



## PRODUCT DATA SHEET

# Sarnatherm® Roof Board-R

SARNATHERM ROOF BOARD-R IS A LIGHTWEIGHT, HIGH-DENSITY POLYISOCYANURATE ROOF BOARD WITH COATED GLASS FACERS.

### PRODUCT DESCRIPTION

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

### USES

Used as a lightweight roof board in conventional roof assemblies

#### Areas of Application

- New Roofs
- Recover Roofs
- Mechanically Fastened Systems
- Adhered Systems

### CHARACTERISTICS / ADVANTAGES

- Lightweight for easy hoisting, staging and maneuvering
- High impact and flexural strength
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology
- Negligible Global Warming Potential (GWP)
- Zero Ozone Depletion Potential (ODP)

### APPROVALS / STANDARDS

- ASTM C1289, Type II, Class 4, Grade 1
- FM 4450 / 4470
- UL 1256, 790, 263
- UL Certified for Canada
- International Building Code (ICC) Chapter 26, Section 2603, Foam Plastic

## PRODUCT INFORMATION

<b>Chemical Base</b>	Polyisocyanurate foam core with coated glass facers
<b>Recycled Content</b>	2% Pre-consumer recycled content, % by weight
<b>Packaging</b>	4 ft x 4 ft (1.2 m x 1.2 m) 4 ft x 8 ft (1.2 m x 2.4 m) 0.5" (12.7 mm) thickness, 42 sheets per pallet Weight: 0.35 lb/ft <sup>2</sup> (1.71 kg/m <sup>2</sup> ) average
<b>Color</b>	Off-white core with light gray facers
<b>Shelf Life</b>	N/A
<b>Storage Conditions</b>	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" (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 INFORMATION

<b>Compressive Strength</b>	80 psi (551 kPa) minimum	(D-1621)
<b>Flexural Strength</b>	> 2000 psf (95 kPa)	(D-1623)
<b>Dimensional Stability</b>	< 0.5 % Linear Change	(D-2126)
<b>Reaction to Fire</b>	Flame Spread: 25 or Less* Smoke Development: 160 or less* <small>* Flame spread numbers are shown for comparison purposes only and are not intended to represent the performance of Sarnatherm Roof Board-R and related components under actual fire conditions.</small>	(E-84)
<b>Thermal Resistance</b>	2.5 (0.44 m <sup>2</sup> ·K/W) * <small>* At 75°F mean temperature on material conditioned according to PIMA Technical Bulletin No. 101.</small>	(C-518)
<b>Permeability to Water Vapor</b>	< 1.5 perm (85.0 ng/(Pa · s · m <sup>2</sup> ))	(E-96)
<b>Water Absorption</b>	< 3.0 %	(C-209)
<b>Microbiological Resistance</b>	10, no defacement	(D-3273)
<b>Service Temperature</b>	250°F (121°C) maximum	

## APPLICATION INSTRUCTIONS

Sarnatherm Roof Board-R is installed by a Sika Authorized Applicator. Sarnatherm Roof Board-R 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. Cut through the entire thickness of the board when cutting boards to fit. 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.

## MAINTENANCE

Standard maintenance of Sarnafil® or Sikaplan® systems should include regular inspection of flashings, drains and termination sealants at least twice a year and after each storm.

## AVAILABILITY/WARRANTY

### Availability

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

## Warranty

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

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

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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