

PROPERTIES

MECHANICAL STRENGTH: Thanks to their excellent mechanical strength, **VITAPUR ISOBOARDS** a high load-bearing capability; they can also be combined with other materials and are easy to install on the building site.

THERMAL INSULATION: **VITAPUR ISOBOARDS** have extremely low thermal conductivity values making it an ideal insulation material.

CHEMICAL AND BIOLOGICAL STABILITY: Contact with chemicals can affect the properties of insulation materials. However, **VITAPUR ISOBOARDS** are for the most part resistant to the common chemical substances used in building. Also Rigid polyurethane foam does not rot; it resists mould and decay and is odour-neutral.

EASE OF INSTALLATION: Installation is fast and easy ensuring cost-effective, efficient construction.

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

COST SAVING: Energy loss in buildings means extra operating costs, loss of comfort, and reduced productivity. When it comes to energy efficiency in buildings, Vitapur Isoboards is a very efficient thermal insulating product for buildings. It helps to reduce heating and cooling loss, improving the efficiency of the building envelope.

LIGHT WEIGHT: **VITAPUR ISOBOARDS** are light weight, easy to handle and install on site.

HEAT AGEING RESISTANCE: **VITAPUR ISOBOARDS** have excellent Heat Ageing Resistance and resistance to bacteria and micro-organism growth.

WATER RESISTANT: **VITAPUR ISOBOARDS** have good resistance to Water Vapour Diffusion and Water Absorption under recommended application conditions.

APPLICATION AREA

- Industrial Buildings
- Commercial Buildings
- Residential buildings
- Cold Store/ Blast Freezers
- Ultra clean rooms and Sterile laboratories
- Temporary buildings
- Warehouses
- Factories



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ISO-BOARDS

OUTER

INNER



ISO-BOARDS

VITAPUR ISOBOARD is a closed-cell polyurethane board used as factory-made thermal insulation material in the form of insulation boards. It is a highly effective form of insulation that is used in buildings where space is limited. It is better able to regulate air flow and temperature changes than fibreglass and other forms of insulation, by having a higher R-value per inch of thickness than these alternative materials.

In modest material thicknesses, **VITAPUR ISOBOARDS** offer optimal thermal insulation coupled with an exceptional space-utility advantage. It is one of the most efficient, cost-effective high performance insulation materials available today, unmatched by any other conventional product enabling very effective energy savings with minimal occupation of space.

VITAPUR ISOBOARDS offer optimal, long-life insulation with no drawbacks, maintenance or repairs. It enhances the value of property and the quality of life leading to large energy savings and reduced air-conditioning costs. It is also cost-effective and easy to install.

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

- Rigid polyurethane boards offer optimal, long-life insulation with no drawbacks, maintenance or repairs.
- It enhances the value of property and the quality of life.
- It leads to large energy savings and reduced heating costs.
- Its cost-effective and easy to install.
- provides significant thermal insulation benefits in commercial, industrial and domestic construction applications
- cost effective due the combination of very good Thermal Insulation properties and low installed cost of product

