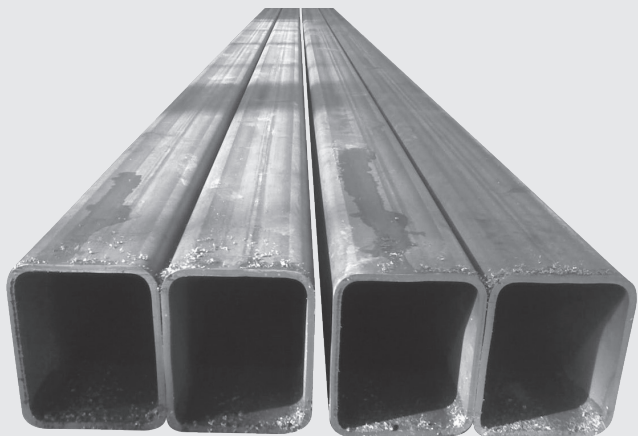


**SQUARE
HOLLOW SECTIONS**



SQUARE HOLLOW SECTIONS

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Size	Thickness	Mass
H x B mm	T mm	M kg/m
25 x 25	1.2	0.87
	1.5	1.06
	1.8	1.25
	2.0	1.36
	2.3	1.53
	2.5	1.64
	3.0	1.89
30 x 30	1.2	1.06
	1.5	1.30
	1.8	1.53
	2.0	1.68
	2.5	2.03
	3.0	2.36
	4.0	2.94
40 x 40	2.5	2.89
	3.0	3.41
	3.2	3.61
	4.0	4.39
	4.9	5.20
	5.0	5.28
	50 x 50	2.5
3.0		4.35
3.2		4.62
4.0		5.64
4.9		6.74
5.0		6.85
6.0		7.99
6.3	8.31	
60 x 60	3.0	5.29
	3.2	5.62
	4.0	6.90
	4.9	8.28

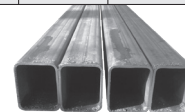
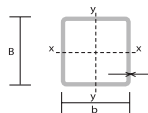
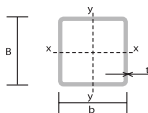
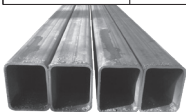
Size	Thickness	Mass
H x B mm	T mm	M kg/m
	5.0	8.42
	6.0	9.87
	6.3	10.3
	8.0	12.5
65 x 65	2.0	3.94
	2.5	29.57
	3.0	35.49
70 x 70	3.0	6.24
	3.2	6.63
	3.6	7.40
	4.0	8.15
	4.9	9.81
	5.0	9.99
	6.0	11.8
	6.3	12.3
75 x 75	2.5	5.56
	3.0	6.60
	4.0	8.59
	5.0	10.50
	6.0	12.30
	80 x 80	3.2
3.6		8.53
4.0		9.41
4.9		11.4
5.0		11.6
5.6		12.8
6.0	13.6	

SQUARE HOLLOW SECTIONS

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Size	Thickness	Mass
H x B mm	T mm	M kg/m
	6.3	14.2
	7.1	15.8
90 x 90	3.6	9.66
	4.0	10.7
	4.9	12.9
	5.0	13.1
	5.6	14.6
	6.0	15.5
	6.3	16.2
100 x 100	7.1	18.1
	8.0	20.1
	3.6	10.8
	4.0	11.9
	4.9	14.4
120 x 120	5.0	14.7
	5.6	16.3
	6.0	17.4
	6.3	18.2
	7.1	20.3
	8.0	22.6
	10.0	27.4
	4.0	14.4
	4.9	17.5
	5.0	17.8
5.6	19.9	
6.0	21.2	
6.3	22.2	
7.1	24.7	
8.0	27.6	
8.8	30.1	
10.0	33.7	

Size	Thickness	Mass
H x B mm	T mm	M kg/m
	12.0	39.5
	12.5	40.9
125 x 125	2.5	9.49
	3.0	11.31
	4.0	14.90
	5.0	18.30
	6.0	21.70
	8.0	27.70
	9.0	30.60
140 x 140	4.9	20.6
	5.0	21.0
	5.6	23.4
	6.0	24.9
	6.3	26.1
	7.1	29.2
	8.0	32.6
150 x 150	8.8	35.6
	10.0	40.0
	12.0	47.0
	12.5	48.7
	4.9	22.1
	5.0	22.6
	5.6	25.1
6.0	26.8	
160 x 160	6.3	28.1
	7.1	31.4
	8.0	35.1
	8.8	38.4
	10.0	43.1
	12.0	50.8

