



**SOLUTION FOR
ALL YOUR INSULATION NEEDS**

PUF ROOF | PUF WALL

MFG. OF INSULATED SANDWICH PANEL



Environmental
Performance



High Thermal
Performance



Tested
Fire Performance



Assured
Warranty

PREFAB BUILDING :: COLD STORAGE :: CLEAN ROOM :: PIPE SECTION & SUPPORT :: PRE INSULATED PIPE

www.unifixplast.com

ABOUT US

Unifix Plast Pvt. Ltd. was incorporated in the year 1996 in Kolkata to meet the demand for quality PUF insulated Panels – Manufactured at our state-of-the-art Production facility spanned over an area of 1,00,000 sqft ; integrated with most advanced Italian high pressure PU forming technology.

With an experience of over 20 years, Unifix has been one of the most reputed and reliable manufacturer of PUF Panel for Cold Rooms, Clean Room as well as Prefab Building Insulation system, with highly experienced in-house design & project execution team, Unifix has executed and successfully completed more than 800 projects widely across Bhutan, India, Nepal & Bangladesh.

At Unifix we manufacture ISO 9001 : 2015 Standard maintained High density & Self-supporting PUF Panels, incorporating high precision joints ; provides excellent air-tightness & prevent any formation of thermal bridge, Hence saving nearly 68% of annual energy consumption of Cold Room & Storages.

We have been at the cutting edge of performance & certification for PIR/PUR Insulated panel products. Our sales executives together with our engineering personnels are available to provide solutions for your all your project requirements.

COMPANY
PROFILE



20

YEARS OF EXPERIENCE



800+

PROJECTS EXECUTED



32000

SQM / MONTHLY

PRODUCTION CAPACITY



1 Lakh

SOFT

MANUFACTURING UNIT



PUF SANDWICH PANEL

Since the early 1990s, PUF/PIR Insulated Panel have contributed in revolutionizing the construction dynamics in our progressively developing country. PUF Panels are used for partitioning along with providing thermal insulation primarily in Cold Room, Clean Room & Construction of Prefabricated Shelters. Because of its exceptionally insulation properties, moreover exhibiting High compressive strength, PUF Sandwich panels have been growing admiration as an efficient & economical Wall - Roof solution.

| Type | Width /mm | Thickness | Profile |
|------------|-------------|--------------|--------------|
| Roof Panel | 1000 | 30 to 100 mm | Trapezoidal |
| Wall Panel | 1195 & 1000 | 30 to 200 mm | Plain Ribbed |



Technical Specification :

PUF Panel As per IS : 12436

| Sl.No. | Parameter | Obsevation |
|--------|---|---|
| 1. | Density | 40 Kg/m ³ ± 2Kg m ³ |
| 2. | Compressive Strength @ 10 % deformation | 2.19 kg/cm ² |
| 3. | Water Absorption | 0.18% volume at 100 % RH |
| 4. | Bending Strength | 4.39 kg/cm ² |
| 5. | Close Cell Content of PUF in % | 95% |
| 6. | Vapour Permeability | 0.11 gsm/hr m ² at 90 % RH & 38° C |
| 7. | Tensile Strength | 4.16 kg/cm ² |
| 8. | Temperature Conductivity | 0.019 K cal/m -hr /° C |
| 9. | Fire Property Extent to burn (Horizontal) | 26 mm - self Extinguishing |
| 10. | Dimensional Stability at | |
| | a. - 25° C Cold temp. (after 24 hrs) | 0.1 % |
| | b. + 38° C & 90 % RH | 0.1 % |
| | c. + 100° C | 0.4 % |



COLD ROOM



We have supplied cold room to :

- ▶ Dairies
- ▶ Fish, meat & other marine products processing units
- ▶ Fruits and vegetable cold rooms
- ▶ Cold room for Ice cream
- ▶ Food processing units
- ▶ Hatchery
- ▶ Medicine storages
- ▶ Controlled temperature warehouses
- ▶ Biscuits and cake factories
- ▶ Banana ripening chambers
- ▶ Poultry farms
- ▶ Blast freezers
- ▶ Frozen foods
- ▶ Floriculture
- ▶ Mortuary
- ▶ Walk-in Cold Room & many more ...





Thermally Efficient

Our insulated panel cores guarantee superior thermal performance in hot and cold condition



Guaranteed Airtightness

Our factory pre-engineered systems incorporate high precision joints, which create unsurpassed airtight buildings.

Unifix manufacture & supply ISO 9001 : 2015 Standard maintained High density PUF Panels for Cold Room & Cold Storage , Unifix PUF Panels has been specially designed to provide an extremely low thermal conductivity of ± 0.0191 kcal/m-hr/c considering high thermal cyclic load on Insulated panels on the edge of modern technology in acquiescence with designate benchmarks of industry, Therefore being the most ideal and economical material for Cold Storage as well as Cold Room Insulation. Closed Cell Rigid Polyurethane foam is the highest rated insulation material in the world with a R-Value of R-7 & R-8 per inch.



