



## PRODUCT DATA SHEET

# Sarnatherm® Roof Board A-III

### HIGH-DENSITY POLYISOCYANURATE ROOF BOARD

#### PRODUCT DESCRIPTION

Sarnatherm® Roof Board A-III is a lightweight, high-density polyisocyanurate roof board with coated glass facers. Sarnatherm® Roof Board A-III is suitable for use in new construction and recover roof applications with Sarnafil® or Sikaplan® roof membranes. The coated glass facers provide strong, smooth surfaces suitable for mechanically attached or adhered applications.

#### WHERE TO USE

Used as a lightweight roof board in conventional roof assemblies

#### AREAS OF APPLICATION

- New Roofs
- Recover Roofs
- Mechanically Attached Systems
- Adhered Systems

#### CHARACTERISTICS / ADVANTAGES

- Lightweight for easy hoisting, staging and maneuvering
- High impact and flexural strength
- Easy scoring, cutting and snapping
- Improved coverage rates in adhered systems
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology
- Virtually no Global Warming Potential (GWP)
- Zero Ozone Depletion Potential (ODP)
- Recognized as resistant or highly resistant to mold growth

#### APPROVALS / CERTIFICATES

- ASTM C1289, Type II, Class 4, Grade 1 (551 kPa (80 psi)) minimum, up to (758 kPa (110 psi))
- FM 4450 / 4470
- FM 4473 hail rating SH-1
- UL Classified 790
- UL Certified for Canada
- CSA-A123.21

#### PRODUCT INFORMATION

<b>Composition / Manufacturing</b>	Polyisocyanurate foam core with coated glass facers
<b>Recycled content</b>	7.4% Pre-consumer
<b>Packaging</b>	<ul style="list-style-type: none"><li>▪ 1.2 m x 1.2 m (4 ft x 4 ft), 3.6 kg (8 lb)</li><li>▪ 1.2 m x 2.4 m (4 ft x 8 ft), 7.2 kg (16 lb)</li><li>▪ 12.7 mm (0.5 in) thickness, 42 boards per pallet</li></ul>
<b>Shelf Life</b>	N/A

## Storage Conditions

### Exterior/jobsite storage:

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 100 mm (4 in) 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.

**Note:** Do not install damaged or wet boards, always work with dry and undamaged boards. Refer to PIMA Technical Bulletin #109: *Storage and Handling Recommendations for Polyiso Roof Insulation*.

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## TECHNICAL INFORMATION

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Compressive Strength	Grade 1* (551 kPa (80 psi) minimum)	(ASTM D-1621)
Tensile Strength in Flexure	> 95 kPa (> 2000 psf)	(ASTM D-1623)
Dimensional Stability	< 0.5%	(ASTM D-2126)
Thermal Resistance	2.5	(ASTM C-518)
Service Temperature	-73 °C–121 °C (-100 °F– 250 °F)	
Water Absorption	<3%	(ASTM C-209)
Permeability to Water Vapour	85 ng/(pa s m) (1.5 perm)	(ASTM E-96)
Microbiological Resistance	Resistant	(UL 2824)
Reaction to Fire	Flame Spread <sup>1</sup> : 40 – 60* Smoke Development <sup>1</sup> : 50 – 170*	(ASTM E-84)

\*Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of ≤75 and smoke development ≤450 meet code requirements for foam plastic roof insulation. Codes exempt foam plastic insulation when used in FM 4450, UL 1256, ULc S126.

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## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## OTHER DOCUMENTS

### AVAILABILITY

Sarnatherm® Roof Board A-III is available directly from Sika Canada Authorized Applicators when used within a Sika® Sarnafil® Roofing or Waterproofing System. Contact Sika Canada or visit our website at [www.sika.ca](http://www.sika.ca) for further information.

### WARRANTY

Upon successful completion of the installed roof by the Sika Canada Authorized Applicator, Sika Canada can provide a Warranty to the Building Owner via the Authorized Applicator.

## ENVIRONMENT, HEALTH & 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

Sarnatherm® Roof Board A-III is installed by a Sika Authorized Applicator. Sarnatherm® Roof Board A-III may be installed by mechanical attachment to the roof deck with approved fasteners and insulation plates or by attachment with Sarnacol board adhesive depending on project requirements and specifications. Roof boards that have become wet or damaged should be removed and replaced with solid, dry roof boards. Contact Sika Canada – Roofing Technical Department regarding alternative methods of attachment.

## MAINTENANCE

Standard maintenance of Sika Sarnafil® systems should include inspections of flashings, drains, and terminations sealants at least twice a year and after each storm.

## 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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### Other locations

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

### Product Data Sheet

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