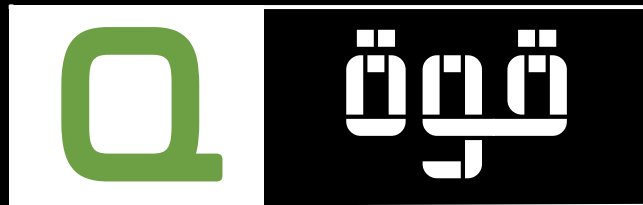




IT'S ALL ABOUT TIME





TUBES & PIPES



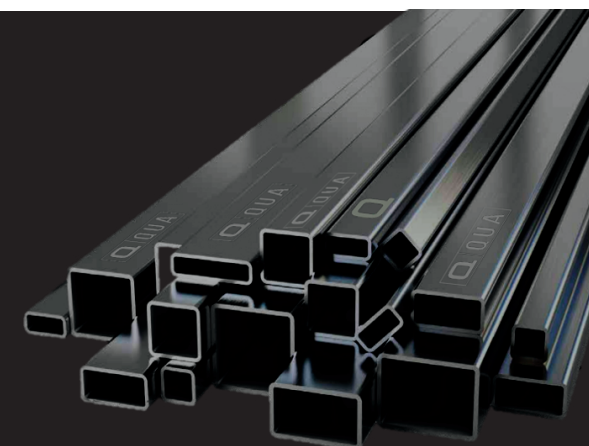
A PRODUCT OF THL UAE

We're the technology masters of hollow sections - we make them with the technology that keeps us ahead of the curve.



YES, BECAUSE IT'S ALL ABOUT TIME!

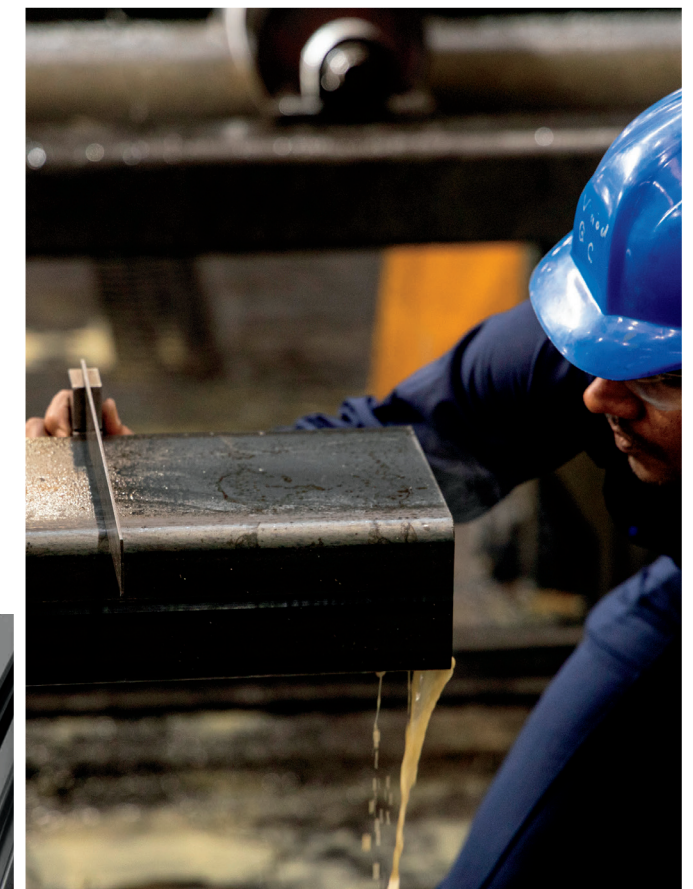
At our company, we work hard to bring you the latest and greatest technology for manufacturing hollow sections (RHS/SHS). We do this by using High-frequency induction welding at high production speed, without any roll change, which gives us the advantage of just-in-time delivery of high-quality products to our customers.



Qua™ comes as an exclusive brand for structural steel tubes, ERW (electric resistance welding) square tubes, rectangular tubes, of any size and shape. The technology by which it is manufactured eliminates the need for secondary welding.

WHY QUA™

THL Tube and Pipe has been supplying its certified and quality products to the market and sees an opportunity in investing in the Kingdom to facilitate seamless distribution of its products.

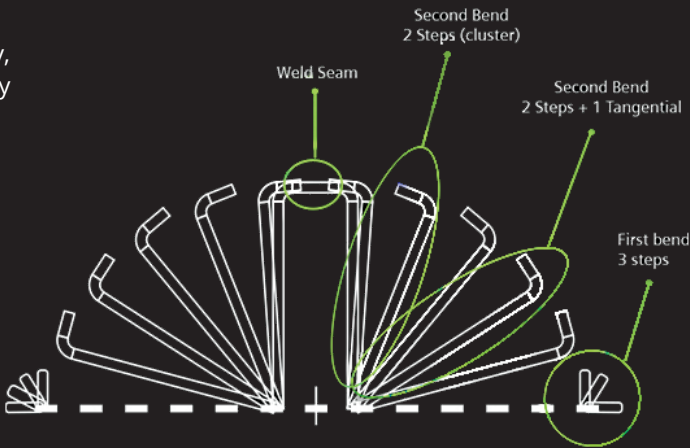


DIRECT FORMING TECHNOLOGY (DFT)

- 1

DFT, which stands for Direct Forming Technology, is a cutting-edge method used to create tubes. By incorporating it into the mill range without altering the roll, this technology opens up the possibility of producing customized hollow sections.
- 2

A fully automatic and computerized process, speeds up setup time and allows easy operation with an intuitive user interface.



THE ONLY BUSINESS IN THE UAE WITH CUTTING-EDGE TECHNOLOGY FOR SQUARE/RECTANGULAR HOLLOW SECTIONS

REASONS TO CHOOSE



COST-EFFECTIVE & TIME SAVER

Helps save time from setting up rollers, enables just-in-time delivery by welding at high production speed.



TAILOR-MADE SOLUTIONS

Manufacturing hollow sections in custom sizes and delivering goods of excellent quality.



ACCURACY

Proven design, automatic and computerized process enabling technical perfection.



PRODUCT RANGE

Square Hollow Section (SHS)

Size Range: ¾" X ¾" to 10" X 10"

Rectangular Hollow Section (SHS)

Size Range: ½"x ¾" to 12" X 8"

ASTM A500, EN 10219 -1 & 2, AS/NZS 1163

Square Hollow Section (SHS)

Product Range: 80mm x 80mm to 200mm x 200mm
Thickness: 3mm to 12.5mm

Rectangular Hollow Section (RHS)

Product Range: 90mm x 80mm to 250mm to 150mm
Thickness: 3mm to 12.5mm



UNIFORMITY

Achieving technical perfections and guaranteeing corner radius control are made possible by the autonomous process control and computerization.



FOR ALL APPLICATIONS

Qua™'s extreme versatility makes it useful in a variety of industries, from architecture to agriculture, and general engineering.

