



SQUARE HOLLOW SECTIONS
EN 10219 - 1 & 2 : 2006

Size	Thickness	Mass
H x B	T	M
mm	mm	kg/m
25 x 25	1.2	0.87
	1.5	1.06
	1.8	1.25
	2	1.36
	2.3	1.53
	2.5	1.64
	3	1.89
30 x 30	1.2	1.06
	1.5	1.3
	1.8	1.53
	2	1.68
	2.5	2.03
	3	2.36
	4	2.94
40 x 40	2.5	2.89
	3	3.41
	3.2	3.61
	4	4.39
	4.9	5.2
	5	5.28
50 x 50	2.5	3.68
	3	4.35
	3.2	4.62
	4	5.64
	4.9	6.74
	5	6.85
	6	7.99
	6.3	8.31
60 x 60	3	5.29
	3.2	5.62
	4	6.9
	4.9	8.28

Size	Thickness	Mass
H x B	T	M
mm	mm	kg/m
	5	8.42
	6	9.87
	6.3	10.3
	8	12.5
65 x 65	2	3.94
	2.5	29.57
	3	35.49
70 x 70	3	6.24
	3.2	6.63
	3.6	7.4
	4	8.15
	4.9	9.81
	5	9.99
	6	11.8
	6.3	12.3
	7.1	13.6
75 x 75	2.5	5.56
	3	6.6
	4	8.59
	5	10.5
80 x 80	6	12.3
	3.2	7.63
	3.6	8.53
	4	9.41
	4.9	11.4
	5	11.6
	5.6	12.8
	6	13.6



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Size	Thickness	Mass
H x B	T	M
mm	mm	kg/m
	6.3	14.2
	7.1	15.8
90 x 90	3.6	9.66
	4	10.7
	4.9	12.9
	5	13.1
	5.6	14.6
	6	15.5
	6.3	16.2
	7.1	18.1
100 x 100	8	20.1
	3.6	10.8
	4	11.9
	4.9	14.4
	5	14.7
	5.6	16.3
	6	17.4
	6.3	18.2
	7.1	20.3
	8	22.6
120 x 120	10	27.4
	4	14.4
	4.9	17.5
	5	17.8
	5.6	19.9
	6	21.2
	6.3	22.2
	7.1	24.7
	8	27.6
	8.8	30.1
	10	33.7

Size	Thickness	Mass
H x B	T	M
mm	mm	kg/m
125 x 125	12	39.5
	12.5	40.9
	2.5	9.49
	3	11.31
	4	14.9
	5	18.3
	6	21.7
	8	27.7
	9	30.6
	140 x 140	4.9
5		21
5.6		23.4
6		24.9
6.3		26.1
7.1		29.2
8		32.6
8.8		35.6
10		40
150 x 150		12
	12.5	48.7
	4.9	22.1
	5	22.6
	5.6	25.1
	6	26.8
	6.3	28.1
	7.1	31.4
	8	35.1
	8.8	38.4
	10	43.1
	12	50.8



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Size	Thickness	Mass
H x B	T	M
mm	mm	kg/m
	12.5	52.7
	16	65.2
160 x 160	5	24.1
	5.6	26.9
	6	28.7
	6.3	30.1
	7.1	33.7
	8	37.6
	8.8	41.1
	10	46.3
	12	54.6
	12.5	56.6
	14.2	63.3
180 x 180	5	27.3
	5.6	30.4
	6	32.5
	6.3	34
	7.1	38.1
	8	42.7
	8.8	46.7
	10	52.5
	12	62.1
	12.5	64.4
	14.2	72.2
200 x 200	5	30.4
	5.6	33.9
	6	36.2

Size	Thickness	Mass
H x B	T	M
mm	mm	kg/m
200 x 200	6.3	38
	7.1	42.6
	8	47.7
	8.8	52.2
	10	58.8
	12	69.6
	12.5	72.3
	14.2	81.1
	16	90.3
	250 x 250	5
5.6		42.7
6		45.7
6.3		47.9
12.5		91.9
12		88.5
14.2		103
16		115
300 x 300	6	54.7
	8	72.8
	10	88.4
	12	109.2
	16	144
350 x 350	8	84.93
	10	106
	12	127.4
400 x 400	8	97
	10	121.3
	12	145.6
	16	194.7



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

Tolerances :

Characteristic	Square Hollow Sections	
Out Side Dimensions (B)	Side Length (mm)	Tolerance
	B<100	± 1% with a min. ± 0.5mm
	100 3200	± 0.8%
	B>200	± 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							
	C	Si	Mn	P	S	N	Carbon equivalent (CEV)
S235JRH	0.17	--	1.40	0.040	0.040	0.17	0.35
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
S355J0H	0.22	0.55	1.6	0.035	0.035	0.009	0.45
S355J2H	0.22	0.55	1.6	0.03	0.03	--	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)		
		Thk<3 mm	Th1.3 mm			0C	20C
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	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