

# PRODUCT DATA SHEET

## Sikatherm<sup>®</sup> PIR GT

### PIR GLASS TISSUE FACED THERMAL INSULATION BOARD

#### PRODUCT DESCRIPTION

Sikatherm<sup>®</sup> PIR GT is an insulation board for flat Roofing. It is faced on both sides with a coated glass tissue bonded to the insulation core and produces a tough, durable, light weight insulation board.

#### USES

- Thermal insulation underneath Sikaplan<sup>®</sup>, Sarnafil<sup>®</sup>, Sikalastic<sup>®</sup> and SikaBit<sup>®</sup> roof waterproofing layer.

#### CHARACTERISTICS / ADVANTAGES

- Produced with a blowing agent with zero Ozone Depletion Potential (ODP)
- Low thermal conductivity
- Ideal for new construction and refurbishment
- No separation layer for PVC membranes required
- High compressive strength
- Light weight and low load on the roofing structure

#### APPROVALS / STANDARDS

- Factory Mutual (FM) Certificate

#### PRODUCT INFORMATION

<b>Packaging</b>	Full length and width boards in protective wrapping
<b>Shelf Life</b>	5 years from date of production
<b>Storage Conditions</b>	Product must be stored in original unopened and undamaged sealed packaging in dry indoor conditions. If stored outside the boards must be stacked clear of the ground and covered with a polythene sheet or weatherproof tarpaulin. Boards that have become wet must be discarded. Always refer to packaging.
<b>Density</b>	~32 kg/m <sup>3</sup>
<b>Dimensions</b>	As per current price list
<b>Thickness</b>	

#### TECHNICAL INFORMATION

<b>Compressive Strength</b>	> 150 kPa at 10 % deformation	(EN 826)
<b>Dimensional Stability</b>	DS (70,90) 3	(EN 1604)
<b>Reaction to Fire</b>	Euroclass RtF E	(EN 13501-1)

## Thermal Conductivity

Thickness	Thermal Conductivity
< 80 mm	0,026 W/(m·K)
80 to 119 mm	0,025 W/(m·K)
> 120 mm	0,024 W/(m·K)

(EN 12667 / EN 12939)

The  $\lambda$ -values quoted are in accordance with the Harmonised European Standard EN 13165:2012 (Thermal insulation products for buildings – Factory made rigid polyurethane foam (PUR) products – Specification).

## APPLICATION INFORMATION

### Ambient Air Temperature

Refer to roof waterproofing membrane system temperature limitations in Product Data Sheets.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. It must be clean, dry and free of grease and dust.

### APPLICATION METHOD / TOOLS

#### Installation procedure

Reference must be made to further documentation where applicable, such as relevant Sika specifications, application manual and installation or working instructions.

#### General

Sikatherm® PIR GT must be laid over a vapour control layer and attached to the substrate with fasteners or adhesive.

#### Mechanical fixing method

The number of mechanical fixings required to fix Sikatherm® PIR GT will vary with the geographical location of the building, the local topography and the height and width of the roof concerned along with the deck type. Mechanical fixings must be arranged in an even pattern. Fasteners at board edges must be located >50 mm and <150 mm from edges and corners of the board.

#### Bonding method:

Sikatherm® PIR GT can also be attached to the substrate with the appropriate Sika adhesive, according to the requirements of the wind-load. For more detailed information refer to relevant adhesive Product Data Sheet.

#### Ballasted method

If Sikatherm® PIR GT can be applied in a ballasted flat roof assembly, The ballast weight needs to be at least 80 kg/m<sup>2</sup>.

## LIMITATIONS

Installation work must only be carried out by Sika® trained and approved contractors, experienced in this type of application.

- The product is not classified as hazardous good for transport. Local safety regulations must be observed.
- During the construction process, the construction should be protected from rain penetration during breaks in the process.
- The use of some ancillary products such as adhesives, cleaners and solvents is limited to temperatures above +5 °C. Observe temperature limitations in the appropriate Product Data Sheets.
- Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations.

## VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

# ECOLOGY, HEALTH AND SAFETY

## REGULATION (EC) NO 1907/2006 - REACH

REGULATION (EC) NO 1907/2006 - REACH: This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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