EN 10219-1&2 SQUARE HOLLOW SECTIONS

TECHNICAL DATA SHEET

Nominal Sizes		Wall Thickness		Mass per unit length		Pcs/ bundle
Inch	NB (mm)	Inch	mm	Kg/mtr	lb/ft	
5/8 X 5/8	16 X 16	0.047	1.20	0.53	0.355	200
		0.059	1.50	0.64	0.428	200
		0.071	1.80	0.74	0.495	150
		0.079	2.00	0.80	0.536	150
3/4 x 3/4	19 x 19	0.047	1.20	0.64	0.431	200
		0.059	1.50	0.78	0.523	200
		0.071	1.80	0.91	0.609	150
		0.079	2.00	0.99	0.663	150
		0.098	2.50	1.17	0.785	100
		0.118	3.00	1.33	0.890	80
1 x 1	25 x 25	0.047	1.20	0.87	0.583	150
		0.059	1.50	1.06	0.713	150
		0.071	1.80	1.25	0.837	100
		0.079	2.00	1.36	0.914	100
		0.091	2.30	1.53	1.030	80
		0.098	2.50	1.64	1.102	80
		0.118	3.00	1.89	1.270	64
1 1/5 x 1 1/5	30 x 30	0.047	1.20	1.06	0.710	100
		0.059	1.50	1.30	0.871	100
		0.071	1.80	1.53	1.027	100
		0.079	2.00	1.68	1.129	100
		0.098	2.50	2.03	1.364	64
		0.118	3.00	2.36	1.586	64
		0.157	4.00	2.94	1.977	49
1 1/8 x 1 1/8	38 x 38	0.059	1.50	1.67	1.124	100
		0.071	1.80	1.98	1.331	80
		0.079	2.00	2.18	1.464	80
		0.098	2.50	2.66	1.788	64
		0.118	3.00	3.12	2.093	49
1 3/5 x 1 3/5	40 x 40	0.157	4.00	3.95	2.653	49
		0.059	1.50	1.77	1.188	100
		0.071	1.80	2.09	1.407	80
		0.079	2.00	2.31	1.552	80
		0.098	2.50	2.82	1.895	64
		0.118	3.00	3.30	2.218	49
		0.157	4.00	4.20	2.823	49
		0.197	5.00	5.00	3.360	49
2 x 2	50 x 50	0.236	6.00	5.70	3.831	49
		0.059	1.50	2.24	1.504	64
		0.079	2.00	2.93	1.969	49
		0.098	2.50	3.60	2.419	49
		0.118	3.00	4.25	2.856	36

Size (Inch)	NB (mm)	Thickness (Inch)	Thickness (mm)	Kg/mtr	lb/ft	Pcs/ bundle
		0.157	4.00	5.45	3.663	36
		0.197	5.00	6.56	4.409	25
		0.236	6.00	7.56	5.081	25
2 1/3 X 2 1/3	60 x 60	0.059	1.50	2.71	1.821	49
		0.079	2.00	3.56	2.392	49
		0.098	2.50	4.39	2.950	36
		0.118	3.00	5.19	3.488	36
		0.157	4.00	6.71	4.509	25
		0.177	4.50	7.43	4.995	25
		0.197	5.00	8.13	5.464	25
		0.236	6.00	9.45	6.351	20
2 1/2 x 2 1/2	63.5 x 63.5	0.059	1.50	2.87	1.929	49
		0.079	2.00	3.78	2.540	49
		0.118	3.00	5.52	3.710	36
		0.157	4.00	7.15	4.805	25
		0.197	5.00	8.68	5.833	25
		0.236	6.00	10.11	6.794	20
2 3/4 x 2 3/4	70 x 70	0.059	1.50	3.18	2.137	36
		0.079	2.00	4.19	2.816	36
		0.098	2.50	5.17	3.474	36
		0.118	3.00	6.13	4.120	36
		0.157	4.00	7.97	5.356	25
		0.177	4.50	8.85	5.948	25
		0.197	5.00	9.70	6.519	25
		0.236	6.00	11.33	7.614	25
3 x 3	75 x 75	0.059	1.50	3.42	2.298	36
		0.079	2.00	4.50	3.026	36
		0.098	2.50	5.56	3.739	36
		0.118	3.00	6.60	4.435	36
		0.157	4.00	8.59	5.776	25
		0.177	4.50	9.55	6.419	25
		0.197	5.00	10.50	7.056	20
		0.236	6.00	12.30	8.266	20
		0.079	2.00	4.82	3.237	36
3 1/7 x 3 1/7	80 x 80	0.098	2.50	5.96	4.003	36
		0.118	3.00	7.07	4.751	36
		0.157	4.00	9.22	6.196	25
		0.177	4.50	10.26	6.894	25
		0.197	5.00	11.30	7.594	20
		0.236	6.00	13.20	8.871	16
		0.315	8.00	16.40	11.022	12
		0.354	9.00	17.90	12.030	12
3 1/2 x 3 1/2	89 x 89	0.079	2.00	5.38	3.616	36
		0.098	2.50	6.66	4.476	36
		0.118	3.00	7.92	5.323	36
		0.157	4.00	10.35	6.956	25
		0.197	5.00	12.68	8.522	20
		0.236	6.00	14.91	10.020	16
		0.315	8.00	18.62	12.513	12
		0.354	9.00	20.43	13.730	12

Size (Inch)	NB (mm)	Thickness (Inch)	Thickness (mm)	Kg/mtr	lb/ft	Pcs/Bundle
3 6/11 x 3 6/11	90 x 90	0.079	2.00	5.40	3.629	36
		0.098	2.50	6.70	4.503	36
		0.118	3.00	8.01	5.383	36
		0.157	4.00	10.50	7.056	25
		0.197	5.00	12.80	8.602	20
		0.236	6.00	15.10	10.148	16
		0.315	8.00	18.90	12.702	12
		0.354	9.00	20.70	13.911	12
4 x 4	100 x 100	0.079	2.00	6.07	4.081	20
		0.098	2.50	7.53	5.058	20
		0.118	3.00	8.96	6.022	20
		0.157	4.00	11.70	7.863	20
		0.177	4.50	13.08	8.793	16
		0.197	5.00	14.40	9.677	16
		0.217	5.50	15.71	10.556	12
		0.236	6.00	17.00	11.425	12
		0.315	8.00	21.40	14.382	9
		0.354	9.00	23.53	15.813	9
		0.394	10.00	25.60	17.204	9
		0.472	12.00	28.31	19.026	9
4 11/15 x 4 11/15	120 x120	0.098	2.50	9.10	6.116	20
		0.118	3.00	10.80	7.258	20
		0.157	4.00	14.20	9.543	16
		0.197	5.00	17.50	11.761	12
		0.236	6.00	20.70	13.911	12
		0.315	8.00	26.40	17.742	9
		0.354	9.00	29.20	19.624	9
		0.394	10.00	31.80	21.371	9
		0.472	12.00	35.80	24.059	9
5 x 5	125 x 125	0.098	2.50	9.49	6.378	20
		0.118	3.00	11.31	7.601	16
		0.157	4.00	14.90	10.013	16
		0.197	5.00	18.30	12.298	12
		0.236	6.00	21.70	14.583	12
		0.315	8.00	27.70	18.616	9
		0.354	9.00	30.60	20.565	9
		0.394	10.00	33.40	22.446	9
		0.472	12.00	37.70	25.336	9
5 12/13 x 5 12/13	140 x 140	0.157	4.00	16.80	11.290	12
		0.197	5.00	20.70	13.911	9
		0.236	6.00	24.5	16.465	9
		0.315	8.00	31.40	21.102	6
		0.394	10.00	38.10	25.605	6
		0.472	12.00	43.40	29.167	4
6 x 6	150 x 150	0.157	4.00	18.00	12.097	12
		0.197	5.00	22.30	14.987	9
		0.236	6.00	26.40	17.742	9
		0.315	8.00	33.90	22.782	6
		0.354	9.00	37.66	25.309	6
		0.394	10.00	41.30	27.755	6
		0.472	12.00	47.10	31.653	4

