

PRODUCT DATA SHEET

Sarnatherm® XPS tapered

SARNATHERM XPS IS A RIGID EXTRUDED POLYSTYRENE INSULATION BOARD

PRODUCT DESCRIPTION

Sarnatherm® XPS tapered is a rigid extruded polystyrene insulation board that can be used in either a Sika roofing or waterproofing application.

USES

Wherever insulation is required within a conventional roof assembly and waterproofing systems.

Areas of Application

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

CHARACTERISTICS / ADVANTAGES

- Low water absorption

APPROVALS / STANDARDS

- ASTM C 578, Type VI, VII, V
- CAN/ULC S701, Type 4

PRODUCT INFORMATION

Chemical Base	Polystyrene foam core with a smooth skin surface on the face and back surfaces																								
Packaging	<ul style="list-style-type: none">▪ Various Thicknesses▪ Sarnatherm per bundle depends on thickness																								
Shelf Life	N/A																								
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" (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.																								
Thickness	<table><thead><tr><th colspan="3">Thermal Data*</th></tr><tr><th>Thickness</th><th>R-Value</th><th>C-Value</th></tr></thead><tbody><tr><td>1.0" (25 mm)</td><td>5.0</td><td>0.200</td></tr><tr><td>1.5" (38 mm)</td><td>7.5</td><td>0.133</td></tr><tr><td>2.0" (51 mm)</td><td>10.0</td><td>0.100</td></tr><tr><td>2.5" (64 mm)</td><td>12.5</td><td>0.080</td></tr><tr><td>3.0" (76 mm)</td><td>15.0</td><td>0.067</td></tr><tr><td>4.0" (102 mm)</td><td>20.0</td><td>0.050</td></tr></tbody></table> <p>*Not all available thicknesses are listed.</p>	Thermal Data*			Thickness	R-Value	C-Value	1.0" (25 mm)	5.0	0.200	1.5" (38 mm)	7.5	0.133	2.0" (51 mm)	10.0	0.100	2.5" (64 mm)	12.5	0.080	3.0" (76 mm)	15.0	0.067	4.0" (102 mm)	20.0	0.050
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TECHNICAL INFORMATION

Compressive Strength	40 psi (275 kPa)	(ASTM D-1621)
Flexural Strength	60 psi (480 kPa)	(ASTM C-203)
Dimensional Stability	1.5 % 3.5 x 10 ⁻⁵ in/(in·°F) (6.3 x 10 ⁻² mm/(m·°C))	(ASTM D-2126)
Reaction to Fire	Flame Spread ¹ : 5 Smoke Developed: 165 <small>¹ This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.</small>	(ASTM E-84)
Permeability to Water Vapor	1.5 perm (90 ng/(Pa·s·m ²))	(ASTM E-96)
Water Absorption	0.1 %	(ASTM C-272)
Service Temperature	165°F (74°C)	

APPLICATION INSTRUCTIONS

Sarnatherm® XPS tapered is installed either under or over the Sika roofing/waterproofing membrane depending on the system design. Overburden is utilized to hold the insulation in place in a waterproofing application. Polystyrene should not come in contact with PVC. Always place a separation layer such as Sarnafelt NWP between the Sarnatherm® XPS tapered and the membrane in both roofing and waterproofing applications. During installation in hot, sunny weather, protect the insulation with a white covering to prevent excessive heat build-up and potential warping of the

insulation boards.

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.

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 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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