

PRODUCT DATA SHEET

Sarnatherm® R

PIR insulation board with glass tissue faced

DESCRIPTION

Sarnatherm® R is a PIR insulation board with glass tissue faced. Sarnatherm® R is suitable for use in new construction and re-roofing with Sarnafil® or Sikaplan® membranes.

USES

Wherever insulation is required within a conventional roof assembly to achieve specified thermal resistance.

- New roofs
- Recover roofs
- Mechanically fastened systems
- Adhered systems

CHARACTERISTICS / ADVANTAGES

- Low GWP (global warming potential)
- Zero ODP (ozone depletion potential)
- Compatible with Sarnafil® and Sikaplan® membranes

APPROVALS / STANDARDS

- Factory Mutual (FM) Certificate

PRODUCT INFORMATION

Packaging

- 0.6 m x 1.2 m
- 1.2 m x 2.4 m
- various thickness

Shelf Life

5 years from date of production

Storage Conditions

Factory-applied packaging is intended only for protection during transit. When stored outdoors or on the job site, the insulation should be stacked on pallets at least 4 in (102 mm) above ground level and completely covered with a weatherproof covering such as a tarpaulin. The temporary factory-applied packaging should be slit or removed to prevent accumulation of condensation.

Density

~32 kg/m³

TECHNICAL INFORMATION

Compressive Strength

> 150 kPa at 10 % deformation

(EN 826)

Dimensional Stability

DS (70,90) 3

(EN 1604)

Reaction to Fire

B-s2, d0 Standard assembly n.3
Class F

(EN 15715)
(EN 13501-1)

< 80 mm	0.026 W/(m·K)
80 to 119 mm	0.025 W/(m·K)
≥ 120 mm	0.024 W/(m·K)

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®

Compatibility

Sarnatherm® R is compatible with FPO and PVC single ply membranes Sika-plan® / Sarnafil®. No additional separation layer is required, when Sika-plan® / 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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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

Sarnatherm® R 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 Sarnatherm® R 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 ≥ 100 mm and ≤ 250 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

Sarnatherm® R 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 Sarnatherm® R 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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Product Data Sheet

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