

**SMART
KOOL**

Insulated Panels



Continuous Line

**PUR | PIR | PUF WALL | PUF ROOF
| ROCKWOOL PANELS**

Pre Engineered Buildings | Cold Storages
Industrial Doors | Clean Rooms | Accessories



ELEMENTS

TECHNOFAB PVT. LTD.

®

About Us:

Elements Technofab Pvt. Ltd. is engaged in manufacturing of best in class PUF Panels and its accessories. We are part of the Pune based 'DHOOT GROUP' which has bench marked excellence in the field of construction since 1975. We have a dexterous team of professionals that allows us in conducting each and every activity of the organization flawlessly.

Our Infrastructure:

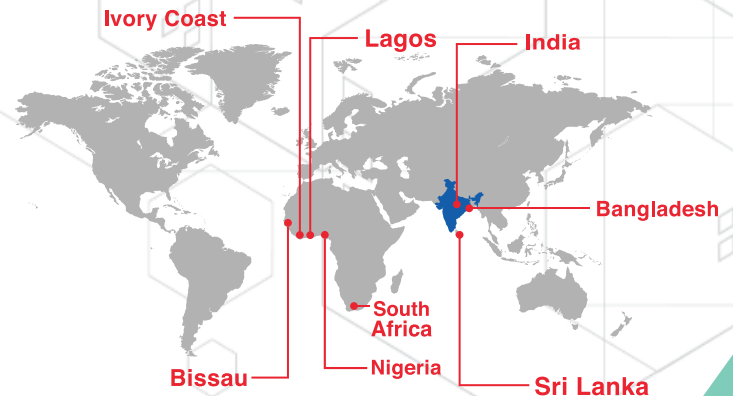
Plant 1

Location: State-of-the-art Prefab Manufacturing at (Supa) Ahmednagar
Area: 4 Acres
Capacity: 6000 MT per annum.

Plant 2

Location: C 29/A, Supa (Ahmednagar)
Area: 3 acres setup with a state-of-the-art PUF Panel Manufacturing Continuous Line,
Capacity: 1.5 lakh sq.m /month.

Our Presence:



Continuous Line Series



Hidden Screw Insulated Panel :

Sandwich PUF Panel with a Concealed-fixing method for high quality industrial and commercial buildings, where good aesthetics are paramount. The special double labyrinth joint of this panel, provides mechanical resistance and insulation superior to any other wall panel product of this kind.

The panel external increases the aesthetic appeal of this panel, which can be orientated both vertically and horizontally as required.

Product Specification:

Design Profile: In Hide Screw

Density: PUR $40 \pm 2\text{kg/m}^3$ and PIR $45 \pm 2\text{kg/m}^3$

Steel Type: PPGI, PPGL

Sheets Profile: Baby Ribs, Micro Ribs, Plain.

Length: Standard length from 2 m to 15 m.

Cover Width: 1000 mm

Thickness: 50mm available

Wall Insulated Panel:

ETPL Controlled Environment panels are designed for use within temperature controlled and hygiene safe environments, such as food processing, freezers, pharmaceutical, cold/ chilled storage and clean rooms.

Product Specification:

Design Profile: Insulated PUR & PIR Panels with tongue and groove joints.

Density: PUR $40 \pm 2\text{kg/m}^3$ and PIR $45 \pm 2\text{kg/m}^3$

Steel Type: PPGI, PPGL

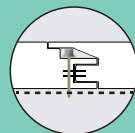
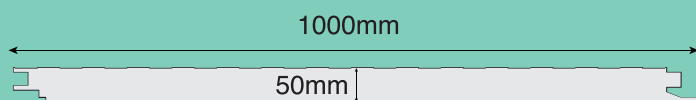
Sheets Profile: Baby Ribs, Micro Ribs, Plain.

Length: Standard length from 2 m to 15 m.

