

TIS 107 Carbon Steel Tubes							
Grade	% Chemical Composition (Min)					Mechanical Properties (Min)	
	C	Si	Mn	P	S	Yield Strength MPa	Tensile Strength MPa
TIS 107							
STK290	-	-	-	0.050*	0.050*	-	290
STK400	0.25*	-	-	0.040*	0.040*	235	400
STK490	0.18*	0.55*	1.65*	0.035*	0.035*	315	490
STK500	0.24*	0.35*	0.30 ถึง 1.30	0.040*	0.040*	255	500
STK540	0.23*	0.55*	1.50*	0.040*	0.040*	390	540

หมายเหตุ 1. ชั้นทดสอบหมายเลข 5 ใช้กับท่อเหล็กแบบกลมเส้นผ่านศูนย์กลางภายนอกมากกว่า 350 มม * สูงสุด
2. ชั้นทดสอบหมายเลข 12 ใช้กับท่อเหล็กแบบกลมเส้นผ่านศูนย์กลางภายนอกมากกว่า 40 มม ถึง 350 มม

Grade	Elongation %											
	Thickness > 8 mm			Thickness < 8 mm								
	SL	W		Test (piece)	< 1	>1 - 2	>2 - 3	>3 - 4	>4 - 5	>5 - 6	>6 - 7	>7 - <8
	OD											
	All	≤350	>350									
	หมายเลขทดสอบ และทิศทาง											
12	12	5										
ตามแนวยาว ท่อ	ตามแนวยาว ท่อ	ตามแนวตั้ง ฉาก										
STK290	30	30	25	No.12	20	21	22	24	26	27	28	30
				No.5	14	16	18	19	20	22	24	25
STK400	23	23	18	No.12	12	14	16	17	18	20	22	23
				No.5	8	9	10	12	14	15	16	18
STK490	23	23	18	No.12	12	14	16	17	18	20	22	23
				No.5	8	9	10	12	14	15	16	18
STK500	15	15	10	No.12	4	6	8	9	10	12	14	15
				No.5	-	1	2	4	6	7	8	10
STK540	20	20	16	No.12	10	11	12	14	16	17	18	20
				No.5	6	7	8	10	12	13	14	16

TIS 107 Carbon Steel Square and Rectangle							
Grade	% Chemical Composition (Min)					Mechanical Properties (Min)	
	C	Si	Mn	P	S	Yield Strength MPa	Tensile Strength MPa
TIS 107							
STKR290	-	-	-	0.050*	0.050*	-	290
STKR400	0.25*	-	-	0.040*	0.040*	245	400
STKR490	0.18*	0.55*	1.50*	0.040*	0.040*	325	490

Grade	Elongation (%)								
	Thickness > 8 mm	< 1	>1 - 2	>2 - 3	>3 - 4	>4 - 5	>5 - 6	>6 - 7	>7 - <8
STK290	30	20	21	22	24	26	27	28	30
STK400	23	12	14	16	17	18	20	22	23
STK490	23	12	14	16	17	18	20	22	23



Carbon Steel Tubes for General Structure

ท่อเหล็กกลม สำหรับงานโครงสร้าง

"Black Steel Pipe and Primer Coated Pipe"



Nominal Size		OD	Thickness	Weight
inch	mm.			
1/2"	15	21.7	2.00	0.972
3/4"	20		2.00	1.24
		2.30	1.41	
1"	25	340	2.30	1.80
1 1/4"	32		42.7	2.30
		2.50	2.48	
1 1/2"	40	48.6	2.30	2.63
			2.50	2.84
			2.80	3.16
			3.20	3.58
2"	50	60.5	2.30	3.30
			3.20	4.52
			4.00	5.57
2 1/2"	65	76.3	2.80	5.08
			3.20	5.77
			4.00	7.13
3"	80	89.1	2.80	5.96
			3.20	6.78
3 1/2"	90	101.6	3.20	7.76
			4.00	9.63
			5.00	11.90
			3.20	8.77
4"	100	114.3	3.50	9.56
			4.50	12.20
			3.60	12.10
			4.00	13.40
			4.50	15.00
5"	125	139.8	6.00	19.80
			4.50	17.80
			5.00	19.80
6"	150	165.2	6.00	23.60
			7.10	27.70
			7.90	27.70