Size (Inch)	NB (mm)	Thickness (Inch)	Thickness (mm)	Kg/mtr	lb/ft	Pcs/Bundle
6 3/10 x 6 3/10	160 x 160	0.157	4.00	19.30	12.970	12
		0.197	5.00	23.80	15.995	9
		0.236	6.00	28.30	19.019	9
		0.315	8.00	36.50	24.530	6
		0.394	10.00	44.40	29.839	6
		0.472	12.00	50.90	34.207	4
7 3/32 x 7 3/32	180 x 180	0.157	4.00	21.80	14.651	12
		0.197	5.00	27.00	18.145	9
		0.236	6.00	32.10	21.573	9
		0.315	8.00	41.50	27.890	6
		0.394	10.00	50.70	34.073	6
		0.472	12.00	58.50	39.315	4
8 x 8	200 x 200	0.157	4.00	24.30	16.331	6
		0.197	5.00	30.10	20.228	6
		0.236	6.00	35.80	24.059	4
		0.315	8.00	46.50	31.250	4
		0.394	10.00	57.00	38.306	4
		0.472	12.00	66.00	44.355	2
10 x 10	250 x 250	0.157	4.00	30.57	20.544	4
		0.197	5.00	38.00	25.538	4
		0.236	6.00	45.20	30.376	4
		0.315	8.00	59.10	39.718	4
		0.394	10.00	72.70	48.858	2
		0.472	12.00	84.80	56.989	2

CATEGORY/TYPE OF PRODUCTS:	M.S. Pipe(Lightly oiled & Bare), Hot DIP Galvanized & Pre-Galva-nized
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We also offer Pre-Galvanized as per Z275 (Galvanized coating 275gm/m2) from size 40X40 to 100X100mm, wall thickness from 1.6mm to 4.0mm

HRC USED	: For Gr.A : S235JR/ST.37-2, For Gr.B: S275/ST-44-2 & For Gr.C: S355/ST.52-3 and relevant coils
WORKMANSHIP	: Free from overlap, Lamination, tool/roll marks, pin holes, open seam & other harmful defect.
RELEVANT CERTIFICATION	: CE, FPC, ACRS & UKCA
APPLICATION /USED	: Fencing with top coats, space frames and structural.
SPECIAL SIZES	: Black powder coated pre-galvanized tubes.
MILL TEST CERTIFICATE	: MTC as per EN 10204 Type: 3.1

EN 10219-1&2 RECTANGULAR HOLLOW SECTIONS

TECHNICAL DATA SHEET

Nominal Sizes		Wall Thickness		Mass per unit length		Pcs/Bundle
Inch	NB (mm)	Inch	mm	Kg/Mtr	lb/ft	
1 3/5 X 3/4	40 X 20	0.047	1.2	1.06	0.710	100
		0.059	1.5	1.30	0.871	100
		0.071	1.8	1.53	1.027	100
		0.079	2.0	1.68	1.129	100
		0.098	2.5	2.03	1.364	64
		0.118	3.0	2.36	1.586	64
2 X 1	50 x 25	0.059	1.5	1.65	1.109	100
		0.071	1.8	1.95	1.312	100
		0.079	2.0	2.15	1.444	100
		0.098	2.5	2.62	1.761	64
		0.118	3.0	3.07	2.062	64
		0.157	4.0	3.88	2.610	49
2 x1 1/5	50 x 30	0.059	1.5	1.77	1.188	100
		0.071	1.8	2.09	1.407	100
		0.079	2.0	2.31	1.552	100
		0.098	2.5	2.82	1.895	64
		0.118	3.0	3.30	2.218	64
		0.157	4.0	4.20	2.823	49
2 1/3 x 1 1/5	60 x 30	0.059	1.5	2.00	1.346	100
		0.071	1.8	2.38	1.597	100
		0.079	2.0	2.62	1.760	100
		0.098	2.5	3.21	2.157	100
		0.118	3.0	3.77	2.536	64
		0.157	4.0	4.83	3.243	64
2 1/3 x 1 3/5	60 x 40	0.059	1.5	2.24	1.504	81
		0.071	1.8	2.66	1.786	64
		0.079	2.0	2.93	1.969	64
		0.098	2.5	3.60	2.419	49
		0.118	3.0	4.25	2.856	49
		0.157	4.0	5.45	3.663	49
		0.197	5.0	6.56	4.409	36
		0.236	6.0	7.56	5.081	25
2 3/4 x 1 1/5	70 x 30	0.059	1.5	2.24	1.505	64
		0.079	2.0	2.93	1.969	49
		0.098	2.5	3.60	2.419	49
		0.118	3.0	4.25	2.856	36
		0.157	4.0	5.45	3.663	36
		0.197	5.0	6.56	4.409	25
		0.236	6.0	7.56	5.081	25
		0.236	6.0	7.56	5.081	25
2 3/4 x 1 3/5	70/40	0.059	1.5	2.47	1.660	49
		0.079	2.0	3.25	2.184	49
		0.098	2.5	3.99	2.681	36
		0.098	2.5	3.99	2.681	36

