20	9.52	12.13	187	37.5	3.93			12.00	124.00	158.5	29800	1700	13.7	
		4.00	11.70	14.95	226	45.3	3.89									
		4.50	13.10	16.67	249	49.9	3.87									
		6.00	17.00	21.63	311	62.3	3.79									
		9.00	24.10	30.67	408	81.6	3.65									
125	125	3.20	12.00	15.33	376	60.1	4.95									
		4.50	16.60	21.17	506	80.9	4.89									
		5.00	18.30	23.36	553	88.4	4.86									
		6.00	21.70	27.63	641	103	4.82									
		9.00	31.10	39.67	865	138	4.67									
150	150	4.50	20.10	25.67	896	120	5.91									
		5.00	22.30	28.36	982	131	5.89									
		6.00	26.40	33.63	1150	153	5.84									
		9.00	38.20	48.67	1580	210	5.69									

Dimension Tolerances

Outside Diameter : ≤ 100 mm: ± 1.5 mm
> 100 mm: ± 1.5%

Thickness : < 3.00mm: ± 0.30 mm
≥ 3.00mm: ± 10%