Nominal Size		OD	Thickness	Weight
inch	mm.			
7"	175	190.7	4.50	20.70
			5.30	24.20
			6.00	27.30
			7.00	31.70
8"	200	216.3	8.20	36.90
			4.50	23.50
8"	200	216.3	5.80	30.10
			6.00	31.10
			7.00	36.10
			8.00	41.10
			8.20	42.10
10"	250	267.4	6.00	38.70
			6.60	42.40
			7.00	45.00
			8.00	51.20
			9.00	57.30
12"	300	318.5	9.30	59.20
			6.00	46.20
			6.90	53.00
			8.00	61.30
14"	350	355.6	9.00	68.70
			10.30	78.30
			6.40	55.10
			7.90	67.70
			9.00	76.90
16"	400	406.4	12.00	102.00
			12.70	107.00
			7.90	77.60
			9.00	88.20
16"	400	406.4	9.50	93.00
			12.00	117.00



TIS 107 TABLE n.1 (JIS G3444)

Carbon Steel Tubes for General Structure

ท่อเหล็กกลม สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”



Nominal Size		OD	Thickness	Weight
inch	mm.	mm.	mm.	kg/m
16"	400	406.4	12.70	123.00
			16.00	154.00
			19.00	182.00
18"	450	457.2	9.00	99.50
			9.50	105.00
			12.00	132.00
			12.70	139.00
			16.00	174.00
			19.00	205.00
20"	500	500.00	9.00	109.00
			12.00	144.00
			14.00	168.00
20"	500A	508.0	7.90	97.40
			9.00	111.00
			9.50	117.00
			12.00	147.00
			12.70	155.00
			14.00	171.00
			16.00	194.00
			19.00	229.00
			22.00	264.00
			9.00	122.00
22"	550	558.8	12.00	162.00
			16.00	214.00
			19.00	253.00
			22.00	291.00
24"	600	600.0	9.00	131.00
			12.00	174.00
			14.00	202.00
			16.00	230.00
24"	600A	609.6	9.00	133.00
			9.50	141.00

Nominal Size		OD	Thickness	Weight
inch	mm.	mm.	mm.	kg/m
24"	600A	609.6	12.00	177.00
			12.70	187.00
24"	600A	609.6	14.00	206.00
			16.00	234.00
			19.00	277.00
			22.00	319.00
			9.00	153.00
28"	700	700.0	12.00	204.00
			14.00	237.00
			16.00	270.00
28"	700A	711.2	9.00	156.00
			12.00	207.00
			14.00	241.00
			16.00	274.00
			19.00	324.00
			22.00	374.00
			9.00	178.00
32"	800	812.8	12.00	237.00
			14.00	276.00
			16.00	314.00
			19.00	372.00
			22.00	429.00
			12.00	267.00
36"	900	914.4	14.00	311.00
			16.00	354.00
			19.00	420.00
			22.00	484.00
			12.00	297.00
40"	1000	1016.0	14.00	346.00
			16.00	395.00
			19.00	467.00
			22.00	539.00
			12.00	297.00
			14.00	346.00



TIS 107 TABLE ข.1 (JIS G3466)

Carbon Steel Square Tubes for General Structure

ท่อเหลี่ยมรูปสี่เหลี่ยมจัตุรัส สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”



Nominal Size A x B	Thickness	Weight
mm.	mm.	kg/m
40 x 40	1.60	1.88
	2.30	2.62
50 x 50	1.60	2.38
	2.30	3.34
	3.20	4.50
60 x 60	1.60	2.88
	2.30	4.06
75 x 75	1.60	3.64
	2.30	5.14
	3.20	7.01
	4.50	9.55
80 x 80	2.30	5.50
	3.20	7.51
	4.50	10.30
90 x 90	2.30	6.23
	3.20	8.51
100 x 100	2.30	6.95

Nominal Size A x B	Thickness	Weight
mm.	mm.	kg/m
100 x 100	3.20	9.52
	4.00	11.70
	4.50	13.10
	6.00	17.00
125 x 125	9.00	24.10
	12.00	30.20
	3.20	12.00
150 x 150	4.50	16.60
	5.00	18.30
	6.00	21.70
	9.00	31.10
175 x 175	12.00	39.70
	4.50	20.10
	5.00	22.30
300 x 300	6.00	26.40
	9.00	38.20
	4.50	23.70
500 x 500	5.00	26.20

Nominal Size A x B	Thickness	Weight
mm.	mm.	kg/m
175 x 175	6.00	31.10
	4.50	27.20
200 x 200	6.00	35.8
	8.00	46.9
	9.00	52.3
	12.00	67.9
250 x 250	5.00	38.0
	6.00	45.2
	8.00	59.5
	9.00	66.5
300 x 300	12.00	86.8
	4.50	41.3
	6.00	54.7
350 x 350	9.00	80.6
	12.00	106
400 x 400	9.00	94.7
	12.00	124



TIS 107 (JIS G3444 Modified)

