BUILDING TRUST

PRODUCT DATA SHEET

Sikatherm® PIR GT

PIR glass tissue faced thermal Insulation board

DESCRIPTION

Sikatherm® 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®, Sarnafil®, Sikalastic® and SikaBit® 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

Packaging	Full length and width boards in protective wrapping	
Shelf Life	5 years from date of production	
Storage Conditions	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.	
Density	~32 kg/m³	
Dimensions	Board sizes	1 200 × 600 mm 2 400 × 1 200 mm
	Products are available with square or with rebated edges with thicknesses from 25 up to 160 mm. 40 mm and below thick boards are only available with square edges.	
Thickness		

TECHNICAL INFORMATION

Compressive Strength	> 150 kPa at 10 % deformation	(EN 826)
Dimensional Stability	DS (70,90) 3	(EN 1604)

Reaction to Fire	Euroclass RtF E	(EN 13501-1)

Thermal Conductivity (EN 12667 / EN 12939)

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)

The λ–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).

SYSTEM INFORMATION

System Structure

The following products must be considered for use depending on roof design:
Ancillary products:
- Sika® RoofBond adhesive
- Sarnacol® adhesive
- Sarnafast® fasteners
- Sarnavap® 5000 E SA
- SikaBit® VB

Compatibility

Sikatherm® PIR GT is compatible with FPO and PVC single ply membranes Sikaplan® / Sarnafil®. No additional separation layer is required, when Sikaplan® / Sarnafil® is applied over the board surface, faced with a glass tissue. Direct contact between the board core and single ply PVC membranes must be avoided.

APPLICATION INFORMATION

Ambient Air Temperature

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

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

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.

ECOLOGY, HEALTH AND SAFETY

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 the 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).

APPLICATION INSTRUCTIONS

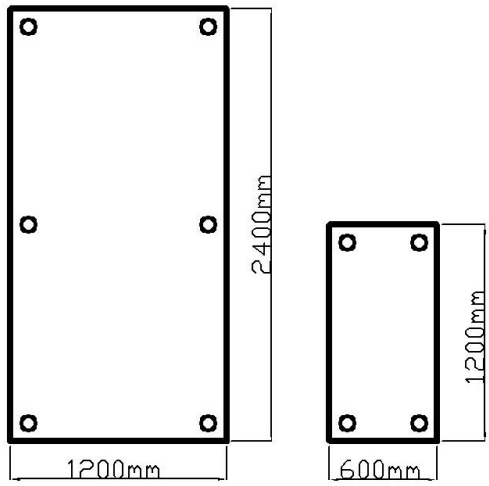
SUBSTRATE QUALITY

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 method statement, 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. A minimum of 6 fixings are required to secure a 2.4 × 1.2 m insulation board to the deck. The requirement for additional fixings must be assessed in accordance with local national norms and standards. 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.
The requirements for securing the waterproofing membrane will be in accordance with relevant Product Data Sheet.



Bonding method:
Sikatherm® PIR GT can also be attached to the substrate with Sika RoofBond adhesive. Sika RoofBond must be applied according to the requirements of the wind-load zones. Wind load must not exceed 2.4 kN/m².
For more detailed information refer to relevant adhesive Product Data Sheet.
Ballasted method
If Sikatherm® PIR GT is applied in a ballasted flat roof assembly. The ballast weight needs to be according to the local regulations but shall be at least 80 kg/m².

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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