Size (Inch)	NB (mm)	Thickness) (Inch	Thickness (mm)	Kg/Mtr	lb/ft	Pcs/Bundle
		0.098	2.5	3.99	2.681	36
		0.118	3.0	4.72	3.172	36
		0.157	4.0	6.08	4.086	25
		0.197	5.0	7.34	4.933	25
		0.236	6.0	8.50	5.712	25
3 x 2	75 x 50	0.059	1.5	2.83	1.900	49
		0.071	1.8	3.37	2.261	49
		0.079	2.0	3.72	2.499	49
		0.098	2.5	4.58	3.080	36
		0.118	3.0	5.42	3.644	36
		0.157	4.0	7.02	4.720	25
		0.197	5.0	8.52	5.726	25
3 1/7 x 3/4	80 x 20	0.236	6.0	9.92	6.667	25
		0.059	1.5	2.24	1.505	64
		0.079	2.0	2.93	1.969	49
		0.098	2.5	3.60	2.419	49
		0.118	3.0	4.25	2.856	36
		0.157	4.0	5.45	3.663	36
		0.197	5.0	6.56	4.409	25
31/7 x 13/5	80 x40	0.236	6.0	7.56	5.081	25
		0.059	1.5	2.71	1.821	49
		0.071	1.8	3.22	2.166	49
		0.079	2.0	3.56	2.392	49
		0.098	2.5	4.39	2.950	36
		0.118	3.0	5.19	3.488	36
		0.157	4.0	6.71	4.509	25
3 1/7 x 2 1/3	80 x 60	0.197	5.0	8.13	5.464	25
		0.236	6.0	9.45	6.351	20
		0.059	1.5	3.18	2.137	36
		0.079	2.0	4.19	2.816	36
		0.098	2.5	5.17	3.474	36
		0.118	3.0	6.13	4.120	36
		0.157	4.0	7.97	5.356	25
3 1/2 x 2	90 x 50	0.197	5.0	9.70	6.519	25
		0.236	6.0	11.33	7.614	25
		0.059	1.5	3.18	2.137	36
		0.079	2.0	4.19	2.816	36
		0.098	2.5	5.17	3.474	36
		0.118	3.0	6.13	4.120	36
		0.157	4.0	7.97	5.356	25
3 1/2 x 2 1/3	90 x 60	0.197	5.0	9.70	6.519	25
		0.236	6.0	11.33	7.614	25
		0.079	2.0	4.50	3.024	36
		0.098	2.5	5.56	3.737	36
		0.118	3.0	6.60	4.435	36
		0.157	4.0	8.59	5.773	25
		0.197	5.0	10.48	7.043	20
4 x 1 3/5	100 x 40	0.236	6.0	12.27	8.246	20
		0.079	2.0	4.19	2.816	36
		0.098	2.5	5.17	3.474	36
		0.118	3.0	6.13	4.120	36

Size (Inch)	NB (mm)	Thickness (Inch)	Thickness (mm)	Kg/mtr	lb/ft	Pcs/Bundle
4 x 1 3/5	100 x 40	0.157	4.0	7.97	5.356	25
		0.197	5.0	9.70	6.519	25
		0.236	6.0	11.33	7.614	25
4 X 2	100 x 50	0.059	1.5	3.42	2.298	36
		0.079	2.0	4.50	3.026	36
		0.098	2.5	5.56	3.737	30
		0.118	3.0	6.60	4.435	25
		0.157	4.0	8.59	5.773	25
		0.177	4.5	9.55	6.419	20
		0.197	5.0	10.50	7.056	20
		0.236	6.0	12.30	8.266	20
4 x 21/3	100 x 60	0.079	2.0	4.82	3.239	49
		0.098	2.5	5.96	4.005	36
		0.118	3.0	7.07	4.751	36
		0.157	4.0	9.22	6.196	25
		0.177	4.5	10.26	6.895	20
		0.197	5.0	11.30	7.594	20
		0.236	6.0	13.2	8.871	20
4 x 3 1/7	100 x 80	0.315	8.0	16.4	11.022	20
		0.079	2.0	5.49	3.690	36
		0.098	2.5	6.74	4.530	36
		0.118	3.0	8.01	5.383	36
		0.157	4.0	10.43	7.009	25
		0.197	5.0	12.84	8.629	20
		0.236	6.0	15.10	10.148	16
4 11/16 x 1 3/5	120 x 40	0.079	2.0	4.82	3.239	36
		0.098	2.5	5.96	4.005	36
		0.118	3.0	7.07	4.751	36
		0.157	4.0	9.22	6.196	25
		0.197	5.0	11.27	7.574	25
		0.236	6.0	13.21	8.878	20
411/16 x 21/3	120 x 60	0.079	2.0	4.82	3.239	36
		0.098	2.5	5.96	4.005	36
		0.118	3.0	7.07	4.751	36
		0.157	4.0	9.22	6.196	25
		0.197	5.0	11.27	7.574	25
		0.236	6.0	13.21	8.878	20
		0.315	8.0	16.4	11.022	20
4 11/16 x 3 1/7	120 x 80	0.079	2.0	6.07	4.079	20
		0.098	2.5	7.53	5.060	20
		0.118	3.0	8.96	6.022	20
		0.157	4.0	11.70	7.863	16
		0.197	5.0	14.40	9.677	16
		0.236	6.0	17.00	11.425	12
		0.276	7.0	19.12	12.849	12
		0.315	8.0	21.40	14.382	9
		0.354	9.0	23.53	15.813	9
		0.394	10.0	25.60	17.204	9
		0.472	12.0	28.31	19.026	9
		0.079	2.0	6.70	4.503	20
4 11/16 x 4	120 x 100	0.098	2.5	8.31	5.585	20

Size (Inch)	NB (mm)	Thickness (Inch)	Thickness (mm)	Kg/mtr	lb/ft	Pcs/Bundle
		0.118	3.0	9.90	6.653	16
		0.157	4.0	12.99	8.730	16
		0.197	5.0	15.98	10.739	12
		0.236	6.0	15.87	10.665	12
5 x 3	125 x 75	0.098	2.5	7.53	5.058	30
		0.118	3.0	8.96	6.022	24
		0.157	4.0	11.70	7.863	20
		0.177	4.5	13.08	8.793	16
		0.197	5.0	14.40	9.677	16
		0.217	5.5	15.71	10.556	16
		0.236	6.0	17.00	11.425	10
		0.315	8.0	21.40	14.382	10
		0.079	2.0	6.07	4.079	20
5 1/2 x 2 1/3	140 x 60	0.098	2.5	7.53	5.060	20
		0.118	3.0	8.96	6.022	20
		0.157	4.0	11.73	7.883	20
		0.197	5.0	14.41	9.684	12
		0.236	6.0	16.98	11.411	12
		0.079	2.0	6.70	4.503	20
5 1/2 x 3 1/7	140 x 80	0.098	2.5	8.31	5.585	20
		0.118	3.0	9.90	6.653	16
		0.157	4.0	12.99	8.730	12
		0.197	5.0	15.98	10.739	12
		0.236	6.0	18.87	12.681	12
		0.079	2.0	6.07	4.079	20
6 x 2	150 x 50	0.098	2.5	7.53	5.060	20
		0.118	3.0	8.96	6.022	20
		0.157	4.0	11.73	7.883	20
		0.197	5.0	14.41	9.684	16
		0.236	6.0	16.98	11.411	12
		0.079	2.0	6.70	4.503	20
6 x 2 3/4	150 x 70	0.098	2.5	8.31	5.585	20
		0.118	3.0	9.90	6.653	20
		0.157	4.0	12.99	8.730	16
		0.197	5.0	15.98	10.739	12
		0.236	6.0	18.87	12.681	12
		0.079	2.0	6.86	4.610	20
6 x 3	150 x 75	0.098	2.5	8.51	5.718	20
		0.118	3.0	10.13	6.808	16
		0.157	4.0	13.30	8.941	16
		0.177	4.5	14.85	9.981	16
		0.197	5.0	16.37	11.003	12
		0.217	5.5	17.87	12.007	12
		0.236	6.0	19.34	12.997	12
		0.315	8.0	24.53	16.485	12
		0.354	9.0	27.07	18.192	12
		0.079	2.0	7.00	4.675	20
6 x 4	150 x 100	0.118	3.0	11.31	7.601	20
		0.157	4.0	14.90	10.013	16
		0.197	5.0	18.30	12.298	16
		0.236	6.0	21.70	14.583	12
		0.315	8.0	27.70	18.616	9

