

PRODUCT DATA SHEET

Sarnatherm® ISO

Rigid closed cell polyisocyanurate insulation board

PRODUCT DESCRIPTION

Sarnatherm® ISO is a rigid closed cell polyisocyanurate insulation board with fiber reinforced felt facers, and 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.

AREAS OF APPLICATION

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

CHARACTERISTICS / ADVANTAGES

- Manufactured with no CFCs or HCFCs
- Virtually no GWP (Global Warming Potential)
- Zero ODP (Ozone Depletion Potential)
- Compatible with Sarnafil and Sikaplan membranes

APPROVALS / STANDARDS

- ASTM C 1289 Type II, Class 1, Grade 2 (20 psi)
- ASTM C 1289 Type II, Class 1, Grade 3 (25 psi)
- UL 1256, 790, 263
- FM 4450, 4470
- Miami-Dade County
- Florida Building Code

PRODUCT INFORMATION

Chemical Base	Polyisocyanurate foam core with fiber reinforced felt facers		
Packaging	<ul style="list-style-type: none"> 4 ft x 4 ft (1.2 m x 1.2 m) 4 ft x 8 ft (1.2 m x 2.4 m) Various Thicknesses 		
Color	Off-white core with black facer		
Shelf Life	N/A		
Storage Conditions	<p>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: <i>Storage and Handling Recommendations for Polyiso Roof Insulation</i>.</p>		
Thickness	Thickness	LTTR Value*	Flute Spanability
	1.0" (25 mm)	5.7	2-5/8"
	1.5" (38 mm)	8.6	4-3/8"
	1.75" (44 mm)	10.0	4-3/8"
	1.8" (46 mm)	10.3	4-3/8"
	2.0" (51 mm)	11.4	4-3/8"
	2.5" (64 mm)	14.4	4-3/8"
	2.6" (66 mm)	15.0	4-3/8"
	3.0" (76 mm)	17.4	4-3/8"
	3.1" (78 mm)	18.0	4-3/8"
	3.5" (89 mm)	20.5	4-3/8"
	3.8" (97 mm)	22.3	4-3/8"
	4.0" (102 mm)	23.6	4-3/8"
	4.25" (108 mm)	25.2	4-3/8"
	4.3" (109 mm)	25.5	4-3/8"
	4.5" (114 mm)	26.8	4-3/8"

* LTTR (long term thermal resistance) values are based on ASTM C 1289. Test samples were third-party selected and tested by an accredited material testing laboratory. The LTTR results were reviewed by FM Global and certified by the PIMA Quality Mark Program.

TECHNICAL INFORMATION

Compressive Strength	20 psi (138 kPa) 25 psi (172 kPa)	(ASTM D-1621)
Dimensional Stability	< 2 %	(ASTM D-2126)
Reaction to Fire	Flame Spread: 25 – 60 * Smoke Development: 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 or UL 1256.	
Permeability to Water Vapor	< 1.5 perm (85.5 ng/(Pa·s·m ²))	(ASTM E-96)
Water Absorption	< 1.5 %	(ASTM C-209)
Service Temperature	-100 to 250°F (-73 to 121°C)	

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.

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 in compliance with Sika requirements, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

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.

APPLICATION INSTRUCTIONS

Sarnatherm® ISO is installed by a Sika Authorized Applicator. Sarnatherm may be installed by mechanical attachment to the roof deck with Sarnafasteners and Sarnaplates, by attachment with Sarnacol board adhesive, or by hot asphalt depending on project requirements and specifications. Roof insulation which has become wet or damaged should be removed and replaced with solid, dry insulation. Contact Sika Corporation – Roofing Technical Department regarding alternative methods of attachment.

MAINTENANCE

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

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OTHER RESTRICTIONS

See Legal Disclaimer.

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 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.

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 the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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