



TATA STEEL
 WeAlsoMakeTomorrow



CanvaNest

Sheds with a difference

Tensile Fabrics based Structural Solutions

Better Protection | Aesthetics
 Light Weight Solution | Low Maintenance



Tensile Fabrics based Structural Solutions

Tensile Fabric is a multi-layer composite material with densely woven low-wick yarn in the base fabric. The surface lacquering is done with a new blend of highly concentrated **Polyvinylidene fluoride (PVDF)** and reinforced with a protective layer of **Titanium dioxide (TiO2) Nano-Primer.**

Product Applications



Gazebo

Entrance Sheds



Ideal for
Resorts | Hotels | Parks | Tourist Places | Individual Houses

Ideal for
Office Complexes | Commercial Complexes
Housing Complexes | Institutions | Community Centre
Individual Houses

Benefits

- + Decorative leisure spaces
- + High durability & longevity
- + Complete turnkey solution including flooring
- + Superior quality
- + Hassle free solution

Benefits

- + Protection from weather
- + Enhances the beauty of the place
- + Convenience in gate operation



Product Applications

In general, Tensile Structure Sheds offer a variety of benefits

- + Protection from UV rays, heat, dust and rainfall
- + Aesthetics
- + Better shape
- + Light structure structural steel from the house of **Tata Steel** i.e. **Tata Structura**

Parking Sheds



Ideal for
Office Complexes | Commercial Complexes
Housing Complexes | Institutions | Community Centres
Individual Houses

Benefits

- + Superior quality
- + Complete solution including foundation
- + Hassle free solution
- + Protection from bird droppings

Covered Walkways



Ideal for
Resorts | Hotels | Parks | Tourist Places |
Individual Houses

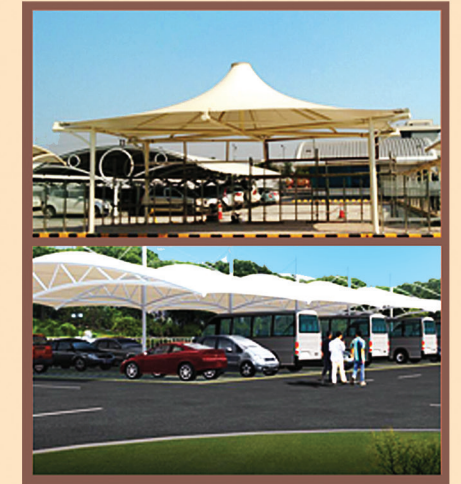
Benefits

- + Enhances the beauty of the place
- + Low maintenance
- + Low dust accumulation
- + Easy cleaning
- + More floor space
- + Less structural support

About Nest-In



Nest-In is Tata Steel's steel based modular construction solution. With its pan-India presence, and highly efficient delivery mechanism, Nest-In strives to provide complete turnkey solutions with a unique customer experience at its core. It is suitable for various applications like Pre-fab housing, Pre-fab modular toilets, Water ATMs, Portable Cabins, Premium Houses etc.



NEST-IN BRANDS



Is a pre-fabricated house



Is a water vending kiosk



Is a portable cabin



Is a modular toilet



Is a rooftop premium housing



Is a tensile fabric based structural solution

The Nest-In edge

Quality

Quality of turnkey solution is of utmost priority

Reach

Strong delivery channel across the Nation

Speed

Faster and hassle free solution

About CanvaNest



TATA STRUCTURA
STEEL HOLLOW SECTIONS
THE SHAPE OF THINGS TO COME

Steel conforming to IS 1161 with Sand Blasting & Painting or Galvanizing

10 Years Warranty on fabric

Built to last
FEA in every joint

Galvanized
Steel Wire Ropes,
Cable fittings
connector

Membrane Connector Plate
MS or Galvanized plates

Fix to foundation
High strength J-bolt
or chemical anchor

FABRIC TYPE AND QUALITY SPEC. SHEET

Finish	PVDF-lacquer on both sides, protected against microbial and fungal attack, UV-protected, low-wick				
Total weight	700 g/m ²	900 g/m ²	1050 g/m ²	1350 g/m ²	1550 g/m ²
Tensile strength Warp/Weft kN/M N/50 mm DIN EN ISO 1421/V1	60/60 3000/3000	86/84 4300/4200	120/110 6000/5500	160/140 8000/7000	200/180 10000/9000
Tear strength Warp/Weft DIN 53363	300/300 N	500/500 N	900/800 N	1200/1200 N	2000/2000 N
Flame retardancy	BS 7837 California T19 D.M.26.06.84 (UNI 9177): CL.2 DIN 4102: B1 NFP 92507 : M2 SIS 650082 EN 13501-1 : B-s3-do	BS 7837 California T19 GOST: G1 DIN 4102: B1 NFP 92507 : M2 NFPA 701 Test 2 EN 13501-1 : B-s3-do	BS 7837 California T19 D.M.26.06.84 (UNI 9177): CL.2 DIN 4102: B1 CAN ULCS 109 EN 13501-1 : B-s2-do	BS 7837 California T19 D.M.26.06.84 (UNI 9177): CL.2 DIN 4102: B1	BS 7837 California T19 DIN 4102: B1
Most common width	250 cm	250 cm	250 cm	250 cm	250 cm
Welding	weldable without grinding and with common welding equipment				

Merits of Tensile Structure Sheds

LOOK & FEEL



Aesthetically appealing.
More architectural beauty.

SPEED OF EXECUTION



Less steel fabrication,
hence quick solution.

LUMINOSITY



High, as tensile fabric is a
translucent material.

WEIGHT



Lightweight roofs built with less
steel and light foundation work.

QUALITY CONTROL



All fabrication done in the factory,
hence better quality structures.

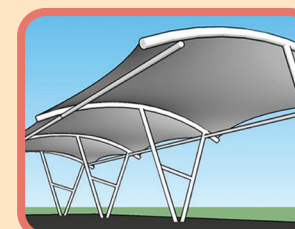
LOW MAINTENANCE



PVDF coating does not allow
dust to settle, can be cleaned
with normal soap water.

How is it made?

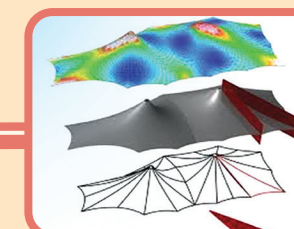
STEP 1



Design and Engineering

- » 3D Design of Tensile Fabrics
- » Structural Engineering

STEP 2



Fabric work

- » Patterning
- » Cutting

STEP 3



Fabric Welding and Stitching

STEP 4



Steel Fabrication

- » Welding
- » Sand Blasting
- » Painting

STEP 5



Installation

- » Foundation
- » Structural Erection
- » Fabric Installation with accessories

SCHEMATIC VIEW OF THE FABRIC

- Top coat upgraded PVDF MEHATOP F1
- TiO₂ nano-titanium reinforced primer
- Main coat UV stable high quality PVC
- Adhesive layer
- Base fabric special densely woven low-wick yarn
- Adhesive layer
- Main coat UV stable high quality PVC
- Back side primer
- Top coat upgraded PVDF MEHATOP F1

