

PUF PANELS



**Modern
Prefab Systems Pvt. Ltd.**

Delivering Quality on time...

Modern PUF Panel Systems are specifically designed to cater all kinds of Cold Storage, Telecom Shelters, Living Shelters & Clean Room Enclosures. The high performance and quality offered by these systems ensures extra strength, better overlap, weather tightness, corrosion resistance, low maintenance cost and good aesthetics.

Modern PUF Panel Systems consist of prefabricated sandwich panels. The modular design offered by these panels enables easy & quick installation along with durability.

These panels are interlocked with each other using Cam Lock Systems or through Tongue & Groove arrangement, which ensures a precise interlocking of panels and dimensional accuracy. This eliminates the risk of thermal bridging & provides an air tight joints between panels after erection.

PRODUCT APPLICATION FEATURES






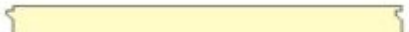
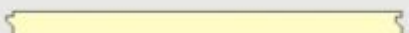
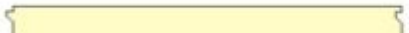
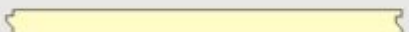
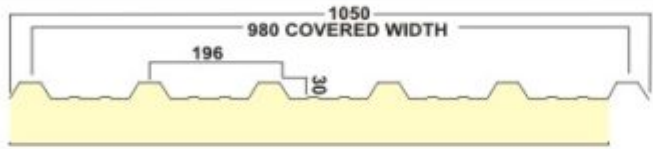
- » Cold Storage
- » Telecom Shelters
- » Living Shelters
- » Vegetable Terminals
- » Refrigerated Van
- » Controlled Atmosphere & Long Term Storage
- » Easy & Quick Installation
- » Controlled Temperature & Humidity
- » Light Weight, Easy to Cut
- » Energy Efficient Rooms
- » Lean Construction
- » Modular Construction
- » Cam-Lock Interlocking

TECHNICAL PROPERTIES OF PUF

DENSITY	40 ± 2 kg/m ²
COMPRESSIVE STRENGTH At 10% deformation	2.1 kg/cm ²
TENSILE STRENGTH	3.7 kg/cm ² BENDING
STRENGTH	4.0 kg/cm ²
ADHESION STRENGTH (Foam to Steel)	2.9 kg/cm ²
DIMENSIONAL STABILITY (48 hours)	
-25°C	0.1%
-38°C & 90% RH	0.1%
-100°C	0.4%
CLOSED CELL CONTENT	90-95%
TEMPERATURE RANGE	-180°C to 110°C
THERMAL CONDUCTIVITY 10°C (Design Value 0.020 k-cal/m-hr°C or 0.23 W/m-k)	0.018 k-cal/m-hr°C
FIRE RESISTANCE Horizontal Extent Of Burn BS 4735	<125mm
SELF EXTINGUISHING ASTM D 1692 (Fire retarded foam chemical) Not easily ignitable as per BS: 476 Pt.5 & Class-I as per BS: 476 Pt.7 (for panel)	Passes
WATER ABSORPTION	0.2% volume at 100% RH
WATER VAPOR PERMEABILITY	(At 90% RH & 38 C) 0.08 - 0.12gms/Hr m ²