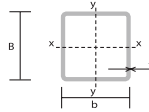
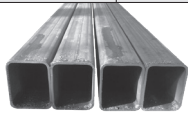
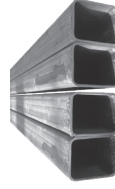


SQUARE HOLLOW SECTIONS

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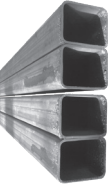
Size H x B mm	Thickness T mm	Mass M kg/m
160 x 160	12.5	52.7
	16.0††	65.2
	5.0	24.1
	5.6	26.9
	6.0	28.7
	6.3	30.1
	7.1	33.7
	8.0	37.6
	8.8	41.1
	10.0	46.3
180 x 180	5.0	27.3
	5.6	30.4
	6.0	32.5
	6.3	34.0
	7.1	38.1
	8.0	42.7
	8.8	46.7
	10.0	52.5
	12.0	62.1
	12.5	64.4
200 x 200	14.2	72.2
	16.0	80.2
	5.0	30.4
	5.6	33.9
6.0	36.2	

Size H x B mm	Thickness T mm	Mass M kg/m	
200 x 200	6.3	38.0	
	7.1	42.6	
	8.0	47.7	
	8.8	52.2	
	10.0	58.8	
	12.0	69.6	
	12.5	72.3	
	14.2	81.1	
	16.0	90.3	
	250 x 250	5.0	38.3
5.6		42.7	
6.0		45.7	
6.3		47.9	
12.5		91.9	
12.0		88.5	
14.2		103	
16.0		115	
300 x 300		6.0	54.7
		8.0	72.8
	10.0	88.4	
	12.0	109.2	
	16.0	144.0	
	350 x 350	8.0	84.93
10.0		106.0	
12.0		127.4	
400 x 400	8.0	97.0	
	10.0	121.3	
	12.0	145.6	
16.0	194.7		



**SPECIFICATION FOR STANDARD SIZES
EN 10219 - 1 & 2:2006 SQUARE HOLLOW SECTIONS**

Tolerances :	Square Hollow Sections						
	Characteristic						
Our Side Dimensions (B)	Side Length (mm)	Tolerance					
	B < 100	± 1% with a min. ± 0.5mm					
	100 ≤ B ≤ 200	± 0.8% ± 0.6%					
Thickness	± 10% for thickness ≤ 5.0mm & ± 0.5mm for Thickness > 5.0mm						
Concavity/ Convexity	Max. 0.8% with a min. of 0.5mm						
Squareness of Side	90° ± 1°						
External Corner Profile	- 156.0mm - 1.6T to 2.4T, 6.0 <- 1510.0mm - 2.0T to 3.0T, T > 10.0mm - 2.4T to 3.6T						
Twist	2.0 mm + 0.5mm/m length						
Straightness	0.15% of total length and 3.0 mm over any 1m length						
Mass Per Unit Length	± 6% on individual delivered length						
Chemical Composition							
Grade	Chemical composition % max.						
	C	Si	Mn	P	S	N	Carbon Equivalent (CEV)
	S235JRH	0.17	--	1.40	0.040	0.040	0.17
S275J0H	0.20	--	1.50	0.035	0.035	0.20	0.40
S275J2H	0.20	--	1.50	0.030	0.030	0.20	0.40



SPECIFICATION FOR STANDARD SIZES EN 10219-1&2:2006 SQUARE HOLLOW SECTIONS

S355J0H	0.22	0.55	1.60	0.035	0.035	0.009	0.45
S355J2H	0.22	0.55	1.60	0.030	0.030	--	0.45

Carbon Equivalent : Max carbon equivalent shall be

$$CEV = C + (Mn / 6) + (Cr + Mo + V) / 5 + (Ni + Cu) / 15$$

MECHANICAL PROPERTIES

Grade	Min. Yield Strength Roh(Mpa)		Tensile Strength Rm (MPa)		Elongation % Min.		Min. Impact Energy(J)			
	Th<3 mm		Th>3 mm		Th>3 mm		-20°C	0°C	20°C	
S235JRH	235		360-510		360-510		24		--	--
S275J0H	275		430-580		410-560		20		27	27
S275J2H	275		430-580		410-560		20		27	--
S355J0H	355		510-680		470-630		20		--	27
S355J2H	355		510-680		470-630		20		27	--

WORKMANSHIP -Free from overlap, Lamination,tool/roll marks,pin holes,open seam & other harmful defect.

PACKING-Box Type

MILL TEST CERTIFICATE -We can issue a MTC, Certifying that the tubes supplied comply with this standard.