UTP PIPE

AS/NZS 1163
RECTANGULAR HOLLOW SECTIONS

Nominal Sizes		Wall Thickness (t)		Mass per unit length		Pieces / bdls
Inch	NB (mm)	Inch	mm	Kg / Mtr	lb/Ft	
2 X 3/4	50 X 20	0.063	1.6	1.63	1.095	100
		0.079	2.0	1.99	1.337	100
		0.098	2.5	2.42	1.626	64
		0.118	3.0	2.83	1.902	64
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
2 9/16 X 1 3/8	65 X 35	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
3 X1	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 X 75	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

Color marked sizes can also be manufactured in Pre-Galvanized with zinc coating Z275 (275gm/m^2)

TOLERANCES FOR SHAPE AND MASS:

CHARACTERISTICS	RECTANGULAR HOLLOW SECTIONS
EXTERNAL DIMENSIONS (d and b)	± 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	MICROALLOYING ELEMENTS	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 (NOTE-1)	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 (NOTE-2)	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 (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_{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	
					Average of 3 tests	Individual Test	Average of 3 tests	Individual Test	Average of 3 tests	Individual 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							

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 standard & 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.