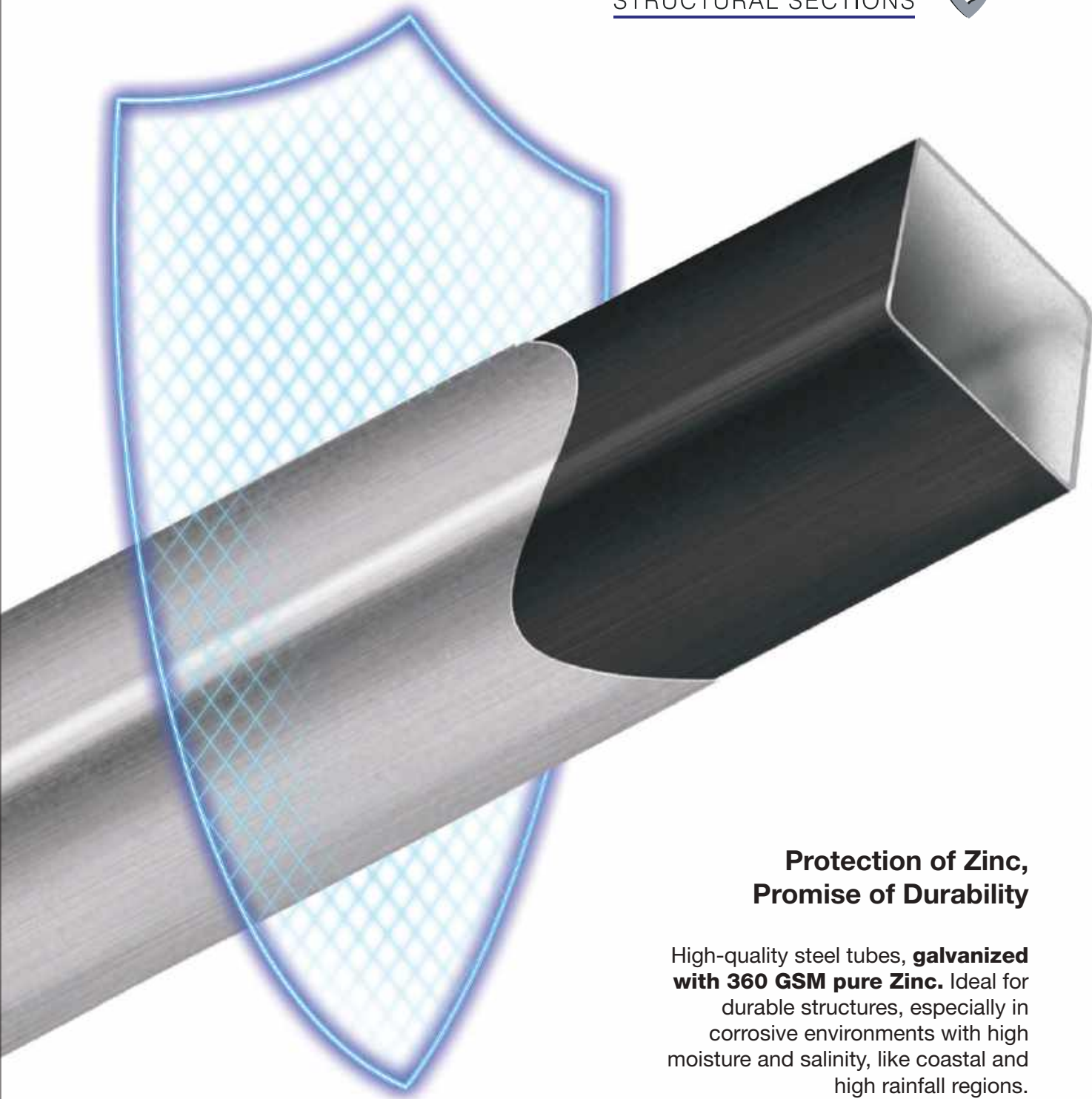




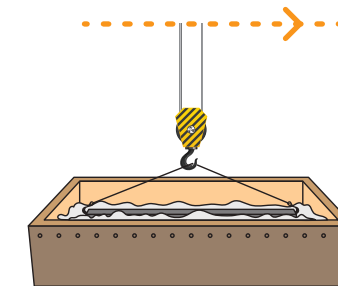
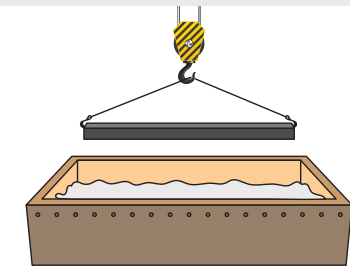
Protection of Zinc, Promise of Durability

High-quality steel tubes, **galvanized with 360 GSM pure Zinc**. Ideal for durable structures, especially in corrosive environments with high moisture and salinity, like coastal and high rainfall regions.