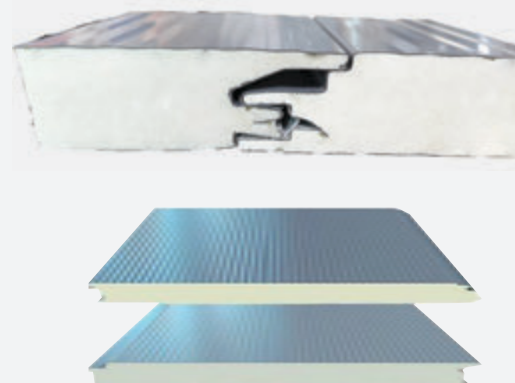
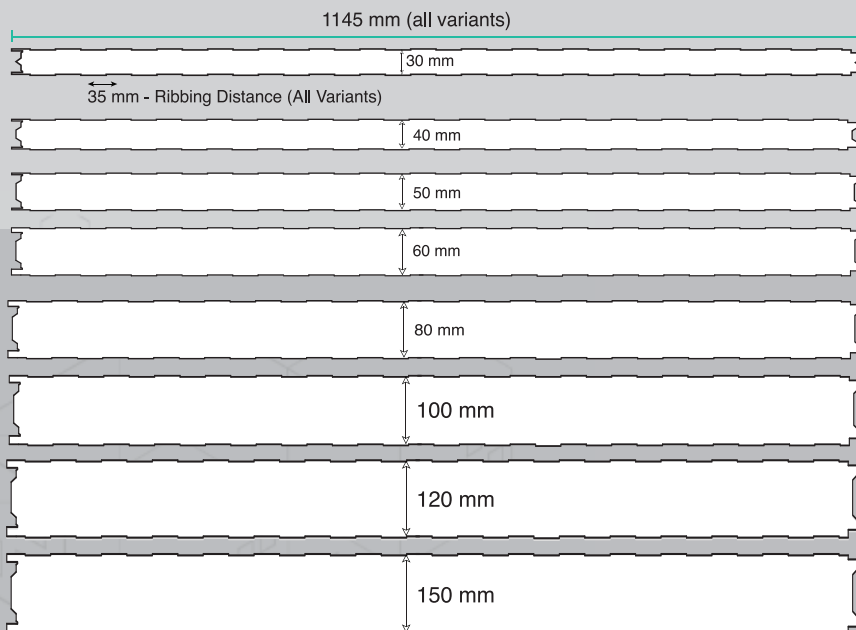
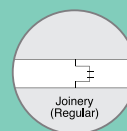
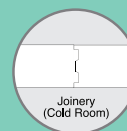
Cover Width: 1000 mm, 1145 mm

Thickness: 30, 40, 50, 60, 80, 100, 120, 150 mm available

Hidden Screw Insulated Panel :



Sheet Profiles :

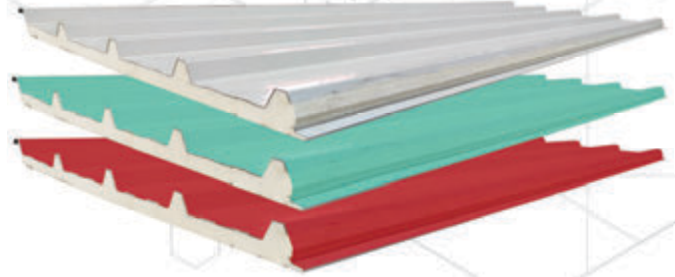


Continuous Line Series

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Roof Insulated Panel:

Our Sandwich Panels PUR / PIR consist of two sheets of pre-painted galvanised steel manufactured in two continuous production lines. PUR / PIR Sandwich Panels are used especially in modular building, prefabricated houses, industrial and agricultural premises, also in special cases in traditional construction.