PREFABRICATED SHELTER



Weathering
with exceptional
Lifetime resilience



Thermally Efficient
building are cooler in
Summer, Warmer in winters



**Weather
Resistance**



**Cost
Effective**



**Quick
Installation**



**Low
Maintenance**

High Quality factory engineered solution,
The shelters can be fabricated according to
the required specification. Ideal for
Healthcare, Commercial, Training centre,
Defence, Site Hutment etc.



80°C/176°F



-50°C/-58°F

Unifix Prefab Shelters is a quick & cost-effective method of construction especially designed & manufactured in our state-of-the-art manufacturing unit in Kolkata, West Bengal. The Fabrication of the shelters are done utilizing TATA Hollow Square pipe section and exceptional quality raw material on the edge of modern technology in acquiescence with designate benchmarks of industry, ISO 9001 : 2015 Standard maintained High density PUF Wall Panel & PUF Roof Panel manufactured at our in-house production facility is used for the insulation of Prefabricated Modular Shelters.

With an experience of over 20 years and successful completion of more than 500 Prefab project across Bhutan, India, Nepal & Bangladesh we at Unifix focus on developing the most sustainable and cost-effective method of construction of prefabricated modular shelter.



Kaushal Bikas Kendra, Bihar



Small Living Shelter



Lecture Room



4 Rooms Office Quarter



Shelter at Railway crossing



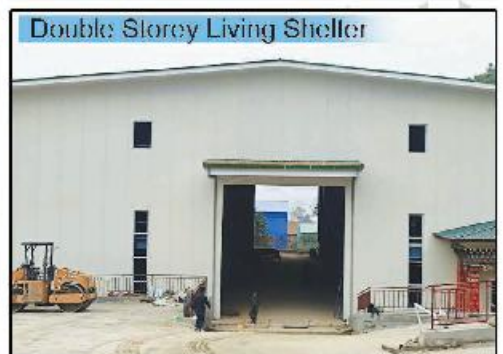
Forest Office



Production Unit



Machine Room



Double Storey Living Shelter

CLEAN ROOM

Our pre-engineered Insulated panels provides a controlled environmental parameter such as temperature, humidity, pressure furthermore enables to reduce particulate contamination hence maintaining a low pollutant environment, minimizing the presence of dust, airborne microbes, aerosol particles, and chemical vapours.

Cleanroom are practically used in every industry where small particle can adversely affect the process. Cleanroom dimension and complexity can be customized as per industrial requirement. They are primarily used in pharmaceutical unit and Food Processing industry and also have its extensive application in Semiconductor & Solar panel manufacturing industries, as well as critical process manufacturing common in aerospace, Optics & Department of energy.





PUF PIPE SECTION



Unifix PUF Pipe Section are available in different pipe sizes, From 15 mm NB to 600 mm NB or desired dia & thickness available from **30 mm to 150 mm**.

Also available with Craft paper & Aluminium foil.



PUF PIPE SUPPORT

Unifix PUF Support are available in different pipe sizes 15 mm NB to 600 mm NB.

Density : $160 \text{ kgm}^3 + 10 \text{ kgm}^3$



PUF SLAB

Unifix PUF Slab are the most economical insulation material, Rigid PUF Slabs are used for floor & Under deck insulation.

Also available with Craft paper & Aluminium foil.

ROOF SPRAY INSULATION

Roof Insulation can be done by PUF spraying on the roof top of the Cold Storage, Hospitals, Commercial Buildings, Residential Buildings, Factory Sheds and Buildings, Hotels, Rooftop Restaurants etc. We are having expertise for insulation of Rooftop with PUF by Spray Technology.



PUF Spray on Roof top of Cold storage



PUF Spray on Asbestos Roof sheet



PRE INSULATED PIPE

Unifix Preinsulated Pipe system (Pipe in pipe) is a factory made for below and above ground distribution of hot or chilled water / gas / petroleum products and other substances. The system is designed with heavy duty carrier pipe made of Steel / PVC / HDPE, Polyurethane Foam Insulation and a sleeve made of GI/ Aluminum spiral duct or HDPE (High Density Polyethylene) as a jacket.



INSITU APPLICATIONS

We do "Insitu" (filling of cavity with PUF by high pressure injecting machine) application at sites such as insulation of Pipe Line, tanks, Vessels etc. "Pipe-in-Pipe" insulation can be done as per specification.

We can undertake Insitu Application / assignments for Refrigerated vans and containers for carrying food articles, ice-cream, milk, marine products, processed food. We are also capable of undertaking Insitu Application for vessels, containers, pipe cavities etc.

We are equipped with state-of-the-art machineries and equipments for Insitu Application.



CLIENT LIST

Coca-Cola



keventer
serving lives, everyday



METRO

Borkars
PACKAGING

modern



VOLTAS



vikram solar



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