Size (Inch)	NB (mm)	Thickness (Inch)	Thickness (mm)	Kg/mtr	lb/ft	Pcs/Bundle
6 x 4	150 x 100	0.354	9.0	30.60	20.565	9
		0.394	10.0	33.40	22.446	12
		0.472	12.0	37.70	25.336	12
6 3/10 x 3 1/7	160 x 80	0.118	3.00	10.80	7.258	20
		0.157	4.00	14.20	9.543	16
		0.197	5.00	17.50	11.761	16
		0.236	6.00	20.70	13.911	12
		0.315	8.00	26.40	17.742	9
		0.354	9.00	29.20	19.624	9
7 1/11 x 2 1/3	180 x 60	0.079	2.0	7.33	4.926	20
		0.098	2.5	9.10	6.116	20
		0.118	3.0	10.84	7.285	16
		0.157	4.0	14.25	9.577	16
		0.197	5.0	17.55	11.794	12
		0.236	6.0	20.75	13.945	12
8 x 4	200 x 100	0.157	4.0	18.00	12.097	12
		0.197	5.0	22.30	14.987	9
		0.236	6.0	26.40	17.742	9
		0.315	8.0	33.90	22.782	6
		0.394	10.0	41.30	27.755	6
		0.472	12.0	47.10	31.653	4
8 x 6	200 x 150	0.157	4.0	21.20	14.247	9
		0.197	5.0	26.20	17.608	9
		0.236	6.0	31.10	20.901	6
		0.315	8.0	40.23	27.036	6
		0.394	10.0	49.10	32.997	4
		0.472	12.0	56.60	38.038	4
10 x 4	250 x 100	0.157	4.0	21.20	14.247	6
		0.197	5.0	26.20	17.608	6
		0.236	6.0	31.11	20.907	4
		0.315	8.0	40.23	27.036	4
		0.394	10.0	49.10	32.997	4
		0.472	12.0	56.60	38.038	2
10 x 6	250 x 150	0.157	4.0	24.29	16.324	6
		0.197	5.0	30.10	20.228	6
		0.236	6.0	35.80	24.059	4
		0.315	8.0	46.50	31.250	4
		0.394	10.0	57.00	38.306	4
		0.472	12.0	66.00	44.355	2
12 x 4	300 x 100	0.157	4.00	24.30	16.331	4
		0.197	5.00	30.10	20.228	4
		0.236	6.00	35.80	24.059	4
		0.315	8.00	46.50	31.250	2
		0.394	10.00	57.00	38.306	2
		0.472	12.00	66.00	44.355	2
12 x 6	300 x 150	0.157	4.0	27.43	18.434	4
		0.197	5.0	34.03	22.870	4
		0.236	6.0	40.50	27.218	4
		0.315	8.0	52.80	35.484	2
		0.394	10.0	64.80	43.548	2
		0.472	12.0	75.40	50.672	2

Size (Inch)	NB (mm)	Thickness (Inch)	Thickness (mm)	Kg/mtr	lb/ft	Pcs/Bundle
12 x 8	300 x 200	0.157	4.0	30.60	20.565	4
		0.197	5.0	38.00	25.538	4
		0.236	6.0	45.20	30.376	4
		0.315	8.0	59.10	39.718	2
		0.394	10.0	72.70	48.858	2
		0.472	12.0	84.80	56.989	2

CATEGORY/TYPE OF PRODUCTS:	M.S. Pipe (Lightly oiled & Bare), Hot DIP Galvanized & Pre-Galvanized
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We also offer Pre-Galvanized as per Z275 (Galvanized coating 275gm/m2) from size 50X30 to 125X75mm, wall thickness from 1.6mm to 4.0mm.

HRC USED	: For Gr.A : S235JR/ST.37-2, For Gr.B: S275/ST-44-2 & For Gr.C: S355/ST.52-3 and relevant coils
WORKMANSHIP	: Free from overlap, Lamination, tool/roll marks, pin holes, open seam & other harmful defect.
RELEVANT CERTIFICATION	: CE, FPC, ACRS & UKCA
APPLICATION /USED	: Fencing with top coats, space frames and structural.
SPECIAL SIZES	: Black powder coated pre-galvanized tubes.
MILL TEST CERTIFICATE	: MTC as per EN 10204 Type: 3.1

EN 10219-1&2 SQUARE AND RECTANGULAR HOLLOW SECTIONS

TOLERANCES FOR SHAPE AND MASS:

EXTERNAL DIMENSIONS (B & H)	Side Length (mm)	Tolerance
	H, B < 100	± 1% with a min. ± 0.5mm
	100 ≤ H, B ≤ 200	± 0.8%
	H,B > 200	± 0.6%
THICKNESS (T)	T ≤ 5.0mm ± 10% T > 5.0mm ± 0.5mm	
CONCAVITY/CONVEXITY	Max. 0.8 % with a minimum of 0.5mm	
SQUARENESS OF SIDES	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	
STRAIGHTNESS	0.15% of total length and 3.0 mm over any 1m length	
MASS (m) PER UNIT LENGTH	± 6% on individual delivered length	

MECHANICAL PROPERTIES:

GRADE	Min. Yield Strength R _{eh} (Mpa)	Tensile Strength Rm (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	-	-	27
S275J0H	275	430-580	410-560	20	-	27	-
S275J2H	275	430-580	410-560	20	27	-	-
S355J0H	355	510-680	470-630	20	-	27	-
S355J2H	355	510-680	470-630	20	27	-	-

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

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

ASTM A500 SQUARE HOLLOW SECTIONS

TECHNICAL DATA SHEET

Sizes (Inch)	Thickness (Inch)	Weight (lb/ft)	Pcs/Bundle
¾" X ¾"	0.065	0.605	150
	0.072	0.663	150
	0.080	0.748	150
	0.083	0.752	150
	0.090	0.832	150
	0.095	0.873	150
	0.109	0.986	100
	0.120	1.071	100
1" X 1"	0.065	0.826	100
	0.072	0.908	100
	0.080	1.020	100
	0.083	1.040	100
	0.090	1.138	80
	0.095	1.169	80
	0.109	1.321	80
	0.120	1.435	64
1 ½" X 1 ½"	0.134	1.583	64
	0.065	1.269	80
	0.072	1.434	80
	0.080	1.565	80
	0.083	1.599	80
	0.090	1.751	64
	0.095	1.815	64
	0.109	2.062	64
2" X 2"	0.120	2.252	49
	0.134	2.332	49
	0.148	2.533	49
	0.188	3.040	49
	0.065	1.710	49
	0.072	1.890	49
	0.080	2.109	49
	0.083	2.160	49
	0.090	2.363	49
	0.095	2.460	49
	0.109	2.800	36
	0.120	3.070	36
	0.134	3.240	36
	0.148	3.541	36
	0.188	4.320	25
	0.203	4.603	25
2 ½" X 2 ½"	0.250	5.410	25
	0.065	2.120	49
	0.072	2.332	49

