



## AS/NZS 1163 RECTANGULAR HOLLOW SECTIONS

NOMINAL SIZES		WALL THICKNESS		MASS PER UNIT LENGTH		PIECES/BN DLS	NOMINAL SIZES		WALL THICKNESS (t)		MASS PER UNIT LENGTH		PIECES/BN DLS
Inch	NB	Inch	mm	Kg/Mtr	lb/ft		Inch	NB(mm)	Inch	mm	Kg/Mtr	lb/ft	
2 X 3/4	50 X 20	0.063	1.60	1.63	1.095	100	4 X 2	100 X 50	0.079	2.0	4.50	3.024	36
		0.079	2.00	1.99	1.337	100			0.098	2.5	5.56	3.737	30
		0.098	2.50	2.42	1.626	64			0.118	3.0	6.60	4.435	25
		0.118	3.00	2.83	1.902	64			0.138	3.5	7.53	5.06	25
2 X 1	50 X 25	0.063	1.60	1.75	1.176	100			0.157	4.0	8.49	5.706	25
		0.079	2.00	2.15	1.445	100			0.197	5.0	10.30	6.922	20
		0.098	2.50	2.62	1.761	64			0.236	6.0	12.00	8.065	20
		0.118	3.00	3.07	2.063	64			5 X 3	125 X 75	0.118	3.0	8.96
2. 9/16" X 1.03/8"	65 X 35	0.079	2.00	2.93	1.969	64	0.157	4.0			11.60	7.796	20
		0.098	2.50	3.60	2.419	49	0.197	5.0			14.20	9.543	16
		0.118	3.00	4.25	2.856	49	6 X 4	150 X 100			0.157	4.0	14.80
3 X 1	75 X 25	0.063	1.60	2.38	1.599	64			0.197	5.0	18.20	12.23	12
		0.079	2.00	2.93	1.969	64			0.236	6.0	21.40	14.38	12
		0.098	2.50	3.60	2.419	49			3 X 2	75 X 50	0.079	2.00	3.72
0.098	2.50	4.58	3.078	36									
0.118	3.00	5.42	3.642	36									
0.157	4.00	6.92	4.651	25									
3 X 1. 1/2	76 X 38	0.063	1.60	2.73	1.835	50	3 X 1	75 X 25	0.063	1.60	2.73	1.835	50
		0.079	2.00	3.37	2.265	56			0.079	2.00	3.37	2.265	56
		0.098	2.50	4.15	2.789	45			0.098	2.50	4.15	2.789	45
		0.118	3.00	4.90	3.293	40			0.118	3.00	4.90	3.293	40
		0.157	4.00	6.23	4.187	32			0.157	4.00	6.23	4.187	32

### TOLERANCES FOR SHAPE AND MASS:

<b>EXTERNAL DIMENSIONS (d &amp; b)</b>	: ±1% with a minimum of ±0.5 mm
<b>THICKNESS (T)</b>	: As per standard
<b>CONCAVITY/CONVEXITY</b>	: Max 0.8% or 0.5mm, whichever is greater
<b>SQUARNESS OF SIDES</b>	: 90° ±1°
<b>EXTERNAL CORNER PROFILE</b>	: Perimeter (mm), Equivalent to 50x50 or less : 1.5t to 3.0t. Equivalent to greater than 50x50 : 1.8t to 3.0t
<b>TWIST</b>	: 2.0+ 0.5 mm/m length
<b>STRAIGHTNESS</b>	: 0.15% of total length
<b>MASS (m) PER UNIT LENGTH</b>	: Not less than 0.96 times the specified mass on individual length

<b>CHEMICAL COMPOSITION</b>	<b>GRADE C 250, C250L0</b>	: %Max: C-0.12%, Si-0.05%, Mn-0.50%, P-0.03%, S-0.03%, Cr-0.15%, Mo-0.10%, Al-0.10%, Ni-0.25%, Cu-0.25%
	<b>GRADE C350, C350L0</b>	: %Max: C-0.20%, Si-0.45%, Mn-1.60%, P-0.03%, S-0.03%, Cr-0.30%, Mo-0.10%, Al-0.10%, Ni-0.25%, Cu-0.25%
	<b>GRADE C 450, C450L0</b>	: %Max: C-0.20%, Si-0.45%, Mn-1.70%, P-0.03%, S-0.03%, Cr-0.50%, Mo-0.35%, Al-0.10%, Ni-0.25%, Cu-0.25%

<b>MECHANICAL</b>	<b>GRADE C 250, C250L0</b>	: Min Yield Strength(Mpa)- 250, Tensile Strength(Mpa)- 320, Elongation % 18.
	<b>GRADE C350, C350L0</b>	: Min Yield Strength(Mpa)- 350, Tensile Strength(Mpa)- 430, Elongation % 16.
	<b>GRADE C 450, C450L0</b>	: Min Yield Strength(Mpa)- 450, Tensile Strength(Mpa)- 500, Elongation % 14.

