



**SPECIFICATION FOR STANDARD SIZES  
AS1163:2009 SQUARE HOLLOW SECTIONS**

SQUARE 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			
3/4 X 3/4	20 X 20	0.063	1.6	0.873	0.587	150	4 x 4	100 x100	0.118	3.0	8.96	6.022	20		
1 x 1	25 x 25	0.063	1.6	1.12	0.753	150			0.157	4.0	11.60	7.796	20		
		0.079	2.0	1.36	0.914	100			0.197	5.0	14.2	9.543	16		
		0.098	2.5	1.64	1.102	80			0.236	6.0	16.7	11.223	12		
		0.118	3.0	1.89	1.270	64			0.354	9.0	23.5	15.793	9		
11/5 x 11/5	30 x 30	0.063	1.6	1.38	0.927	100	5 x 5	125 x125	0.157	4.0	14.8	9.95	16		
13/8 x 13/8	35 x 35	0.079	2.0	1.68	1.129	100			0.197	5.0	18.2	12.23	12		
		0.063	1.6	1.63	1.095	100			0.236	6.0	21.4	14.38	12		
		0.079	2.0	1.99	1.337	80			0.354	9.0	30.6	20.56	9		
		0.098	2.5	2.42	1.626	64			0.197	5.0	22.1	14.85	9		
13/5 x 13/5	40 x 40	0.118	3.0	2.83	1.902	49	6 X 6	150 x 150	0.236	6.0	26.2	17.61	9		
		0.063	1.60	1.88	1.263	100			0.354	9.0	37.70	25.34	6		
		0.079	2.0	2.31	1.552	80			8 X 8	200 X 200	0.197	5.0	29.90	20.09	6
		0.098	2.5	2.82	1.895	64					0.236	6.0	35.60	23.92	4
2 x 2	50 x 50	0.157	4.0	4.09	2.749	49	10 X 10	250 X 250	0.354	9.0	51.80	34.81	4		
		0.063	1.6	2.38	1.599	64			0.236	6.0	45.0	30.24	4		
		0.079	2.0	2.93	1.969	49			0.354	9.0	65.9	44.29	4		
		0.098	2.5	3.60	2.419	49									
		0.118	3.0	4.25	2.856	36									
29/16 x29/16	65 X 65	0.157	4.0	5.35	3.595	36									
		0.079	2.0	3.88	2.608	49									
		0.098	2.5	4.78	3.212	36									
3 x 3	75 X 75	0.118	3.0	5.66	3.804	36									
		0.098	2.5	5.56	3.737	36									
		0.118	3.0	6.60	4.435	36									



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C 250, C250Lo	0.12	0.05	0.50	0.03	0.03	0.15	0.10	0.10	0.25	0.25	0.04	0.03(Note-1)	0.25
C 350, C350Lo	0.20	0.45	1.60	0.03	0.03	0.30	0.10	0.10	0.25	0.25	0.04	0.15(Note-2)	0.43
C 450, C450Lo	0.20	0.45	1.70	0.03	0.03	0.50	0.35	0.10	0.25	0.25	0.04	0.15(Note-2)	0.43

Note-1) Nb-0.010 Max

Note-2)- V-0.10 Max.

Carbon Equivalent : Carbon equivalent shall be calculated from the following formula.CEV =

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

**MECHANICAL PROPERTIES**

GRADE	Min. Yield Strength R <sub>eh</sub> (Mpa)	Tensile Strength R <sub>m</sub> (Mpa)	Elongation	Test Temp.	Min. Impact Energy(J)					
					Size of Test piece					
					10 X 10 mm		10 X 7.5 mm		10 X 5.0 mm	
					Average of 3 tests	Individual Test	Average of 3 tests	Individual Test	Average of 3 tests	Individual Test
C 250/C250Lo	250	320	18	0°C	27	20	22	16	18	13
C 350/C350Lo	350	430	16							
C 350/C350Lo	450	500	14							

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

**MARKING**

: We can do on line stenciling as per this stanadrd & as per customer needs at one meter interval

**PACKING**-Box Type

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