Nominal Size	OD	Thickness	Weight
inch	mm	mm	kg/m
2 1/2"	65	76.3	2.3 4.20
4"	100	114.3	6.0 16.0
		9.0	23.3

Nominal Size	OD	Thickness	Weight
inch	mm	mm	kg/m
5"	125	139.8	9.0 29.0
6"	150	165.2	9.0 34.6
8"	200	216.3	9.0 46.0

Nominal Size	OD	Thickness	Weight
inch	mm	mm	kg/m
10"	250	267.4	12.0 75.6
12"	300	318.5	12.0 90.7



TIS 107 (JIS G3444 Modified)

Nominal Size A x B	Thickness	Weight
inch	mm	kg/m
50 x 50	4.5	6.02
	6.0	7.56

Nominal Size A x B	Thickness	Weight
inch	mm	kg/m
75 x 75	6.0	12.3
	3.2	14.5

Nominal Size A x B	Thickness	Weight
inch	mm	kg/m
250 x 250	4.5	34.3





TIS 107 TABLE n.1 (JIS G3466)

Carbon Steel Rectangular Tubes for General Structure

ท่อเหล็กรูปสี่เหลี่ยมผืนผ้า สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”



Normal Size A x B	Thickness	Weight	Normal Size A x B	Thickness	Weight
mm.	mm.	kg/m	mm.	mm.	kg/m
50 x 20	1.60	1.63	125 x 75	4.00	11.70
	2.30	2.25		4.50	13.10
50 x 30	1.60	1.88	150 x 75	6.00	17.00
	2.30	2.62		3.20	10.80
60 x 30	1.60	2.13	150 x 80	4.50	15.20
	2.30	2.98		5.00	16.80
	3.20	3.99		6.00	19.80
75 x 20	1.60	2.25	150 x 100	3.20	12.00
	2.30	3.16		4.50	16.60
75 x 45	1.60	2.88		6.00	21.70
	2.30	4.06	9.00	31.10	
	3.20	5.50	4.50	20.10	
80 x 40	1.60	2.88	200 x 100	6.00	26.40
	2.30	4.06		9.00	38.20
	3.20	5.50		4.50	23.70
90 x 45	2.30	4.60	200 x 150	6.00	31.10
	3.20	6.25		9.00	45.30
	6.00	11.70		6.00	35.80
100 x 20	1.60	2.88	250 x 150	9.00	52.30
	2.30	4.06		12.00	67.90
100 x 40	1.60	3.38	300 x 200	6.00	45.20
	2.30	4.78		9.00	66.50
	4.20	8.32		12.00	86.80
100 x 50	1.60	3.64	350 x 150	6.00	45.20
	2.30	5.14		9.00	66.50
	3.20	7.01		12.00	86.80
	4.50	9.55		6.00	54.70
125 x 40	1.60	4.01	400 x 200	9.00	80.60
	2.30	5.69		12.00	106.00
125 x 75	2.30	6.95			
	3.20	9.52			

TIS 107 (JIS G3444 Modified)

Normal Size A x B	Thickness	Weight
inch	mm	kg/m
75 x 50	3.2	5.75
100 x 50	6.0	12.3
150 x 75	4.5	14.9
	6.0	19.3
125 x 50	2.3	6.05
	3.2	8.26
	4.0	10.2
150 x 50	2.3	6.95
	3.2	9.52
	4.0	11.7
	4.5	13.1
	5.0	14.4
200 x 50	6.0	17.0
	3.2	12.0
200 x 100	6.0	21.7
	3.2	14.5
300 x 150	6.0	40.5
	9.0	59.4
	12.0	77.4
300 x 250	6.0	54.7
	9.0	80.6
	12.0	106



TIS 107 TABLE n.2 (ASTM A500)

Carbon Steel Pipe for Structural Purposes

ท่อเหล็กกลม สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”



Normal Size A x B		OD	Thickness	Weight
Inch	mm.	mm.	mm.	kg/m
1/2"	15	21.3	2.77	1.27
			3.73	1.62
3/4"	20	26.7	2.87	1.69
			3.91	2.20
1"	25	33.4	2.64	2.00
			3.38	2.50
			4.55	3.24
1 1/4"	32	42.2	2.79	2.71
			3.56	3.39
			4.85	4.47
1 1/2"	40	48.3	2.90	3.25
			3.68	4.05
			5.08	5.41
2"	50	60.3	3.07	4.33
			3.91	5.44
			5.54	7.48
2 1/2"	65	73.0	3.96	6.74
			4.78	8.04
			5.16	8.63
			7.01	11.41
3"	80	88.9	3.96	8.29
			4.78	9.92
			5.49	11.29
			7.62	15.27
3 1/2"	90	101.6	3.96	9.53
			4.78	11.41
			5.74	13.57
			8.08	18.63
4"	100	114.3	3.96	10.78

