

## PROPERTIES

**ENERGY EFFICIENT:** VITAPUR pre-insulated roofing sheets have a core of continuous, rigid PU insulation obtaining superb R- and U- values resulting in high energy efficiency.

**CHEMICALLY INERT:** VITAPUR pre-insulated roofing sheets are resistant to the chemicals typically used in construction and is compatible with most solvent-containing adhesives, paints and wood preservatives.

**COST SAVING:** A rough estimate of what this difference means in terms of energy consumption can be made based on the example of a factory building. Assuming the building has a floor area of 40 x 20 square metres and 10 metres high, the annual amount of heating oil saved could be roughly 3,000 litres if both the walls and the roof are insulated with PU/PIR metal-faced sandwich panels rather than panels of the same thickness based on mineral wool.

**EASE OF INSTALLATION:** With VITAPUR pre-insulated roofing sheets assembly is fast and easy ensuring cost-effective, efficient construction.

**THERMAL INSULATION:** VITAPUR pre-insulated roofing sheets have extremely low thermal conductivity values making it an ideal insulation material.

**LOAD-BEARING CAPABILITIES:** VITAPUR pre-insulated roofing sheets have good load-bearing capability with high strength to weight ratio. As a result, these thin, relatively lightweight sheets can safely bridge large spans.

## APPLICATION AREA

- Industrial Buildings
- Commercial Buildings
- Residential buildings
- Warehouses
- Cold Store/ Blast Freezers
- Ultra clean rooms and Sterile laboratories
- Air Handling Units
- Malls / Departmental Stores



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**PRE-INSULATED  
ROOFING SHEETS**

OUTER

INNER



## PRE-INSULATED ROOFING SHEETS

VITAPUR pre-insulated roofing sheets consists of a top layer of aluminium sheet bonded to a polyurethane foam core incorporating superior air tightness and moisture control as well as a high R-value all in one component.

VITAPUR pre-insulated roofing sheets offers consistent and high performance roof insulation compared with conventional roofing systems.

VITAPUR pre-insulated roofing sheets span longer, require less structural support and offer superior thermal performance in a single composite product that is a roof, ceiling and insulation in one.

Whether you're searching for green building products or just want to save money, VITAPUR pre-insulated roofing sheets provide the answers you need for energy-efficient, easy construction that cuts utility bills every month.

VITAPUR pre-insulated roofing sheets works well as roofs for both new construction retrofitting, giving a new lease of life to your old buildings.



## THERMAL CONDUCTIVITY(K value)

EXPANDED CLAY	0.100
STRAW	0.090
WOOD WOOL	0.060
COCONUT FIBER	0.050
CORK SHEET	0.045
MINERAL WOOL	0.040
POLYSTYRENE	0.035
POLYURETHANE	0.024

\* IN WATTS PER METER AND KELVIN (W/mK). THE LOWER THE VALUE THE BETTER THE INSULATION

## SPECIFICATIONS

- Panel thickness available: \_\_\_\_\_
- Panel width available: \_\_\_\_\_
- Panel length available: \_\_\_\_\_
- Average density: \_\_\_\_\_
- Thermal conductivity: \_\_\_\_\_
- Temperature range: \_\_\_\_\_
- Free from CFC: \_\_\_\_\_
- Type of foam: \_\_\_\_\_
- Heat transfer coefficient: \_\_\_\_\_
- Pressure: \_\_\_\_\_
- Cubic Area Change: \_\_\_\_\_

## 35 mm PUF is equal to

50 mm EPS (Thermocol)
55 mm Glass wool
60 mm Mineral wool
80 mm Fiber board
175 mm Wood
475 mm Concrete
1075 mm Thick Brick work

## ADVANTAGES

- Fast and easy installation.
- Light weight.
- Space Saving.
- Various designs/vivid colours.
- High Load bearing capacity at low weight.
- Excellent and durable thermal insulation.
- Capacity for rapid erection without lifting equipments.
- Easier installation in hostile weather conditions.
- Easy repair and replacement in case of damage.
- Long life and very low maintenance cost.
- Good sound insulation
- Reasonable fire reaction and resistance.
- Dimensional stability
- High strength to weight ratio allowing for large spans and resulting in savings on intermediate supports.