Production Process

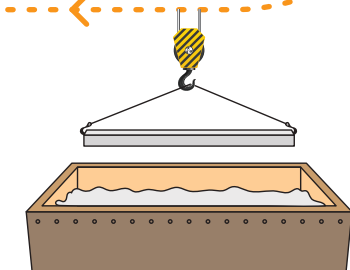
HOT DIP GALVANIZING

Surface-treated black tubes, hanging from a holder, are brought for **the galvanization process**



The tubes are immersed in the **Zinc bath**, ensuring a **360+ GSM pure zinc coating** on both the outside and inside surfaces of the steel tubes

Tata Structura Z+ tubes, **coated with pure Zinc**, emerge from the process with extra protection and a life span three times longer



Advantages:



SUPERIOR ANTI-CORROSIVE PROPERTY

With a 360 GSM pure Zinc coating on both surfaces, Tata Structura Z+ offers excellent corrosion protection and a lifespan three times longer than that of local alternatives.



TOUGH IN HARSH CLIMATE

Protected from corrosion by the Zinc coating, it is ideal for use in coastal and rainy areas.



GREAT WELDABILITY

Chemical composition of steel in Tata Structura Z+ is best suitable for welding.



STRENGTH

These tubes maintain a consistent yield strength of 210 MPa.



EASY TO BEND

They exhibit excellent ductility, enabling easy bending into attractive curves.



STANDARDIZED

These tubes are produced according to Indian standards – IS 4923 for square and rectangular tubes and IS 1161 for circular tubes.



ROOF SHED



GATES



HANDRAIL

- Use for
- Industrial Shed
 - Hand Rail
 - Roof Shed
 - Warehouse
 - Side Extension
 - Gate
 - Grille
 - Pergola
 - Parking Shelter
 - Fence



PERGOLA



SIDE EXTENSION



PERGOLA



CAR SHED

Product Parameters

WEIGHT IN (KG/LENGTH)
OF TATA STRUCTURA Z+ SQUARE TUBES

Size Dimension (mm*mm)	Thickness mm						
	1.6	1.8	2.0	2.6	3	4	
20×20	6.3	6.7	7				
25×25	7.8	8	9				
32×32	10	10.3	11.3				
40×40	11.9	13.2	14.5				
50×50	15.1	16.8	18.4				
60×60			22.4				
72×72			27.1				
80×80				38.4			
100×100				48.6			
150×150						110.7	

WEIGHT IN (KG/LENGTH) OF
TATA STRUCTURA Z+ RECTANGULAR TUBES

Size Dimension (mm*mm)	Thickness mm						
	1.6	1.8	2.0	2.6	3	3.2	
40×20	8.7	9.6	10.5				
50×25	11.1	12.3	13.5				
60×40	15.1	16.8	18.4				
75×25	15.1	16.8	18.4				
80×40	18.3	20.4	22.4	28.3			
95×25		20.4	22.4				
96×48	22.2	24.7	27.1	34.4			
122×61						53.5	
145×82					63.3		

LENGTH: 6.0 m +/- 0.05 m

STRAIGHTNESS: 30 mm (minimum 1/200 of 6m length) measured from the centre-line in the uncoated black tube, under mill-straightened condition.

TWIST TOLERANCE: Maximum 5mm allowable vertical shift (with a tolerance of 2mm ± 0.5mm/m) between adjacent sectional corners, measured with one side on a flat surface.

END FINISH: Plain-ended, mechanically sheared, mill-cut finish without further machining.

SURFACE FINISH: Hot-dip galvanized surface with a minimum coating thickness of 360 GSM of pure zinc.

RAW MATERIAL: Sulphur content: 0.05% max, phosphorus content: 0.05% max, with an equivalent carbon percentage well within specified weldability limits and matching physical properties.

WELDABILITY: Tata Structura Steel Hollow Sections can be welded using standard M.S. Electrodes without the need for pre-heating.

PACKING: Tata Structura Z+ tubes are bundled by a sealed metal strap. Each bundle (approximate weight: 1.5 Mt +/-500 kg) is labelled with specific size, measurement, lot number, etc. The tubes can also be sold individually over the retail counter.

IDENTIFICATION: The 'TATA STRUCTURA Z+' emblem is marked on all Steel Hollow Sections through punching, stencilling, or sticker pasting. The standard BIS mark is applied if appropriate.



TATA STRUCTURA+

Full Hard Cold Rolled (FHCR) Tubes

Combined Charm of Aesthetics and Strength

Crafted from high-quality steel, these tubes are specially designed to create beautiful structures while ensuring durability.



Advantages



LINEAR PRECISION

FHCR tubes are ideal for straight-line applications where no bending is required.



ELEGANCE

FHCR tubes' smooth surface allows for easy painting, resulting in an elegant finish.



SUPERIOR STRENGTH

These tubes can be applied for better load-bearing capacities of the structure concerned.



Applications

- Roof Sheds
- Balcony Grilles
- Car Parking Shades
- Playground Structures
- Window Grilles
- Front Gates
- Handrails
- Pergolas

Product Parameters

Identification:
Tata Structura+ logo embossed on the product

Length:
6 m

Thickness:
1.88 mm

Types: Available in square, rectangular and circular sectional shapes