Product Specification:

Insulation Material: PUR $40 \pm 2 \text{ kg/m}^3$, PIR $45 \pm 2 \text{ kg/m}^3$

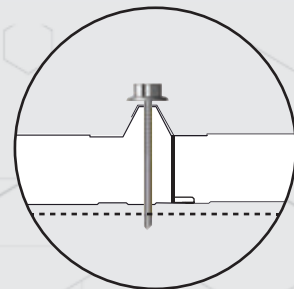
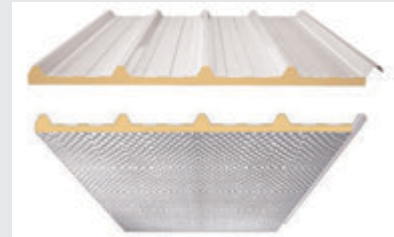
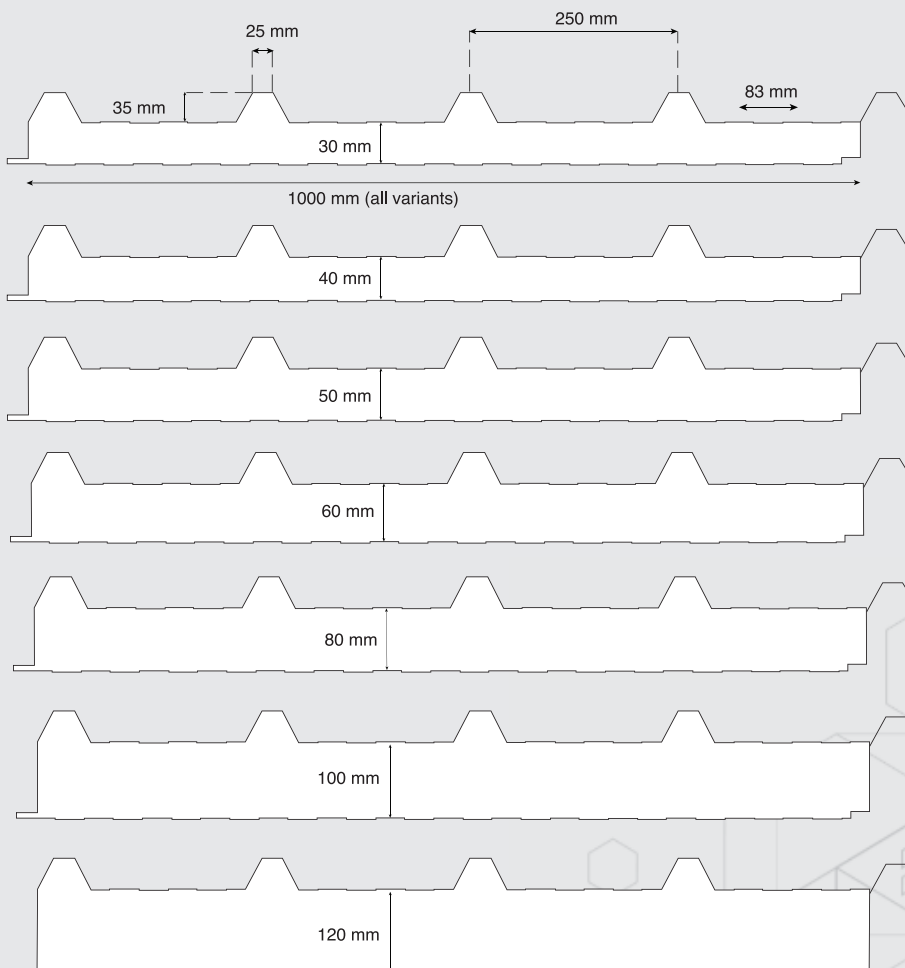
Design Top Profile: Insulated trapezoidal roof panels with 35 MM profile.

Sheet Type: PPGI & PPGL, Aluminium Foil (at bottom).

Length: 2 to 15 Meters, depends on thickness.

Cover Width: 1000 mm

Thickness: 30, 40, 50, 60, 80, 100, 120 mm available.