<b>WORKMANSHIP</b>	: Free from overlap, Lamination, tool/roll marks, pin holes, open seam & other harmful defect.
<b>PACKING</b>	: Box type.



# AS/NZS 1163 SQUARE HOLLOW SECTIONS

NOMINAL SIZES		WALL THICKNESS		MASS PER UNIT LENGTH		PIECES/BN DLS	NOMINAL SIZES		WALL THICKNESS (t)		MASS PER UNIT LENGTH		PIECES/BN DLS		
Inch	NB	Inch	mm	Kg/Mtr	lb/ft		Inch	NB(mm)	Inch	mm	Kg/Mtr	lb/ft	LS		
3/4 X 3/4	20 X 20	0.063	1.6	0.873	0.587	150	3 X 3	75 X 75	0.038	2.5	5.56	3.737	36		
1 X 1	25 X 25	0.063	1.6	1.120	0.753	150			0.118	3.0	6.60	4.435	36		
		0.079	2.0	1.380	0.914	100			0.138	3.5	7.53	5.060	36		
		0.096	2.5	1.640	1.102	80			0.157	4.0	8.49	5.706	25		
		0.118	3.0	1.890	1.270	64			0.197	5.0	10.30	6.922	20		
1 1/5 X 1 1/5	30 X 30	0.063	1.6	1.380	0.927	100			0.236	6.0	12.00	8.065	20		
		0.079	2.0	1.680	1.129	100			4 X 4	100 X 100	0.118	3.0	8.95	6.022	20
1 3/8 X 1 3/8	35 X 35	0.063	1.6	1.630	1.095	100					0.157	4.0	11.60	7.795	20
		0.079	2.0	1.990	1.337	80					0.197	5.0	14.20	9.543	16
		0.098	2.5	2.420	1.626	64					0.236	6.0	16.70	11.223	12
		0.118	3.0	2.630	1.902	49	0.354	9.0			23.50	15.793	9		
1 3/5 X 1 3/5	40 X 40	0.063	1.6	1.880	1.263	100	5 X 5	125 X 125			0.157	4.0	14.80	9.950	16
		0.079	2.0	2.310	1.552	80					0.197	5.0	18.20	12.230	12
		0.096	2.5	2.820	1.895	64					0.236	6.0	21.40	14.380	12
		0.157	4.0	4.090	2.749	49					0.354	9.0	30.60	20.560	9
2 X 2	50 X 50	0.063	1.6	2.380	1.599	64									
		0.079	2.0	2.930	1.969	49									
		0.096	2.5	3.600	2.419	49									
		0.118	3.0	4.250	2.856	36									
		0.157	4.0	5.350	3.595	36									

**TOLERANCES FOR SHAPE AND MASS:**

<b>EXTERNAL DIMENSIONS (d &amp; b)</b>	: ±1% with a minimum of ±0.5 mm
<b>THICKNESS (T)</b>	: As per standard
<b>CONCAVITY/CONVEXITY</b>	: Max 0.8% or 0.5mm, whichever is greater
<b>SQUARNESS OF SIDES</b>	: 90° ±1°
<b>EXTERNAL CORNER PROFILE</b>	: Perimeter (mm), Equivalent to 50x50 or less : 1.5t to 3.0t. Equivalent to greater than 50x50 : 1.8t to 3.0t
<b>TWIST</b>	: 2.0+ 0.5 mm/m length
<b>STRAIGHTNESS</b>	: 0.15% of total length
<b>MASS (m) PER UNIT LENGTH</b>	: Not less than 0.96 times the specified mass on individual length
<b>CHEMICAL COMPOSITION</b>	<b>GRADE C 250, C250LO</b> : %Max: C-0.12%, Si-0.05%, Mn-0.50%, P-0.03%, S-0.03%, Cr-0.15%, Mo-0.10%, Al-0.10%, Ni-0.25%, Cu-0.25%
	<b>GRADE C350, C350LO</b> : %Max: C-0.20%, Si-0.45%, Mn-1.60%, P-0.03%, S-0.03%, Cr-0.30%, Mo-0.10%, Al-0.10%, Ni-0.25%, Cu-0.25%
	<b>GRADE C 450, C450LO</b> : %Max: C-0.20%, Si-0.45%, Mn-1.70%, P-0.03%, S-0.03%, Cr-0.50%, Mo-0.35%, Al-0.10%, Ni-0.25%, Cu-0.25%
<b>MECHANICAL</b>	<b>GRADE C 250, C250LO</b> : Min Yield Strength(Mpa)- 250, Tensile Strength(Mpa)- 320, Elongation % 18.
	<b>GRADE C350, C350LO</b> : Min Yield Strength(Mpa)- 350, Tensile Strength(Mpa)- 430, Elongation % 16.
	<b>GRADE C 450, C450LO</b> : Min Yield Strength(Mpa)- 450, Tensile Strength(Mpa)- 500, Elongation % 14.
<b>WORKMANSHIP</b>	: Free from overlap, Lamination, tool/roll marks, pin holes, open seam & other harmful defect.
<b>PACKING</b>	: Box type.