Normal Size A x B		OD	Thickness	Weight
Inch	mm.	mm.	mm.	kg/m
4"	100	114.3	4.78	12.91
			5.56	14.91
			6.02	16.07
5"	125	141.3	8.56	22.32
			6.55	21.77
			9.53	30.97
6"	150	168.3	19.05	57.43
			7.11	28.26
			10.97	42.56
8"	200	219.1	21.95	79.22
			8.18	42.55
			12.70	64.64
10"	250	273.0	22.23	107.92
			9.27	60.31
			12.70	81.55
12"	300	323.8	24.40	155.15
			9.53	73.88
			12.70	97.46
14"	350	355.6	25.40	186.97
			9.53	81.33
			12.70	107.39
16"	400	406.4	9.53	93.27
			12.70	123.30
18"	450	457.2	9.53	105.16
			12.70	139.15
20"	500	508.0	9.53	117.15
			12.70	155.12
24"	600	609.6	9.53	141.12
			12.70	187.06



TIS 107 TABLE ๓.2 (ASTM A500)

Square Hollow Section for Structural Purposes

ท่อเหล็กรูปสี่เหลี่ยมจัตุรัส สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”



Nominal Size A x B		Thickness mm.	Weight kg/m
Inch	mm.		
1" x 1"	25.4 x 25.4	2.41	1.62
		3.38	2.10
2" x 2"	50.8 x 50.8	2.79	4.00
		3.18	4.52
		3.91	5.44
		4.78	6.41
		3.58	6.43
2 1/2" x 2 1/2"	63.5 x 63.5	4.78	8.32
		6.35	10.56
		3.96	8.60
3" x 3"	76.2 x 76.2	4.78	10.21
		6.35	13.09
		3.96	10.24
3 1/2" x 3 1/2"	89.9 x 89.9	4.78	12.11
		6.35	15.62
		7.92	18.88
		4.78	13.85
4" x 4"	101.6 x 101.6	6.35	17.89
		7.92	21.61
		9.52	25.06
		12.70	31.07
		4.78	17.65
5" x 5"	127.0 x 127.0	6.35	22.94
		7.92	27.93
		9.52	32.65
		12.70	41.19
6" x 6"	152.4 x 152.4	4.78	21.44
		6.35	28.00
		7.92	34.25
		9.52	40.28
		12.70	51.31
7" x 7"	177.8 x 177.8	4.78	25.07
		6.35	32.80
		7.92	39.16
		9.52	47.21

Nominal Size A x B		Thickness mm.	Weight kg/m
Inch	mm.		
8" x 8"	203.2 x 203.2	12.70	60.34
		6.35	37.85
		7.92	46.49
		9.52	54.80
		12.70	70.46
		16.00	89.57
		19.05	97.81
10" x 10"	254.0 x 254.0	6.35	47.96
		7.92	59.13
		9.52	69.98
		12.70	90.69
		16.00	110.08
		19.05	128.16
12" x 12"	304.8 x 304.8	25.40	160.39
		12.70	113.66
		16.00	140.62
		19.05	164.58
14" x 14"	355.6 x 355.6	12.70	133.92
		16.00	166.14
		19.05	194.97
		20.57	209.03
		22.00	216.35
		25.00	241.31
		12.70	154.18
16" x 16"	406.4 x 406.4	16.00	191.66
		20.57	241.81
		22.00	251.44
		25.00	281.19
		28.00	309.84
18" x 18"	457.2 x 457.2	32.00	397.4
		36.00	438.36
		40.00	477.38
20" x 20"	508.0 x 508.0	12.70	194.70
		16.00	242.70
		19.05	286.13



TIS 107 TABLE ๓.2 (ASTM A500)

Square Hollow Section for Structural Purposes

ท่อเหล็กรูปสี่เหลี่ยมจัตุรัส สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”



Nominal Size A x B		Thickness mm.	Weight kg/m
Inch	mm.		
20" x 20"	508.0 x 508.0	20.57	307.49
		22.00	319.42
		25.00	358.10
		28.00	395.60
		32.00	443.78
		36.00	489.88
		40.00	533.90
		45.00	585.99
		50.00	634.83
		22" x 22"	558.8 x 558.8
19.00	309.88		
22.00	354.51		
25.00	397.98		
28.00	440.26		
32.00	494.83		
36.00	547.31		
40.00	597.70		
24" x 24"	609.6 x 609.6	45.00	657.77
		50.00	714.58
		55.00	768.14
		16.00	289.60
		19.00	340.19
		22.00	389.61
		25.00	437.85
26" x 26"	660.4 x 660.4	28.00	484.93
		32.00	545.87
		36.00	604.73
		40.00	661.51
		45.00	729.55
		50.00	794.34
		55.00	855.87
		60.00	914.15
		16.00	315.12
19.00	370.50		