2 ½" X 2 ½"	0.080	2.653	49
	0.083	2.668	49
	0.090	2.975	36
	0.095	3.031	36
	0.109	3.440	36
	0.120	3.900	36
	0.134	4.159	25
	0.148	4.540	25
3" X 3"	0.188	5.590	25
	0.203	5.980	20
	0.250	7.110	20
	0.083	3.240	36
	0.090	3.588	36
	0.095	3.670	36
	0.109	4.180	36
	0.120	4.750	36
3 ½" X 3 ½"	0.134	5.073	25
	0.148	5.550	25
	0.188	6.870	25
	0.203	7.360	20
	0.250	8.810	20
	0.083	3.803	36
	0.090	4.200	36
	0.095	4.320	36
4" X 4"	0.109	4.920	36
	0.120	5.600	36
	0.134	5.981	25
	0.148	6.550	25
	0.188	8.150	20
	0.203	8.740	20
	0.250	10.510	16
	0.313	13.862	12
	0.083	4.360	25
	0.090	4.813	25
	0.095	4.973	25
	0.109	5.660	20
	0.120	6.460	20
	0.134	6.890	20
	0.148	7.560	20
	0.188	9.420	16
	0.203	10.120	16
	0.250	12.210	12
	0.313	14.830	9
	0.375	17.270	9
	0.500	21.600	9

Sizes (Inch)	Thickness (Inch)	Weight (lb/ft)	Pcs/Bundle
5" X 5"	0.109	7.290	16
	0.120	8.012	16
	0.134	8.926	16
	0.148	9.837	12
	0.188	11.970	12
	0.203	12.880	12
	0.250	15.620	12
	0.313	19.080	9
6" X 6"	0.375	22.370	9
	0.500	28.400	9
	0.188	14.530	9
	0.203	15.640	9
	0.250	19.020	9

8" X 8"	0.313	23.340	6
	0.375	27.480	6
	0.500	35.200	4
	0.188	19.630	6
	0.203	21.160	6
	0.250	25.820	4
	0.313	31.840	4
	0.375	37.690	4
10" X 10"	0.500	48.900	2
	0.188	24.770	4
	0.203	26.680	4
	0.250	32.600	4
	0.313	40.370	4
	0.375	47.850	2
	0.500	62.400	2

CATEGORY/TYPE OF PRODUCTS:	M.S. Pipe (Lightly oiled & Bare), Hot Dip Galvanized & Pre-Galvanized & Black Powder Coated
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TOLERANCES:

Permissible variations in outside flat dimensions as below:
2 1/2" (65mm) or under = ± 0.50mm (0.020 Inch)
Greater than 2 1/2" to 3 1/2" = ± 0.60mm (0.025 Inch)
Greater than 3 1/2" to 5 1/2" = ± 0.80mm (0.030 Inch)
Greater than 5 1/2" = 0.01 times of large flat dimension
Minimum wall thickness - 10% of specified (Applicable to the centers of the flats)

PROPERTIES:

- a) Chemical = (Max.) C-0.30%, Mn-1.40%, S-0.045%, P-0.045%, Cu-0.18% min., (For A,B & D type)
C - 0.27%, Mn - 1.40%, S - 0.045%, P - 0.045%, Cu - 0.18% min., (For C Type)
- b) Mechanical = (Min.)
For Grade B = UTS - 400 Mpa (58000 PSI), YS - 315 Mpa (46000 PSI) & Elongation - 23%
For Grade C = UTS - 425 Mpa (62000 PSI), YS - 345 Mpa (50000 PSI) & Elongation - 21%
For Grade D = UTS - 400 Mpa (58000 PSI), YS - 250 Mpa (36000 PSI) & Elongation - 23%
Color marked sizes can also be manufactured in Pre-Galvanized with zinc coating Z275 (275gm/m²)

HRC USED	: For Gr.A : S235JR/ST.37-2, For Gr.B: S275/ST-44-2 & For Gr.C: S355/ST.52-3 and relevant coils
WORKMANSHIP	: Free from overlap, Lamination, tool/roll marks, pin holes, open seam & other harmful defect.
RELEVANT CERTIFICATION	: NIL
RADIUS OF CORNER	: 3 times the nominal wall thickness (Maximum)
STRAIGHTNESS	: 1/8" times the total length in feet, divided by 5
APPLICATION /USED	: Fencing with top coats and structural.
SPECIAL SIZES	: Black powder coated pre-galvanized tubes
MILL TEST CERTIFICATE	: MTC as per EN 10204 Type: 3.1

ASTM A500 RECTANGULAR HOLLOW SECTIONS

TECHNICAL DATA SHEET

Sizes (Inch)	Thickness (Inch)	Weight (lb/ft)	Pcs/Bundle
1 1/2" X 3/4"	0.065	0.936	100
	0.072	1.057	100
	0.080	1.156	100
	0.083	1.176	100
	0.090	1.291	64
	0.095	1.331	64
	0.109	1.506	64
	0.120	1.640	64
2" X 1"	0.065	1.269	100
	0.072	1.434	100
	0.080	1.565	100
	0.083	1.599	100
	0.090	1.751	64
	0.095	1.815	64
	0.109	2.062	64
	0.120	2.250	64
	0.134	2.489	49
	0.148	3.057	49
2" X 1 1/4"	0.065	1.379	100
	0.072	1.537	100
	0.080	1.701	100
	0.083	1.740	100
	0.090	1.904	64
	0.095	1.976	64
	0.109	2.247	64
	0.120	2.460	64
	0.134	2.771	49
	0.148	3.039	49
2 1/2" X 1 1/2"	0.065	1.711	81
	0.072	1.937	64
	0.080	2.109	64
	0.083	2.164	64
	0.090	2.363	49
	0.095	2.461	49
	0.109	2.803	49
	0.120	3.050	49
	0.134	3.401	49
	0.148	3.727	49
3" X 2"	0.080	2.653	49
	0.083	2.728	49
	0.090	2.975	36
	0.095	3.107	36
	0.109	3.544	36