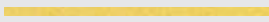

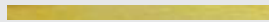





PUF Properties:

Properties	Polyurethane Foam (PUR)	Polyisocyanurate Foam (PIR)
Insulation	CFC & HCFC Free Rigid Polyurethane Foam (PUF) As Per is 12436 Standard	CFC & HCFC Free Rigid Polyisocyanurate Foam (PUF) As Per is 12436 Standard
Foam Overall Density	40 +/- 2 Kg / cu.m	45 +/- 2 Kg / cu.m
Foam Thermal Conductivity (K-Value) at 10°C mean Temp.	0.023 W/m k	0.023 W/m k
Compressive Strength @ 10% deformation	2.10 Kg/sq.cm	2.10 Kg/sq.cm
Tensile Strength	2.5 Kg/sq.cm	2.5 Kg/sq.cm
Flexural / Bending Strength	3.0 Kg/sq.cm	3.0 Kg/sq.cm
Shear Strength	2.5 Kg/sq.m	2.5 Kg/sq.m
Closed Cell Contents	90-95%	90-95%
Horizontal Burning Characteristics	125 mm (Extent of Burn)- Max, Fire Retardent, Self Extinguishing Quality Foam	25 mm (Extent of Burn)- Max, Fire Retardent, Self Extinguishing Quality Foam
Water absorption	0.2% volume at 100% RH, -Max	0.2% volume at 100% RH, -Max
Water Vapour Permeability	0.12 ng/pasm at 88% RH & 38°C-Max	0.12 ng/pasm at 88% RH & 38°C-Max
Dimensional Stability at - 25°C Cold Temp.	± 2%	± 2%
Dimensional Stability at +70°C Cold Temp.	± 2%	± 2%



-  Weather Isolated
-  Noise Insulation
-  Thermal Insulation
-  Easy Installation
-  Fire Resistance
-  Eco-Friendly
-  Leakproof
-  Structural Stability

Comparative insulation values for different kinds of insulation materials.

	
50 mm Pu-rigid foam	80 mm EPS
	
90 mm Mineral wool	100 mm cork
	
130 mm woodfiber	200 mm softwood
	
760 mm light concrete	1720 mm Brick

Rockwool Insulated Panel:

Rockwool insulated Wall and Roof panels having trapezoidal profiled steel on external side and outstanding structural rigidity and has a ribbed internal liner on the inside. The standard thermal insulation core is medium performance Rockwool with available color option.

Product Specification:

Design Profile: Insulated trapezoidal roof panels with 35 mm deep profile from external side & micro ribbed from internal side, Rockwool Panels with tongue and groove joints.

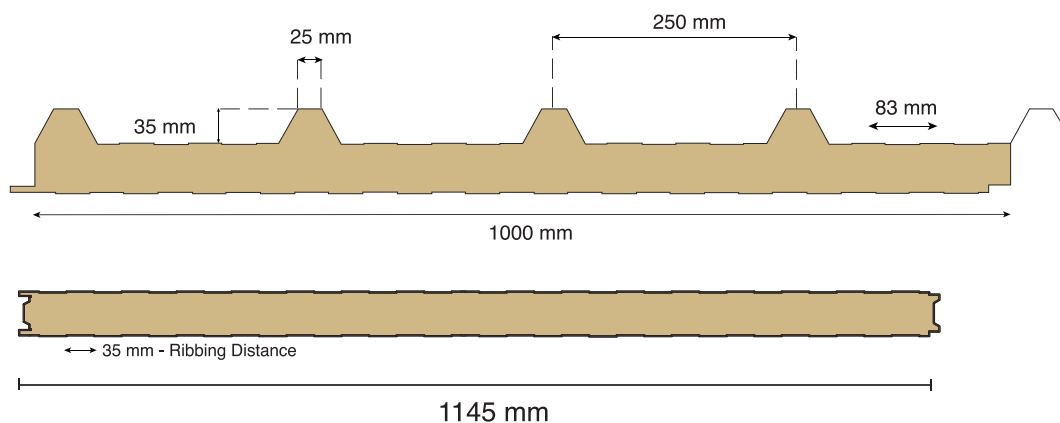
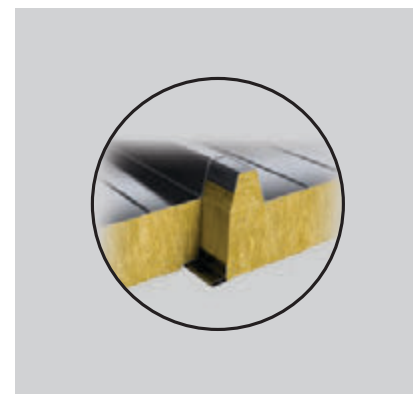
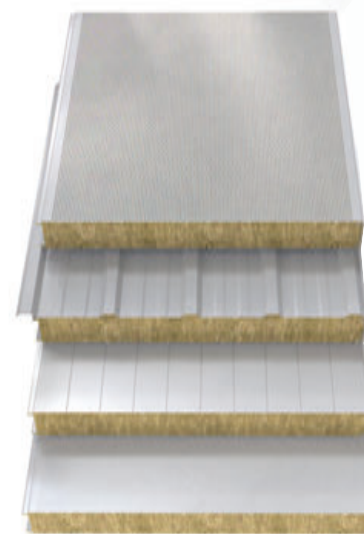
Steel Type: PPGI & PPGL