Nominal Size A x B		Thickness mm.	Weight kg/m
Inch	mm.		
26" x 26"	660.4 x 660.4	22.00	424.70
		25.00	477.73
		28.00	529.59
		32.00	596.92
		36.00	662.16
		40.00	725.31
		45.00	801.33
28" x 28"	711.2 x 711.2	50.00	874.10
		55.00	943.61
		60.00	1009.86
		16.00	340.64
		19.00	400.80
		22.00	459.79
		25.00	517.61
30" x 30"	762.0 x 762.0	28.00	574.25
		32.00	647.96
		36.00	719.58
		40.00	789.12
		45.00	873.11
		50.00	953.85
		55.00	1031.34
30" x 30"	762.0 x 762.0	60.00	1105.57
		16.00	366.17
		19.00	431.11
		22.00	494.88
		25.00	557.49
		28.00	618.92
		32.00	699.00
		36.00	777.00
		40.00	852.92
45.00	944.89		
50.00	1033.61		
55.00	1119.07		
60.00	1201.28		



TIS 107 TABLE n.2 (ASTM A500)



Rectangular Hollow Section for Structural Purposes

ท่อเหล็กรูปสี่เหลี่ยมผืนผ้า สำหรับงานโครงสร้าง

"Black Steel Pipe and Primer Coated Pipe"



Nominal Size A x B		Thickness mm.	Weight kg/m	Nominal Size A x B		Thickness mm.	Weight kg/m		
Inch	mm.			Inch	mm.				
3" x 2"	76.2 x 50.8	3.58	6.43	8" x 4"	203.2 x 101.6	9.52	40.28		
		4.78	8.32			12.70	51.31		
		6.35	10.56			4.78	25.07		
4" x 2"	101.6 x 50.8	3.96	8.60	8" x 6"	203.2 x 152.4	6.35	32.80		
		4.78	10.21			7.92	39.16		
		6.35	13.09			9.52	47.21		
4" x 3"	101.6 x 76.2	3.96	10.24			10" x 4"	254.0 x 101.6	12.70	60.34
		4.78	12.11					12.70	63.02
		6.35	15.62					16.00	76.81
5" x 3"	127.0 x 76.2	7.92	18.88	10" x 6"	254.0 x 152.4	6.35	37.85		
		4.78	13.85			7.92	46.49		
		6.35	17.89			9.52	54.80		
		7.92	21.61			12.70	70.46		
6" x 3"	152.4 x 76.2	9.52	25.06			12" x 8"	304.8 x 203.2	16.00	89.57
		4.78	15.74					12.70	93.41
		6.35	20.42	16.00	115.10				
		7.92	24.78	16" x 8"	406.4 x 203.2			12.70	113.66
9.52	28.85	16.00	140.62						
6" x 4"	152.4 x 101.6	4.78	17.65	18" x 10"	457.2 x 254.0			12.70	133.92
		6.35	22.94			16.00	166.14		
		7.92	27.93			12.70	154.18		
		9.52	32.65	20" x 12"	508.0 x 304.8	16.00	191.66		
		12.70	41.19			12.00	160.19		
7" x 5"	177.8 x 127.0	4.78	21.44	22" x 14"	550.0 x 350.0	16.00	209.42		
		6.35	28.00			19.00	244.97		
		7.92	34.25			22.00	279.36		
		9.52	40.28			25.00	312.57		
		12.70	51.31			28.00	344.61		
8" x 4"	203.2 x 101.6	4.78	21.44	24" x 16"	600.0 x 400.0	12.00	179.03		
		6.35	28.00			16.00	234.54		
		7.92	34.25			19.00	274.80		



TIS 107 TABLE n.3 (BS EN10219)



Cold Formed Welded Structural Hollow Section

ท่อเหล็กกลม สำหรับงานโครงสร้าง

"Black Steel Pipe and Primer Coated Pipe"