	0.120	3.900	36
	0.134	4.312	25
	0.148	4.734	25
	0.188	5.600	25
	0.203	6.466	25
4" X 2"	0.080	3.198	36
	0.083	3.293	36
	0.090	3.588	30
	0.095	3.753	30
	0.109	4.323	30
	0.120	4.750	25
	0.134	5.223	25
	0.148	5.740	25
	0.188	6.870	20
	0.203	7.847	20
5" X 3"	0.109	5.807	30
	0.120	6.460	24
	0.134	7.103	20
	0.148	7.560	20
	0.188	9.420	16
	0.203	10.120	16
	0.250	12.200	10
	0.313	14.830	10
6" X 3"	0.109	6.548	16
	0.120	7.195	16
	0.134	8.014	16
	0.148	8.830	16
	0.188	10.700	16
	0.203	11.500	12
	0.250	13.900	12
	0.313	16.960	12
6" X 4"	0.120	8.012	20
	0.134	8.926	16
	0.148	9.837	16
	0.188	11.970	16
	0.203	12.880	12
	0.250	15.600	12
	0.313	19.080	9
	0.375	22.370	9
8" X 4"	0.188	14.530	12
	0.203	15.640	9
	0.250	19.000	9
	0.313	23.340	6
	0.375	27.480	6
	0.500	38.155	4

Sizes (Inch)	Thickness (Inch)	Weight (lb/ft)	Pcs/Bundle
8" X 6"	0.188	17.080	9
	0.203	18.400	9
	0.250	22.400	6
	0.313	27.590	6
	0.375	32.580	4
	0.500	42.100	4
10" X 6"	0.188	19.630	6
	0.203	21.160	6
	0.250	25.800	4
	0.313	31.840	4
	0.375	37.690	4
	0.500	48.900	2
12" X 4"	0.188	19.630	4
	0.203	21.160	4

	0.250	25.800	4
	0.313	31.840	2
	0.375	37.690	2
	0.500	48.900	2
12" X 6"	0.188	22.220	4
	0.203	23.920	4
	0.250	29.200	4
	0.313	36.120	2
	0.375	42.750	2
	0.500	55.600	2
12" X 8"	0.188	24.770	4
	0.203	26.680	4
	0.250	32.600	4
	0.313	40.370	2
	0.375	47.850	2
	0.500	62.400	2

CATEGORY/TYPE OF PRODUCTS:	M.S. Pipe (Lightly oiled & Bare), Hot Dip Galvanized & Pre-Galvanized & Black Powder Coated
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TOLERANCES:

Permissible variations in outside flat dimensions as below:
2 1/2" (65mm) or under = ± 0.50mm (0.020 Inch)
Greater than 2 1/2" to 3 1/2" = ± 0.60mm (0.025 Inch)
Greater than 3 1/2" to 5 1/2" = ± 0.80mm (0.030 Inch)
Greater than 5 1/2" = 0.01 times of large flat dimension
Minimum wall thickness - 10% of specified (Applicable to the centers of the flats)

PROPERTIES:

- a) Chemical = (Max.) C-0.30%, Mn-1.40%, S-0.045%, P-0.045%, Cu-0.18% min., (For A,B & D type)
C - 0.27%, Mn - 1.40%, S - 0.045%, P - 0.045%, Cu - 0.18% min., (For C Type)
- b) Mechanical = (Min.)
For Grade B = UTS - 400 Mpa (58000 PSI), YS - 315 Mpa (46000 PSI) & Elongation - 23%
For Grade C = UTS - 425 Mpa (62000 PSI), YS - 345 Mpa (50000 PSI) & Elongation - 21%
For Grade D = UTS - 400 Mpa (58000 PSI), YS - 250 Mpa (36000 PSI) & Elongation - 23%
Color marked sizes can also be manufactured in Pre-Galvanized with zinc coating Z275 (275gm/m²)

HRC USED	: For Gr.A : S235JR/ST.37-2, For Gr.B: S275/ST-44-2 & For Gr.C: S355/ST.52-3 and relevant coils
WORKMANSHIP	: Free from overlap, Lamination, tool/roll marks, pin holes, open seam & other harmful defect.
RELEVANT CERTIFICATION	: NIL
RADIUS OF CORNER	: 3 times the nominal wall thickness (Maximum)
STRAIGHTNESS	: 1/8" times the total length in feet, divided by 5
APPLICATION /USED	: Fencing with top coats and structural.
SPECIAL SIZES	: Black powder coated pre-galvanized tubes
MILL TEST CERTIFICATE	: MTC as per EN 10204 Type: 3.1

AS/NZS 1163 SQUARE HOLLOW SECTIONS

TECHNICAL DATA SHEET

Nominal Sizes		Wall Thickness (T)		Mass per unit length		Pcs/Bundle
Inch	NB (mm)	Inch	mm	Kg/mtr	lb/Ft	
3/4X 3/4	20 X 20	0.063	1.6	0.873	0.587	150
1 x 1	25 x 25	0.063	1.6	1.12	0.753	150
		0.079	2.0	1.36	0.914	100
		0.098	2.5	1.64	1.102	80
		0.118	3.0	1.89	1.270	64
1 1/5 x 1 1/5	30 x 30	0.063	1.6	1.38	0.927	100
		0.079	2.0	1.68	1.129	100
1 3/8 x 1 3/8	35 x 35	0.063	1.6	1.63	1.095	100
		0.079	2.0	1.99	1.337	80
		0.098	2.5	2.42	1.626	64
		0.118	3.0	2.83	1.902	49
1 3/5 x 1 3/5	40 x 40	0.063	1.60	1.88	1.263	100
		0.079	2.0	2.31	1.552	80
		0.098	2.5	2.82	1.895	64
		0.157	4.0	4.09	2.749	49
2 x 2	50 x 50	0.063	1.6	2.38	1.599	64
		0.079	2.0	2.93	1.969	49
		0.098	2.5	3.60	2.419	49
		0.118	3.0	4.25	2.856	36
		0.157	4.0	5.35	3.595	36
2 9/16 x 2 9/16	65 X 65	0.079	2.0	3.88	2.608	49
		0.098	2.5	4.78	3.212	36
		0.118	3.0	5.66	3.804	36
3 x 3	75 X 75	0.098	2.5	5.56	3.737	36
		0.118	3.0	6.60	4.435	36
		0.138	3.5	7.53	5.060	36
		0.157	4.0	8.49	5.706	25
		0.197	5.0	10.30	6.922	20
		0.236	6.0	12.00	8.065	20
3 1/2 x 3 1/2	89 x 89	0.14	3.5	9.06	6.089	25
		0.20	5.0	12.50	8.401	20
		0.24	6.0	14.60	9.812	16
4 x 4	100 x 100	0.118	3.0	8.96	6.022	20
		0.157	4.0	11.60	7.796	20
		0.197	5.0	14.2	9.543	16
		0.236	6.0	16.7	11.223	12
		0.354	9.0	23.5	15.793	9
5 x 5	125 x 125	0.157	4.0	14.8	9.95	16
		0.197	5.0	18.2	12.23	12
		0.236	6.0	21.4	14.38	12
		0.354	9.0	30.6	20.56	9

