

PRODUCT DATA SHEET

Sarnatherm® PIR AL IN

PIR THERMAL INSULATION BOARD

DESCRIPTION

Sarnatherm® PIR AL IN is a rigid insulation board, faced on both sides with an aluminium composite foil, autohesively bonded to the insulation core during the manufacturing process. The core of Sarnatherm® PIR AL IN is a high performance CFC / HCFC – free rigid urethane insulant with a typical density of 46 kg/m³.

USES

- Underdeck Insulation -Thermal insulation underneath waterproofing layer in following roofings systems:Sarnafil® S 327,TS,etc type mechanically fastened single ply membrane systems
- Wall Insulation
- Floor Insulation

CHARACTERISTICS / ADVANTAGES

- Very low thermal conductivity
- CFC/HCFC-free with zero Ozone Depletion Potential (ODP)
- Ideal for new construction and refurbishment
- No separation layer for membranes is required
- High compression strength
- Lightweight and low load on the roofing structure
- Available as uniform thickness or tapered

PRODUCT INFORMATION

Construction	Closed cell Poly-Isocyanurate Rigid (PIR) foam “Sandwiched” between Aluminium foils on each side.
Packaging	2400 mm x 1200 mm (LxW),30 mm thick (Other sizes possible for bulk volume requirements)
Shelf life	Will not expire in the short term if stored correctly
Storage conditions	The packaging of Sarnatherm® PIR AL IN shall not be considered adequate for longterm outside protection. Ideally, boards shall be stored inside a building. If however, outside storage cannot be avoided the boards shall be stacked clear of the ground and covered with a polythene sheet or weatherproof tarpaulin. Boards that have been allowed to get wet must not be used.
Density	46 ± 3 kg/m ³
Product declaration	GreenPro & GRIHA Certified
Thickness	Composite : 30mm ,Aluminium Foil : ≈ 45 microns

TECHNICAL INFORMATION

Resistance to fire

Fire Propagation	Class 0, according to BS 476 Part 6 & Part 7
Surface Spread of Flame	Class 1, according to BS 476 Part 7
Smoke Development Index	Class A, according to ASTM E-84
Fire Rating	2 hours at 250°C

Permeability to water vapour

Nil

Thermal conductivity

U Value : 0.123 ft²·°F·h/BTU or 0.022 W/m²·K (Very low, indicates very high degree of Insulation)

Water absorption

< 0.05 % (Negligible)

Thermal resistance

R Value : 8.112 ft²·°F·h/BTU

SYSTEM INFORMATION

System structure

- Roof waterproofing single ply membranes-Sarnafil® S 327, TS,etc
- Fasteners and fixings- Sarnafil® fixing range
- Vapour control layers- Sarnavap® range

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 works to be carried out only by Trained Sarnafil® Contractors. Temperature limits will depend on waterproofing membrane installation limits. Use of some ancillary products, e.g. adhesives is limited to temperatures above +5 °C. Please observe information given by Product Data Sheets.

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.

SUBSTRATE QUALITY

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

APPLICATION METHOD / TOOLS

Sarnatherm® PIR AL IN shall be laid over a suitable vapour control layer. Sarnatherm® PIR AL IN must be attached to the substrate with the appropriate mechanical fixings. Project specific fixing details must be as-

certained from the latest Sarnafil project specification.

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 exact product data and uses.

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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