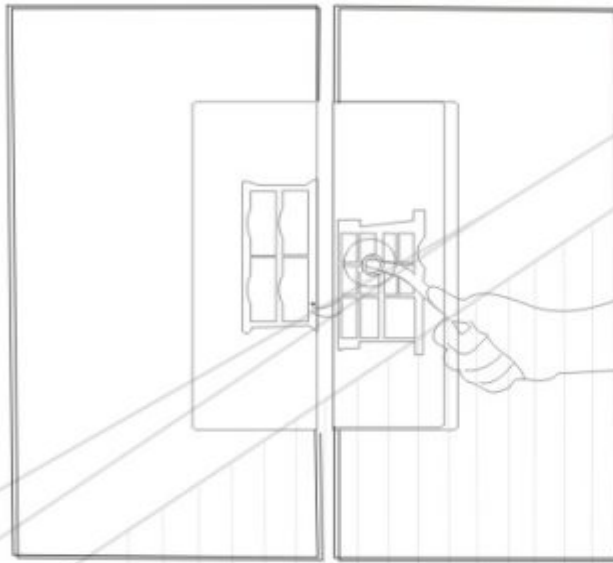


TECHNICAL DATA

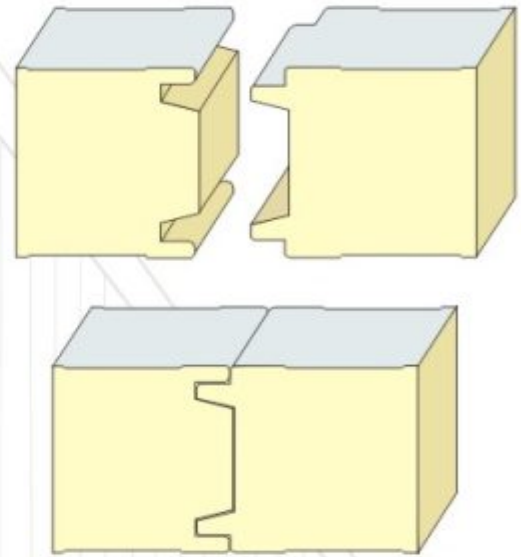
Thickness mm	Coolit	K-Value W/m ² K	Weight Kg/m ²	Ceiling element span, cantilever as single-span girder	Outside walls, bolt distance, single-span system Wall Height	
					To 8 m	To 8-20 m
			0.5+0.5	Appx.m	Appx.m	Appx.m
30		0.58	10.00	3.00	2.50	2.00
40		0.39	10.82	5.00	4.00	3.00
50		0.34	11.22	5.5	3.3	3.50
60		0.30	11.62	6.00	5.00	4.00
80		0.24	12.42	7.00	5.50	5.00
100		0.20	13.22	8.00	6.00	5.50
120		0.16	14.22	9.00	7.00	6.00
150		0.14	15.22	9.00	7.00	6.00
200		0.12	16.42	10.00	7.50	6.50
Roofing Panels						

MODERN PUF INTERLOCKING SYSTEMS

CAM LOCK INTERLOCKING

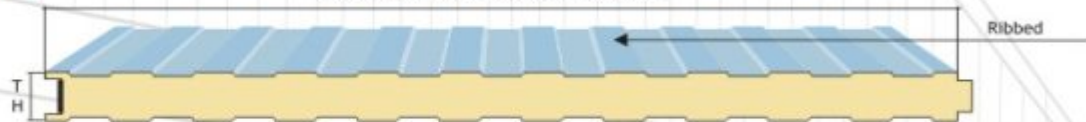


TONGUE & GROOVE INTERLOCKING

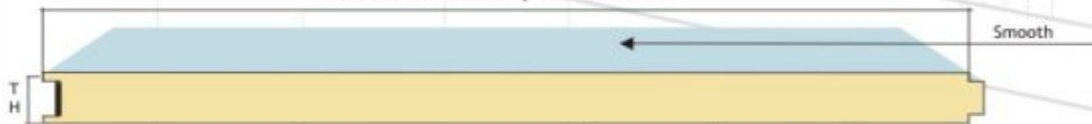


WALL / CEILING PANEL

Variable width upto 1200mm

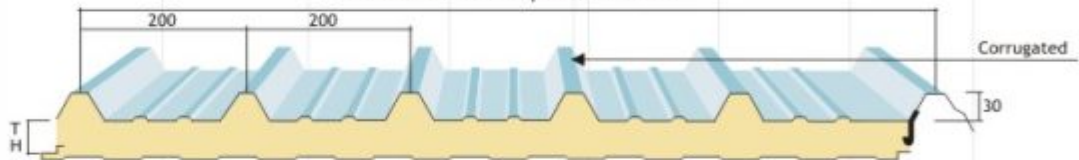


Variable width upto 1200mm



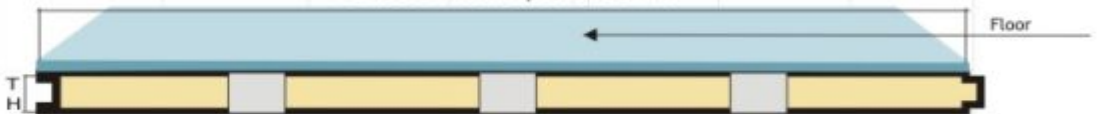
ROOFING PANEL

Variable width upto 1000mm



FLOOR PANEL

Variable width upto 1200mm



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