



Steel Redefined for Durability and Innovation

High-quality steel tubes with **guaranteed yield strength of 210 MPa**. Ideal for home-building applications



Production Process:



Manufacturing of Tata StructuraYst 210 begins with a Steel Hot Rolled Coil produced at Tata Steel using Blast Furnace technology. It's rolled into a cylinder, welded with advanced induction welding, creating a durable structural steel tube.

Advantages:



STRONG WELDING JOINTS

They ensure the long-lasting durability of structures made from this product.



UNIQUE STRAIGHTNESS

The tubes are perfectly straight, which results in a faster fabrication process and sturdy structures.



HIGH STRENGTH

These tubes are ideal for load-bearing applications.



ROUGH SURFACE

This property makes the hollow sections' surface easy to paint in your favourite colours.



TOLERANCE

The weight tolerance of these tubes is +/- 10%



BENDABILITY

These tubes are flexible; so, they can be used to form designs you prefer.



HIGH SAFETY

Tata Structura tubes, unlike the local ones, does not release hazardous black smoke, reducing the health risk.



HAZARD-FREE

The smooth finish of Tata Structura 210 tubes significantly reduces the risk of cuts and injuries during and after construction.



AFFORDABLE

Due to superior strength and optimized space usage, fewer tubes are required for a given project, resulting in a lower cost.



EXTENDED ROOF

Use for

- Grille
- Green House Shade
- Tractor Shade
- Crop Shade
- Gates
- Roof Shade
- Fence
- Handrail



PERGOLA



GRILLE



ROOF SHADE



FENCE

Weight of One Tube in kg/metre

SQUARE HOLLOW SECTION TUBE

Size Dimension (mm*mm)	Thickness mm														
	1.0	1.2	1.6	1.8	2.0	2.2	2.6	2.9	3.2	3.6	4.0	4.5	4.8	5.0	
20*20	0.58	0.68	0.87	0.96	1.05	1.13	1.28	1.39							
25*25	0.73	0.87	1.12	1.25	1.36	1.48	1.69	1.84	1.98						
32*32		1.13	1.48	1.64	1.80	1.96	2.26	2.48	2.69						
38*38		1.36	1.78	1.98	2.18	2.38	2.75	3.03	3.29		3.95				
40*40		1.43	1.88	2.09	2.31	2.51	2.92	3.21	3.49		4.20				
50*50		1.81	2.38	2.66	2.93	3.20	3.73	4.12	4.50	4.98	5.45				
60*60			2.88	3.22	3.56	3.90	4.55	5.03	5.50	6.11	6.71				
72*72			3.49	3.90	4.32	4.72	5.53	6.12	6.71	7.47	8.22				
80*80					4.82	5.28	6.18	6.85	7.51	8.37	9.22				
91.5*91.5							7.12	7.90	8.67	9.67	10.67				
100*100							7.82	8.67	9.52	10.64	11.73			14.41	
113.5*113.5							8.92	9.90	10.88	12.16	13.43		15.92		
132*132								12.74	14.25	15.75		18.71			

CIRCULAR HOLLOW SECTION TUBE

Size Dimension (mm*mm)	Thickness mm														
	1.0	1.2	1.6	1.8	2.0	2.2	2.6	2.9	3.2	3.6	4.0	4.5	4.8	5.0	
15 NB			0.78	0.87	0.95	1.04	1.20	1.32							
20 NB		0.76	1.00	1.11	1.23	1.34	1.56	1.72							
25 NB		0.96	1.27	1.42	1.56	1.71	1.99	2.20	2.41						
32 NB	1.02	1.22	1.61	1.80	1.99	2.18	2.55	2.82	3.09						
40 NB	1.17	1.39	1.84	2.06	2.28	2.50	2.93	3.25	3.56	3.97	4.37				
50 NB		1.75	2.32	2.60	2.88	3.15	3.70	4.11	4.51	5.03	5.55	6.19			
65 NB		2.22	2.94	3.30	3.65	4.01	4.71	5.24	5.75	6.44	7.11	7.95			
80 NB		2.60		3.87	4.29	4.70	5.53	6.15	6.76	7.57	8.38	9.37			
100 NB						6.08	7.16	7.97	8.77	9.83	10.88	12.19			

RECTANGULAR HOLLOW SECTION TUBE

Size Dimension (mm*mm)	Thickness mm														
	1.0	1.2	1.6	1.8	2.0	2.2	2.6	2.9	3.2	3.6	4.0	4.5	4.8	5.0	
40*10			1.25	1.36	1.48	1.48									
40*20		1.06	1.53	1.68	1.82	2.10									
50*25		1.34	1.75	1.95	2.15	2.34	2.71	2.98	3.24						
75*25		1.81	2.38	2.66	2.93	3.20	3.73	4.12							
66*33		1.79	2.35	2.63	2.90	3.17	3.69	4.07							
60*40		1.81	2.38	2.66	2.93	3.20	3.73	4.12	4.50	4.98	5.45	6.02			
80*40		2.19	2.88	3.22	3.56	3.90	4.55	5.03	5.50	6.11	6.71				
95*25			2.88	3.22	3.56	3.90	4.55	5.03	5.50	6.11	6.71	7.43	7.85		
96*48			3.49	3.90	4.32	4.72	5.53	6.12	6.71	7.47	8.22		9.66		
122*61							7.12	7.90	8.67	9.67	10.67	11.88			
145*82							8.92	9.90	10.88	12.16	13.43		15.92		
172*92									12.74	14.25	15.75	17.61	18.71		

LENGTH: 6 m, tolerance +/- 50 mm

END FINISH: Plain burr free end

SURFACE FINISH: Black surface finish without any treatment

IDENTIFICATION: Marking of 'Tata Structura' emblem on all the tubes along with BIS mark

SPECIFICATION: IS 3601 and IS 1161 for Circular tubes; IS 4923 for Square and Rectangular tubes

COLD STAMPING: The grade 210 appears below 'Tata Structura' logo

ISI STAMPING: ISI logo with licence number

DOT MATRIX PRINTING: Thickness and batch number are marked on the tube

PRODUCT PACKAGING: Tubes are bundled using metallic straps