Nominal Size A x B	OD mm.	Thickness mm.	Weight kg/m
Inch			
1/2"	15	2.00	0.95
		2.50	1.16
		3.00	1.35
3/4"	20	2.00	1.23
		2.50	1.50
		3.00	1.77
		2.00	1.56
		2.50	1.92
1"	25	3.00	2.27
		2.00	1.99
		2.50	2.46
1 1/4"	32	3.00	2.91
		4.00	3.79
		2.00	2.28
1 1/2"	40	2.50	2.82
		3.00	3.35
		4.00	4.37
		5.00	5.34
		2.00	2.88
2"	50	2.50	3.56
		3.00	4.24
		4.00	5.55
		5.00	6.82
		2.00	3.65
2 1/2"	65	2.50	4.54
		3.00	5.41
		4.00	7.11
		5.00	8.77
		6.00	10.40
		6.30	10.80
		2.00	4.29
3"	80	2.50	5.33
		3.00	6.36
		4.00	8.38
		5.00	10.30
		6.00	12.30
		6.30	12.80
		2.00	4.91
3 1/2"	90	2.50	6.11

Nominal Size A x B	OD mm.	Thickness mm.	Weight kg/m
Inch			
3 1/2"	90	3.00	7.29
		4.00	9.63
		5.00	11.90
		6.00	14.10
		6.30	14.80
4"	100	2.50	6.89
		3.00	8.23
		4.00	10.90
		5.00	13.50
		6.00	16.00
5"	125	6.30	16.80
		8.00	21.00
		3.00	10.10
		4.00	13.40
		5.00	16.60
6"	150	6.00	19.80
		6.30	20.70
		8.00	25.00
		10.00	32.00
		3.00	12.20
6 1/2"	160	4.00	16.20
		5.00	20.10
		6.00	24.00
		6.30	25.20
		8.00	31.60
7"	175	10.00	39.00
		4.00	17.10
		5.00	21.30
		6.00	25.40
		6.30	26.60

Nominal Size A x B	OD mm.	Thickness mm.	Weight kg/m
Inch			
7"	175	6.30	29.10
		8.00	36.60
		10.00	45.30
		12.00	53.80
		12.50	55.90
8"	200	4.00	21.20
		5.00	26.40
		6.00	31.50
		6.30	33.10
		8.00	41.60
9"	225	10.00	51.60
		12.00	61.30
		12.50	63.70
		5.00	29.50
		6.00	35.30
10"	250	6.30	37.00
		8.00	46.70
		10.00	57.80
		12.00	68.00
		12.50	71.50
12"	300	5.00	33.00
		6.00	39.50
		6.30	41.40
		8.00	52.30
		10.00	64.90
12"	300	12.00	77.20
		12.50	80.30
		5.00	39.30
		6.00	47.00
		6.30	49.30
12"	300	8.00	62.30
		10.00	77.40
		12.00	92.30
		12.50	96.00



TIS 107 TABLE n.3 (BS EN10219)



Cold Formed Welded Structural Hollow Section

ท่อเหล็กกลม สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”

Nominal Size A x B		OD	Thickness	Weight	Nominal Size A x B		OD	Thickness	Weight	Nominal Size A x B		OD	Thickness	Weight							
Inch	mm.	mm.	mm.	kg/m	Inch	mm.	mm.	mm.	kg/m	Inch	mm.	mm.	mm.	kg/m							
14"	350	355.6	5.00	43.20	24"	600	610.0	30.00	354.00	36"	900	914.0	25.00	486.00							
			6.00	51.70				6.00	89.40				30.00	579.00							
			6.30	54.30				6.30	93.80				8.00	179.00							
			8.00	68.60				8.00	119.00				10.00	223.00							
			10.00	85.20				10.00	148.00				12.00	267.00							
			12.00	102.00				12.00	177.00				12.50	278.00							
			12.50	106.00				12.50	184.00				16.00	354.00							
			16.00	134.00				16.00	234.00				20.00	441.00							
			20.00	166.00				20.00	291.00				25.00	548.00							
									25.00				361.00	30.00	654.00						
16"	400	406.4	6.00	59.20	28"	700	711.0	6.00	104.00	40"	1000	1016.0	8.00	199.00							
			6.30	62.20				6.30	109.00				10.00	248.00							
			8.00	78.60				8.00	139.00				12.00	297.00							
			10.00	97.80				10.00	173.00				12.50	309.00							
			12.00	117.00				12.00	207.00				16.00	395.00							
			12.50	121.00				12.50	215.00				20.00	491.00							
			16.00	154.00				16.00	274.00				25.00	611.00							
			20.00	191.00				20.00	341.00				30.00	729.00							
									25.00				423.00	10.00	261.00						
									30.00				504.00	12.00	312.00						
18"	450	457.0	6.00	66.70	30"	750	762.00	6.00	112.00	42"	1050	1067.0	12.50	325.00							
			6.30	70.00				6.30	117.00				16.00	415.00							
			8.00	88.60				8.00	149.00				20.00	516.00							
			10.00	110.00				10.00	185.00				25.00	642.00							
			12.00	132.00				12.00	222.00				30.00	767.00							
			12.50	137.00				12.50	231.00				10.00	286.00							
			16.00	174.00				16.00	294.00				12.00	342.00							
			20.00	216.00				20.00	366.00				12.50	356.00							
			25.00	266.00				25.00	454.00				16.00	455.00							
			30.00	316.00				30.00	542.00				20.00	566.00							
20"	500	508.0	6.00	74.30	32"	800	813.0	8.00	159.00	48"	1200	1219.0	10.00	298.00							
			6.30	77.90				10.00	198.00				12.00	357.00							
			8.00	98.60				12.00	237.00				12.50	372.00							
			10.00	123.00				12.50	247.00				16.00	475.00							
			12.00	147.00				16.00	314.00				20.00	591.00							
			12.50	153.00				20.00	319.00				25.00	736.00							
			16.00	194.00																	
			20.00	241.00																	
			25.00	298.00																	