Density: $100 \pm 2 \text{ kg/m}^3$

Length: Depends on thickness.

Application: Suitable for external roofing of any sloping & can be used for wall cladding.

Thickness: 50,80,100,120,150 available.



PANEL SPECIFICATION					
ETPL1000 Roof (ETPLROC)					
Panel Thickness (mm)	50	80	100	120	150
Overall Thickness (mm)	58	88	138	158	188
U-Value (W/m ² K)	0.9	0.56	0.45	0.37	0.3
R-Value (W/m ² K)	1.1	1.8	2.2	2.7	3.3
Weight (Kg/m ²)	6.3	9	11.2	13	16

ETPL

Accessories & Flashing:

General flashing components made to supplement the complete roof and wall systems ETPL, are manufactured from pre - coated galvanized metal.

Material Specification:

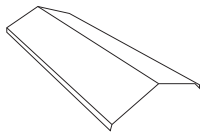
Material: PPGI, PPGL, GI

Thickness: 0.45 or 0.50mm, (0.8 etc)

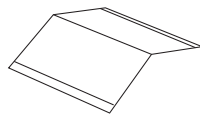
Length: Standard length: 2,500 mm.

Color: To match face of panel

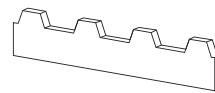
Outer Plain Ridge



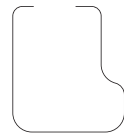
Inner Plain Ridge



End Caps

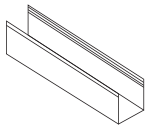


Gutter

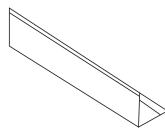


C-Flashing

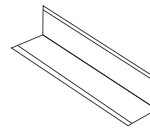
(As per requirement)



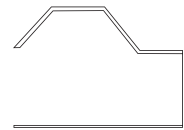
L-Flashing



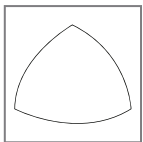
Reverse L-Flashing



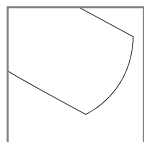
Barge Board



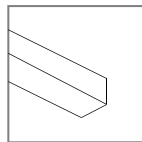
Coving And Corner Component:



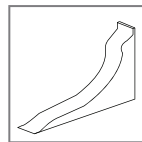
Internal Corner
Cap



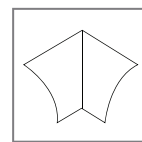
Rounded Corner
PVC Profile



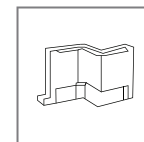
L-backing
Profile



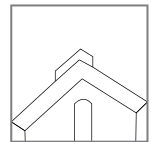
2D Corner



External Corner
Cap



Internal Assembly



Corner Assembly

Ceiling Panel Suspension:



Top Hats:



CLIENT



CONTACT US

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