

RECTANGULAR HOLLOW SECTIONS
EN 10219 - 1 & 2 : 2006



Size H x B mm	Thickness T mm	Mass M kg/m
40 x 20	1.2	1.06
	1.5	1.3
	1.8	1.53
	2	1.68
	2.5	2.03
	3	2.36
50 x 25	1.5	1.65
	1.8	1.95
	2	2.15
	2.5	3.07
	3	3.88
	4	
50 x 30	2.5	2.89
	3	3.41
	3.2	3.61
	4	4.39
	4.9	5.2
60 x 30	5	5.28
	1.5	2
	1.8	2.38
	2	2.62
	2.5	3.21
	3	3.77
	4	4.83
60 x 40	2.5	3.68
	3	4.35
	3.2	4.62
	4	5.64
	4.9	6.74

Size H x B mm	Thickness T mm	Mass M kg/m
	5	6.85
	6	7.99
	6.3	8.31
65 x 35	2	2.93
	2.5	3.6
	3	4.25
75 x 50	1.5	2.83
	1.8	3.37
	2	3.72
	2.5	4.58
	3	5.42
	4	7.02
	5	8.52
	6	9.92
80 x 40	3	5.29
	3.2	5.62
	4	6.9
	4.9	8.28
	5	8.42
	6	9.87
	6.3	10.3
	8	12.5



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Size H x B mm	Thickness T mm	Mass M kg/m
90 x 50	3	6.24
	3.2	6.63
	3.6	7.4
	4	8.15
	4.9	9.81
	5	9.99
	5.6	11.1
	6	11.8
	6.3	12.3
	7.1	13.6
	8	15
100x50	3.2	7.13
	3.6	7.96
	4	8.78
	4.9	10.6
	5	10.8
100x60	6	12.7
	6.3	13.3
	7.1	14.7
	8	16.3
	3	7.18
	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
	6.3	14.2
	7.1	15.8

Size H x B mm	Thickness T mm	Mass M kg/m
	8.0	17.5
120 x 60	3.6	9.7
	4.0	10.7
	4.9	12.9
	5.0	13.1
	5.6	14.6
	6.0	15.5
	6.3	16.2
	7.1	18.1
	8.0	20.1
120 x 80	3.6	10.8
	4.0	11.9
	4.9	14.4
	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
125 x 75	2.5	7.53
	3.0	8.96
	4.0	11.70
	4.5	13.08
	5.0	14.40
	5.5	15.71
	6.0	17.00

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Size H x B mm	Thickness T mm	Mass M kg/m
150 x 75	2	6.86
	2.5	8.51
	3	10.13
	4	13.3
	4.5	14.85
	5	16.37
	5.5	17.87
150 x 100	6	19.09
	8	21.53
	4	15.1
	4.9	18.3
	5	18.6
	5.6	20.7
	6	22.1
	6.3	23.1
	7.1	25.9
	8	28.9
160 x 80	8.8	31.5
	10	35.3
	12	41.4
	12.5	42.8
	4	144
	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 H x B mm	Thickness T mm	Mass M kg/m
180 x 100	12	39.5
	12.5	40.9
	5	21
	5.6	23.4
	6	24.9
	6.3	26.1
	7.1	29.2
200 x 100	8	32.6
	8.8	35.6
	10	40
	12	47
	12.5	48.7
	5	22.6
	5.6	25.1
	6	26.8
	6.3	28.1
	7.1	31.4
200 x 120	8	35.1
	8.8	38.4
	10	43.1
	12	50.8
	12.5	52.7
	14.2	58.9
	16	65.2
	5	24.1
	5.6	26.9
	6	28.7
6.3	30.1	
7.1	33.7	
8	37.6	

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Size H x B mm	Thickness T mm	Mass M kg/m
	8.8	41.1
	10	46.3
	12	54.6
	12.5	56.6
	14.2	63.3
	16	70.2
200 x 150	5	26.5
	5.6	29.5
	6	31.5
	6.3	33
	7.1	37
	8	41.4
	8.8	45.3
	10	51
	12	60.2
	12.5	62.5
	14.2	70
	16	77.7
250 x 100	5	26.5
	5.6	29.5
	6	31.5
	6.3	33
	7.1	37
	8	41.4
	8.8	45.3
	10	51
	12	60.2
	12.5	62.5
	14.2	70
	16	77.7

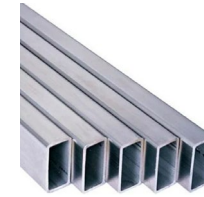
Size H x B mm	Thickness T mm	Mass M kg/m
250 x 150	5	30.4
	5.6	33.9
	6	36.2
	6.3	38
	7.1	42.6
	8	47.7
	8.8	52.2
	10	58.8
	12	69.6
	12.5	72.3
	14.2	81.1
	16	90.3
260 x 140	5	30.4
	5.6	33.9
	6	36.2
	6.3	38
	7.1	42.6
	8	47.7
	8.8	52.2
	10	58.8
	12	69.6
	12.5	72.3
	14.2	81.1
	16	90.3
300 x 100	5	30.4
	5.6	33.9
	6	36.2
	6.3	38
	7.1	42.6
	8	47.7



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

Tolerances :

Characteristic	Rectangular Hollow Sections		
	Side Length (mm)	Tolerance	
Out Side Dimensions (B & H)	H,B<100	±1% with a min. ±0.5mm	
	100<_H, B<_200	± 0.8%	
	H,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	1-56.0mm - 1.6T to 2.4T, 6.0 <1.510.0mm - 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		



**SPECIFICATION FOR STANDARD SIZES
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Chemical Composition

Chemical composition % max							
Grade	C	Si	Mn	P	S	N	Carbon Equivalent (CEV)
S235JRH	0.17	--	1.40	0.040	0.040	0.009	0.35
S275J0H	0.20		1.50	0.035	0.035	0.009	0.40
S275J2H	0.20		1.50	0.030	0.030	--	0.40
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 Ren(Mpa)	Tensile Strength Rm (MPa)		Elongation Min%.	Min. Impact Energy(J)		
		Thk<3 mm	Th1.3 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	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.