TIS 107 TABLE ๓.3 (BS EN10219)



Cold Formed Welded Structural Hollow Section

ท่อเหล็กรูปสี่เหลี่ยมจัตุรัส สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”

Nominal Size	Thickness	Weight	Nominal Size	Thickness	Weight
mm.	mm.	kg/m	mm.	mm.	kg/m
20 x 20	2.00	1.05	80 x 80	6.30	13.50
25 x 25	2.00	1.36		8.00	16.40
	2.50	1.64	3.00	8.01	
	3.00	1.89	4.00	10.50	
	30 x 30	2.00	1.68	5.00	12.80
2.50		2.03	6.00	15.10	
3.00		2.36	6.30	15.50	
8.00		18.90	100 x 100	3.00	8.96
40 x 40	2.00	2.31		4.00	11.70
	2.50	2.82		5.00	14.40
	3.00	3.30		6.00	17.00
50 x 50	2.00	2.93	6.30	17.50	
	2.50	3.60	8.00	21.40	
	3.00	4.25	10.00	25.60	
	4.00	5.45	12.00	28.30	
	5.00	6.56	12.50	29.10	
60 x 60	2.00	3.56	3.00	10.80	
	2.50	4.39	4.00	14.20	
	3.00	5.19	5.00	17.50	
	4.00	6.71	6.00	20.70	
	5.00	8.13	6.30	21.40	
	6.00	9.45	8.00	26.40	
	6.30	9.55	10.00	31.80	
70 x 70	2.50	5.17	12.00	35.80	
	3.00	6.13	12.50	36.90	
	4.00	7.97	4.00	16.80	
	5.00	9.70	5.00	20.70	
	6.00	11.30	6.00	24.50	
	6.30	11.50	6.30	25.40	
80 x 80	3.00	7.07	8.00	31.40	
	4.00	9.22	10.00	38.10	
	5.00	11.30	12.00	43.40	
	6.00	13.20	12.50	44.80	
	150 x 150	4.00	18.00	4.00	18.00
5.00		22.30	5.00	22.30	



**TIS 107 TABLE ๓.3
(BS EN10219)**

Cold Formed Welded Structural Hollow Section

ท่อเหล็กรูปสี่เหลี่ยมจัตุรัส สำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”

Normal Size mm.	Thickness mm.	Weight kg/m
150 x 150	6.00	26.40
	6.30	27.40
	8.00	33.90
	10.00	41.30
	12.00	47.10
	12.50	48.70
	16.00	58.70
160 x 160	4.00	19.30
	5.00	23.80
	6.00	28.30
	6.30	29.30
	8.00	36.50
	10.00	44.40
	12.00	50.90
	12.50	52.60
16.00	63.70	
180 x 180	4.00	21.80
	5.00	27.00
	6.00	32.10
	6.30	33.30
	8.00	41.50
	10.00	50.70
	12.00	58.50
	12.50	60.50
16.00	73.80	
200 x 200	4.00	24.30
	5.00	30.10
	6.00	35.80
	6.30	37.20
	8.00	46.50
	10.00	57.00
	12.00	66.00
	12.50	68.30
16.00	83.80	
220 x 220	5.00	33.20
	6.00	39.60
	6.30	41.20

