



VITAPUR SANDWICH PANELS consists of exterior and interior facings of relatively thin metal sheets encasing a core of rigid polyurethane. The resultant sandwich panel has a load-bearing capability many times greater than that achieved by adding together the load-bearing capacities of the individual layers. As a result, these thin, relatively lightweights sandwich panels can safely bridge wide spans. For example, a panel just 100mm thick can easily bridge a clear span of some 6 meters.

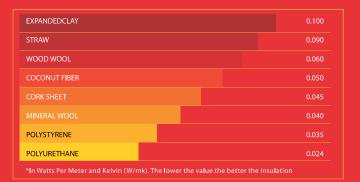
 $MetaFfaced\ polyure than e\ sandwich\ panels\ are\ the\ system\ of\ choice\ today\ for\ large\ industrial\ buildings, refrigerated\ warehouse, office\ blocks, exhibition\ halls, fair\ pavilions,\ schools\ and\ sports\ halls.$

 $The aluminium\ or\ steel\ facings\ themselves\ are\ surface\ coated\ and\ can\ be\ manufactured\ with\ profiles\ of\ various\ depths\ leading\ to\ a\ higher\ load-bearing\ capabilities.$

VITAPUR SANDWICH PANELS come complete with specially formed joints ensuring a perfect fit and maximum integrity. Assembly is fast, easy and cost effective.

 $\label{eq:purple} A \textit{vailable} \, as \, \text{Polyurethene} \, (\text{PUF}) \, and \, \text{Poly Isocyanurate} \, (\text{PIR}) \, foam.$

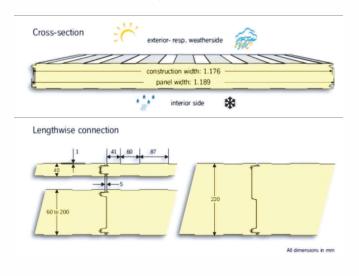
THERMAL CONDUCTIVITY (K VALUE)

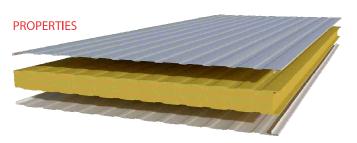


SPECIFICATIONS Panel thickness available: 40mm to 150mm Panel width available: 40mm to 150mm Panel length available: Up to 1200mm Average density: 40-42kg/ cubic meter (PUF) 48-5008/cubic meter (PIF) Thermal conductivity: -180 Deg C to +140 Deg C Type of form: PUf or PIR Colour available: Off-White TYPES OF INTERLOCK Cam lock PVC interlock Tongue and groove 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.
- $\blacksquare \ \ \mathsf{Capacity} \ \mathsf{for} \ \mathsf{rapid} \ \mathsf{erection} \ \mathsf{without} \ \mathsf{lifting} \ \mathsf{equipments}.$
- 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.







ENERGY EFFICIENT: With 80 mm thick sandwich panels polyurethane rigid foam, the U value is 0.0297 W/(mk). In comparison, a solid wall with 24 cm thick masonry and 2cm plaster walls has U value of 1.85 W/(m k).



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



ENERGY 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 40×20 square metres and 10 metres high, the annual amount of heating oil swed 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: VITAPUR Sandwich Panels come complete with specially formed interlocks ensuring a perfect fit and maximum integrity. Assembly is fast and easy ensuring cost-effective, efficient construction.



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



LOAD-BEARINB CAPABILITIES: VITAPUR Sandwich Panels have a load-bearing capacity many times greater than that achieved by adding together the load-bearing capacities of the individual layers. As a result, these thin, relatively lightweight sandwich panels can safely bridge wide spans.



TEMPERATURE RANGE: -180Deg C to +140Deg C

APPLICATION

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









