

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

RECTANGULAR HOLLOW SECTIONS														
Nominal Sizes		Wall Thickness		Weight		Pieces/bdls	Nominal Sizes		Wall Thickness		Weight		Pieces/bdls	
Inch	NB(MM)	Inch	MM	Kg/Mtr	lb/Ft		Inch	NB(MM)	Inch	MM	Kg/Mtr	lb/Ft		
13/5 X 3/4	40 X 20	0.047	1.2	1.06	0.710	100	4 11/16 x 3 1/7	120 x 80	0.079	2.0	6.07	4.079	20	
		0.059	1.5	1.30	0.871	100			0.098	2.5	7.53	5.060	20	
		0.071	1.8	1.53	1.027	100			0.118	3.0	8.96	6.022	20	
		0.079	2.0	1.68	1.129	100			0.157	4.0	11.70	7.863	16	
		0.098	2.5	2.03	1.364	64			0.197	5.0	14.40	9.677	16	
		0.118	3.0	2.36	1.586	64			0.236	6.0	17.00	11.425	12	
2 X 1	50 x 25	0.059	1.5	1.65	1.109	100		5 x 3	125 x 75	0.276	7.0	19.12	12.849	12
		0.071	1.8	1.95	1.312	100				0.315	8.0	21.40	14.382	9
		0.079	2.0	2.15	1.444	100				0.354	9.0	23.53	15.813	9
		0.098	2.5	2.62	1.761	64				0.098	2.5	7.53	5.058	30
		0.118	3.0	3.07	2.062	64				0.118	3.0	8.96	6.022	24
		0.157	4.0	3.88	2.610	49				0.157	4.0	11.70	7.863	20
2 x11/ 5	50 x 30	0.059	1.5	1.77	1.188	100	6 x 3		150 x 75	0.177	4.5	13.08	8.793	16
		0.071	1.8	2.09	1.407	100				0.197	5.0	14.40	9.677	16
		0.079	2.0	2.31	1.552	100				0.217	5.5	15.71	10.556	16
		0.098	2.5	2.82	1.895	64				0.236	6.0	17.00	11.425	10
		0.118	3.0	3.30	2.218	64				0.079	2.0	6.86	4.610	20
		0.157	4.0	4.20	2.823	49				0.098	2.5	8.51	5.718	20
21/3 x 11/5	60 x 30	0.059	1.5	2.00	1.346	100		6 x 4	150 x	0.118	3.0	10.13	6.808	16
		0.071	1.8	2.38	1.597	100				0.157	4.0	13.30	8.941	16
		0.079	2.0	2.62	1.760	100				0.177	4.5	14.85	9.981	16
		0.098	2.5	3.21	2.157	100				0.197	5.0	16.37	11.003	12
		0.118	3.0	3.77	2.536	64				0.217	5.5	17.87	12.007	12
		0.157	4.0	4.83	3.243	64				0.236	6.0	19.09	12.832	12
21/3 x 13/5	60 x 40	0.059	1.5	2.24	1.504	81	6 x 4		150 x	0.315	8.0	24.53	16.485	12
		0.071	1.8	2.66	1.786	64				0.118	3.0	11.31	7.601	20

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		0.079	2.0	2.93	1.96	64			0.157	4.0	14.90	10.013	16		
		0.098	2.5	3.60	2.41	49			0.197	5.0	18.30	12.298	16		
		0.118	3.0	4.25	2.85	49			0.236	6.0	21.70	14.583	12		
		0.157	4.0	5.45	3.66	49			0.315	8.0	27.70	18.616	9		
		0.197	5.0	6.56	4.409	36			0.354	9.0	30.60	20.565	9		
		0.236	6.0	7.56	5.08	25			0.157	4.0	18.00	12.097	12		
3 x 2	75 x 50	0.059	1.5	2.83	1.90	49	8 x 4	200 x 100	0.197	5.0	22.30	14.987	9		
		0.071	1.8	3.37	2.26	49			0.236	6.0	26.40	17.742	9		
		0.079	2.0	3.72	2.49	49			0.315	8.0	33.90	22.782	6		
		0.098	2.5	4.58	3.08	36			0.394	10.0	41.30	27.755	6		
		0.118	3.0	5.42	3.64	36			0.472	12.0	47.10	31.653	4		
		0.157	4.0	7.02	4.72	25			0.157	4.0	21.15	14.214	9		
		0.197	5.0	8.52	5.72	25			0.197	5.0	26.18	17.594	9		
		0.236	6.0	9.92	6.66	25			0.236	6.0	31.11	20.907	6		
31/7 x 13/5	80 x 40	0.059	1.5	2.71	1.82	49	8 x 6	200 x 150	0.315	8.0	40.23	27.036	6		
		0.071	1.8	3.22	2.16	49			0.394	10.0	49.12	33.011	4		
		0.079	2.0	3.56	2.39	49			0.472	12.0	56.57	38.017	4		
		0.098	2.5	4.39	2.95	36			0.157	4.0	24.29	16.324	6		
		0.118	3.0	5.19	3.48	36			0.197	5.0	30.10	20.228	6		
		0.157	4.0	6.71	4.50	25			0.236	6.0	35.80	24.059	4		
		0.197	5.0	8.13	5.46	25			0.315	8.0	46.50	31.250	4		
		0.236	6.0	9.45	6.35	20			0.394	10.0	57.00	38.306	4		
4 X 2	100 x 50	0.059	1.5	3.42	2.29	36	10 x 6	250 x 150	0.472	12.0	66.00	44.355	2		
		0.079	2.0	4.50	3.02	36			12 x 8	300 x 200	0.157	4.0	30.57	20.544	4
		0.098	2.5	5.56	3.737	30					0.197	5.0	37.96	25.511	4
		0.118	3.0	6.60	4.43	25					0.236	6.0	45.20	30.376	4
		0.157	4.0	8.59	5.77	25					0.315	8.0	59.10	39.718	4

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		0.177	4.5	9.55	6.419	20			0.394	10.0	72.70	48.858	2
		0.197	5.0	10.50	7.056	20			0.472	12.0	84.80	56.989	2
		0.236	6.0	12.30	8.266	20							
411/16 x 21/3	120 x 60	0.098	2.5	6.74	4.530	30							
		0.118	3.0	8.01	5.383	25							
		0.157	4.0	10.50	7.056	25							
		0.177	4.5	11.67	7.843	20							
		0.197	5.0	12.80	8.602	20							

TOLERANCES :-

CHARACTERISTIC	RECTANGULAR HOLLOW SECTIONS	
OUT SIDE DIMENSIONS (B & H)	Side Length(mm) H,B<100	Tolerance ±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/	Max. 0.8% with a min. of 0.5mm	
SQUARENESS OF SIDE	90° ± 1°	
EXTERNAL CORNER PROFILE	T≤6.0mm - 1.6T to 2.4T, 6.0 <T≤10.0mm - 2.0T to 3.0T, T>10.0mm - 2.4T to 3.6T	
TWIST	2.0 mm + 0.5mm/m length	

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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	0.009	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 R_{eh}(Mpa)	Tensile Strength R_m (MPa)		Elongation % Min.	Min. Impact Energy(J)		
		Thk<3 mm	Thk≥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.							