Normal Size mm.	Thickness mm.	Weight kg/m
220 x 220	8.00	51.50
	10.00	63.20
	12.00	73.50
	12.50	76.20
	16.00	93.90
	6.00	38.00
250 x 250	6.00	45.20
	6.30	47.10
	8.00	59.10
	10.00	72.70
	12.00	84.80
	12.50	88.00
260 x 260	16.00	109.00
	6.00	47.10
	6.30	49.10
	8.00	61.60
	10.00	75.80
	12.00	88.60
300 x 300	12.50	91.90
	16.00	114.00
	6.00	54.70
	6.30	57.00
	8.00	71.60
	10.00	88.40
350 x 350	12.00	104.00
	12.50	108.00
	16.00	134.00
	8.00	84.20
	10.00	104.00
	12.00	123.00
400 x 400	12.50	127.00
	16.00	159.00
	10.00	120.00
	12.00	141.00
	12.50	147.00
	16.00	184.00



**TIS 107 TABLE ๓.3
(BS EN10219)**

Cold Formed Welded Structural Hollow Section

ท่อเหล็กรูปสี่เหลี่ยมผืนผ้าสำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”

Normal Size A x B mm.	Thickness mm.	Weight kg/m
40 x 20	2.00	1.68
	2.50	2.03
	3.00	2.36
50 x 30	2.00	2.31
	2.50	2.82
	3.00	3.30
60 x 40	4.00	4.20
	2.00	2.93
	2.50	3.60
70 x 50	3.00	4.25
	4.00	5.45
	5.00	6.56
80 x 40	2.00	3.56
	2.50	4.39
	3.00	5.19
80 x 60	4.00	6.71
	5.00	8.13
	2.00	3.56
90 x 50	2.50	4.39
	3.00	5.19
	4.00	6.71
100 x 40	5.00	8.13
	2.00	4.19
	2.50	5.17
100 x 50	3.00	6.13
	4.00	7.97
	5.00	9.70

Normal Size A x B mm.	Thickness mm.	Weight kg/m
100 x 50	2.00	2.31
	2.50	2.82
	3.00	3.30
100 x 60	4.00	4.20
	2.00	2.93
	2.50	3.60
100 x 80	3.00	4.25
	4.00	5.45
	5.00	6.56
120 x 60	2.00	3.56
	2.50	4.39
	3.00	5.19
120 x 80	4.00	6.71
	5.00	8.13
	2.00	4.19
140 x 80	2.50	5.17
	3.00	6.13
	4.00	7.97
150 x 100	5.00	9.70
	2.00	4.19
	2.50	5.17





TIS 107 TABLE ๓.3 (BS EN10219)



Cold Formed Welded Structural Hollow Section

ท่อเหล็กรูปสี่เหลี่ยมผืนผ้าสำหรับงานโครงสร้าง

“Black Steel Pipe and Primer Coated Pipe”



Normal Size A x B mm.	Thickness mm.	Weight kg/m
150 x 100	12.00	37.70
	12.50	38.90
160 x 80	4.00	14.20
	5.00	17.50
	6.00	20.70
	6.30	21.40
	8.00	26.40
	10.00	31.80
	12.00	35.80
180 x 100	4.00	16.80
	5.00	20.70
	6.00	24.50
	6.30	25.40
	8.00	31.40
	10.00	38.10
	12.00	43.40
200 x 120	4.00	19.30
	5.00	23.80
	6.00	28.30
	6.30	29.30
	8.00	36.50
	10.00	44.40
	12.00	50.90
250 x 150	5.00	30.10
	6.00	35.80
	6.30	37.20
	8.00	46.50
	10.00	57.00
	12.00	66.00
	12.50	68.30
260 x 180	16.00	83.80
	5.00	33.20
	6.30	41.20
	8.00	51.50
260 x 180	10.00	63.20
	12.00	73.50

Normal Size A x B mm.	Thickness mm.	Weight kg/m
260 x 180	12.50	76.20
	16.00	93.90
300 x 100	6.00	35.80
	6.30	37.20
	8.00	46.50
	10.00	57.00
	12.00	66.00
	12.50	68.30
	16.00	83.80
300 x 150	6.00	40.50
	6.30	42.20
	8.00	52.80
	10.00	64.80
	12.00	75.40
	12.50	78.10
300 x 200	16.00	96.40
	6.00	45.20
	6.30	47.10
	8.00	59.10
	10.00	72.70
	12.00	84.80
350 x 250	12.50	88.00
	16.00	109.00
	6.00	54.70
	6.30	57.00
	8.00	71.60
	10.00	88.40
400 x 200	12.00	104.00
	12.50	108.00
	16.00	134.00
	8.00	71.60
400 x 300	12.50	108.00
	16.00	134.00
	8.00	84.20
400 x 300	10.00	104.00
	12.00	123.00
	12.50	127.00
	16.00	159.00