



PRODUCT DATA SHEET

Sarnatherm® ISO

RIGID CLOSED CELL POLYISOCYANURATE INSULATION BOARD

PRODUCT DESCRIPTION

Sarnatherm® ISO is a rigid closed cell polyisocyanurate insulation board with fibre-reinforced felt facers, suitable for use in new construction and re-roofing with Sarnafil® or Sikaplan® membranes.

WHERE TO USE

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 / CERTIFICATES

- ASTM C 1289 Type II, Class 1, Grade 2 (138 kPa (20 psi))
- ASTM C 1289 Type II, Class 1, Grade 3 (172 kPa (25 psi))
- ULC S704, Type 2, Class 3 (138 kPa (20 psi))
- ULC S704, Type 3, Class 3 (172 kPa (25 psi))
- UL 1256, 790, 263
- ULC S126, S101, S107
- FM 4450, 4470
- Miami-Dade County
- Florida Building Code
- CSA-A123.21

PRODUCT INFORMATION

Composition / Manufacturing	Polyisocyanurate foam core with fibre reinforced felt facers
Packaging	1.2 m x 1.2 m (4 ft x 4 ft) 1.2 m x 2.4 m (4 ft x 8 ft)
Shelf Life	Not applicable
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 102 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. Refer to PIMA Technical Bulletin 109: <i>Storage and Handling Recommendations for Polyiso Roof Insulation</i> .

Thickness

LTTR Value*	Thickness	Flute Spanability
5.7	25.4 mm (1.0")	50.8 mm (2-5/8")
8.6	38.1 mm (1.5")	101.6 mm (4-3/8")
10.3	45.72 mm (1.8")	101.6 mm (4-3/8")
11.4	50.8 mm (2.0")	101.6 mm (4-3/8")
14.4	63.5 mm (2.5")	101.6 mm (4-3/8")
15.0	66.04 mm (2.6")	101.6 mm (4-3/8")
17.4	76.2 mm (3.0" **)	101.6 mm (4-3/8")
20.5	88.9 mm (3.5" **)	101.6 mm (4-3/8")
23.6	101.6 mm (4.0" **)	101.6 mm (4-3/8")

*LTTR Values were determined in accordance with CAN/ULC-S770-09. 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.

**Use multiple layers when the total desired or specified R-value requires an insulation thickness greater than 68.58 mm (2.7 in).

TECHNICAL INFORMATION

Compressive Strength	138 kPa (20 psi) 172 kPa (25 psi)	(ASTM D1621)
Dimensional Stability	< 2 %	(ASTM D2126)
Service Temperature	-73 - 121°C (-100 - 250°F)	
Water Absorption	< 1.5 %	(ASTM C209)
Permeability to Water Vapour	< 85.5 ng/(Pa·s·m²)), (1.5 perm)	(ASTM E84)
Reaction to Fire	Flame Spread Smoke Development	25-60** 50-170** (ASTM E84) 10 min.

**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.

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® ISO 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 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

This product is a manufactured article that does not require Safety Data Sheets to be marketed, transported or applied at the jobsite, according to the Hazardous Product Act - Section 2. Based on our current knowledge, this product is not classified as dangerous and does not contain any hazardous materials. Always wear personal protective equipment (including safety goggles and gloves) to manipulate and install Sika® products.

Product Data Sheet

Sarnatherm® ISO

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APPLICATION INSTRUCTIONS

Sarnatherm® ISO is installed by a Sika Canada Authorized Applicator. Sarnatherm® ISO may be installed by mechanical attachment to the roof deck with Sarnafasteners and Sarnaplates and/or by attachment with Sarnacol board adhesive 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 Canada for alternative methods of attachment.

MAINTENANCE

As a prudent preventative measure, Sika Canada recommends that the Owner or that the Owner's designated representative inspect the installed roof system for damage, flashings, plugged drains, weathered sealants, etc. 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

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