Nominal Sizes		Wall Thickness (T)		Mass per unit length		Pcs/Bundle
Inch	NB (mm)	Inch	mm	Kg/mtr	lb/Ft	
6 X 6	150 x 150	0.197	5.0	22.1	14.85	9
		0.236	6.0	26.2	17.61	9
		0.354	9.0	37.70	25.34	6
8 X 8	200 X 200	0.197	5.0	29.90	20.09	6
		0.236	6.0	35.60	23.92	4
		0.354	9.0	51.80	34.81	4
10 X 10	250 X 250	0.236	6.0	45.0	30.24	4
		0.354	9.0	65.9	44.29	4

CATEGORY/TYPE OF PRODUCTS:	M.S. Pipe (Lightly Oiled & Bare), Blue Painted, Hot Dip Galvanized & Pre-Galvanized
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HRC USED	: For Gr.C250 : S235JR/ST.37-2, For Gr.C350: S355/ST.52-3, For Gr.C450: S450 and relevant coils
WORKMANSHIP	: Free from overlap, Lamination, tool/roll marks, pin holes, open seam & other harmful defect.
RELEVANT CERTIFICATION	: BSI (AS/NZS 1163), FPC & ACRS
APPLICATION /USED	: Fencing with Top coats, space frames and structural
SPECIAL SIZES	: Black powder coated pre-galvanized tubes
MILL TEST CERTIFICATE	: MTC as per EN 10204 Type: 3.1

AS/NZS 1163 RECTANGULAR HOLLOW SECTIONS

TECHNICAL DATA SHEET

Nominal Sizes		Wall Thickness (T)		Mass per unit length		Pcs/Bundle
Inch	NB (mm)	Inch	mm	Kg/mtr	lb/ft	
2 x 1	50 x 25	0.063	1.6	1.75	1.176	100
		0.079	2.0	2.15	1.445	100
		0.098	2.5	2.62	1.761	64
		0.118	3.0	3.07	2.063	64
3 x 1	75 x 25	0.063	1.6	2.38	1.599	64
		0.079	2.0	2.93	1.969	64
		0.098	2.5	3.60	2.419	49
3 x 2	75 x 50	0.079	2.0	3.72	2.500	49
		0.098	2.5	4.58	3.078	36
		0.118	3.0	5.42	3.642	36
		0.157	4.0	6.92	4.651	25
3 X 1 1/2	76 X 38	0.063	1.6	2.73	1.835	50
		0.079	2.0	3.37	2.265	56
		0.098	2.5	4.15	2.789	45
		0.118	3.0	4.90	3.293	40
		0.157	4.0	6.23	4.187	32
4 x 2	100 X 50	0.079	2.0	4.50	3.024	36
		0.098	2.5	5.56	3.737	30
		0.118	3.0	6.60	4.435	25
		0.138	3.5	7.53	5.060	25
		0.157	4.0	8.49	5.706	25
		0.197	5.0	10.30	6.922	20
		0.236	6.0	12.00	8.065	20
5 x 3	125 X75	0.118	3.0	8.96	6.022	24
		0.157	4.0	11.60	7.796	20
		0.197	5.0	14.2	9.543	16
6 x 2	150 X 50	0.079	2.0	6.07	4.08	21
		0.098	2.5	7.53	5.06	21
		0.118	3.0	8.96	6.02	21
		0.157	4.0	11.63	7.82	15
		0.197	5.0	14.24	9.57	15
		0.236	6.0	16.74	11.25	15
6 x 4	150 X 100	0.157	4.0	14.8	9.95	16
		0.197	5.0	18.2	12.23	12
		0.236	6.0	21.4	14.38	12
8 X 4	200 x 100	0.157	4.0	17.9	12.03	12
		0.197	5.0	22.1	14.85	9
		0.236	6.0	26.20	17.61	9
		0.354	9.0	37.70	25.34	6
10 X 6	250 X 150	0.197	5.0	29.90	20.09	6
		0.236	6.0	35.60	23.92	4
		0.354	9.0	51.8	34.81	4

CATEGORY/TYPE OF PRODUCTS:	M.S. Pipe (Lightly Oiled & Bare), Blue Painted, Hot DIP Galvanized & Pre-Galvanized
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HRC USED	: For Gr.C250 : S235JR/ST.37-2, For Gr.C350: S355/ST.52-3, For Gr.C450: S450 and relevant coils
WORKMANSHIP	: Free from overlap, Lamination, tool/roll marks, pin holes, open seam & other harmful defect.
RELEVANT CERTIFICATION	: BSI (AS/NZS 1163), FPC & ACRS
APPLICATION /USED	: Fencing with Top coats, space frames.
SPECIAL SIZES	: Black powder coated pre-galvanized tubes.
MILL TEST CERTIFICATE	: MTC as per EN 10204 Type: 3.1

AS/NZS 1163 SQUARE & RECTANGULAR HOLLOW SECTIONS

TOLERANCES FOR SHAPE AND MASS:

EXTERNAL DIMENSIONS	± 1%, with a minimum of ±0.5 mm
THICKNESS (T)	± 10%
CONCAVITY/CONVEXITY	Max. 0.8% or 0.5mm, Whichever is greater
SQUARENESS OF SIDES	90° ± 1°
EXTERNAL CORNER PROFILE	Perimeter (mm): Equivalent to 50X50 or less : 1.5 T to 3.0 T Equivalent to greater than 50X50 : 1.8 t to 3.0 T
TWIST	2.0+ 0.5 mm/m length
STRAIGHTNESS	0.15% of total length
MASS (m) PER UNIT LENGTH	Not less than 0.96 times the specified mass on individual Length

CHEMICAL COMPOSITION:

GRADE	Chemical composition (Max %)												
	C	Si	Mn	P	S	Cr	Mo	Al	Ni	Cu	Ti	Micro Alloys	CE
C 250, C250L0	0.12	0.05	0.50	0.03	0.03	0.15	0.10	0.10	0.25	0.25	0.04	0.03*	0.25
C 350, C350L0	0.20	0.45	1.60	0.03	0.03	0.30	0.10	0.10	0.25	0.25	0.04	0.15**	0.43
C 450, C450L0	0.20	0.45	1.70	0.03	0.03	0.50	0.35	0.10	0.25	0.25	0.04	0.15**	0.43
*Nb - 0.010 Max.													**V - 0.10 Max.

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

MECHANICAL PROPERTIES:

GRADE	Min. Yield Strength R _{eh} (Mpa)	Tensile Strength R _m (Mpa)	Elongation	Test Temp.	Min. Impact Energy(J)					
					Size of Test piece					
					10 X 10 mm		10 X 7.5 mm		10 X 5.0 mm	
					Avg. of 3 tests	Indi-vidual Test	Avg. of 3 tests	Indi-vidual Test	Avg. of 3 tests	Indi-vidual Test
C 250/ C250L0	250	320	18	0°C	27	20	22	16	18	13
C 350/ C350L0	350	430	16							
C 450/ C450L0	450	500	14							



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