



PRODUCT DATA SHEET

SARNATHERM[®] ROOF BOARD A-III

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.

PRODUCT INFORMATION

USES

Used as a lightweight roof board in conventional roof assemblies

AREAS OF APPLICATION

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

FEATURES / BENEFITS

- 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

TESTS

STANDARDS / APPROVALS

- ASTM C1289, Type II, Class 4, Grade 1
- FM 4450 / 4470
- FM 4473 hail rating SH-1
- UL Classified 790
- UL Certified for Canada

PRODUCT DATA

FORM

COMPOSITION

Polyisocyanurate foam core with coated glass facers

COLOR

Off-white core with off white/light tan facers

PACKAGING

- 4 ft x 4 ft (1.2 m x 1.2 m), 8 lbs (3.6 kg)
- 4 ft x 8 ft (1.2 m x 2.4 m), 16 lbs (7.2 kg)
- 0.5 in (12.7 mm) thickness, 42 boards per pallet

STORAGE**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. Refer to PIMA Technical Bulletin #109: *Storage and Handling Recommendations for Polyiso Roof Insulation*.

TECHNICAL DATA**TYPICAL PHYSICAL PROPERTIES¹**

Properties	ASTM Test Method	Results
Compressive Strength, psi (kPa)	D 1621	Grade 1*
Dimensional Stability, % Linear Change	D 2126	< 0.5
Tensile Strength, psf (kPa)	D 1623	> 2000 (> 95)
Water Absorption, %	C 209	< 3
Water Vapor Transmission, perm, (ng/(Pa•s•m ²))	E 96	< 1.5 (85)
Flame Spread	E 84	40-60**
Smoke Development	E 84	50-170**
Service Temperature, °F (°C)	--	-100 to 250 (-73 to 121)
Mold Growth	UL 2824	Resistant
Recycled Content	--	7.4% Pre-consumer
R-Value	C 518	2.5

¹ Physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

* 80 psi (551 kPa) minimum, up to 110 psi (758 kPa)

** 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 or UL 1256.

SYSTEM INFORMATION

INSTALLATION

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 Corporation – Roofing Technical Department regarding alternative methods of attachment.

AVAILABILITY

From Sika Corporation – Roofing Authorized Applications for use within Sarnafil or Sikaplan systems.

MAINTENANCE

Sarnatherm Roof Board A-III requires no maintenance. Areas of frequent rooftop traffic may require protection from damage.

WARRANTY

As a Sika supplied product, Sarnatherm Roof Board A-III is covered under Sika Corporation warranties.

LEGAL NOTES

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at usa.sarnafil.sika.com or by calling 800-451-2504.

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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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