

PRODUCT DATA SHEET

SARNATHERM[®] XPS - TAPERED

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

PRODUCT INFORMATION

USES

Wherever insulation is required within a conventional roof assembly.

AREAS OF APPLICATION

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

FEATURES / BENEFITS

- Low water absorption
- Compatible with Sarnafil[®] and Sikaplan[®] membranes

TESTS

STANDARDS / APPROVALS

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

PRODUCT DATA

FORM

COMPOSITION

Polystyrene foam core with a smooth skin surface on the face and back surfaces

PACKAGING

- Various Thicknesses
- Sarnatherm per bundle depends on thickness

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 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 PROPERTIES⁽¹⁾

Properties	ASTM Test Method	Results
Thermal Resistance per in. (25 mm) @75°F (24°C), ft ² .h.°F/Btu (m ² .°C/W), min	C 518, C 117	5.0 (0.88)
Compressive Strength, psi (kPa), min ⁽²⁾	D 1621	40 (275)
Flexural Strength, psi (kPa), min	C 203	60 (480)
Water Absorption, % by volume, max	C 272	0.1
Permeability, perms (ng/(Pa•s•m ²)) ⁽³⁾	E 96	0.8 (35)
Maximum Use Temperature, °F (°C)	--	165 (74)
Coefficient of Linear Thermal Expansion, in/in.°F (mm/m.°C)	--	3.5 x 10 ⁻⁵ (6.3 x 10 ⁻²)
Flame Spread ⁽⁴⁾	E 84	5
Smoke Developed	E 84	165

(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.

(2)Value at yield or 5% whichever occurs first.

(3)Water vapor permeance varies with product type and thickness. Values are based on the desiccant method and they apply to insulation 1 in (25 mm) or greater in thickness.

(4)This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

THERMAL DATA*			
Thickness		R-Value	C-Value
in	mm		
1.0	25	5.0	0.200
1.5	38	7.5	0.133
2.0	51	10.0	0.100
2.5	64	12.5	0.080
3.0	76	15.0	0.067
4.0	102	20.0	0.050

*Not all available thicknesses are listed

SYSTEM INFORMATION

INSTALLATION	<p>Sarnatherm XPS - Tapered is installed either under or over the Sika roofing/waterproofing membrane depending on the system design.</p> <p>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.</p> <p>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.</p>
AVAILABILITY	From Sika Corporation – Roofing Authorized Applications for use within Sarnafil or Sikaplan systems.
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.
WARRANTY	As a Sika supplied product, Sarnatherm XPS - Tapered is covered under Sika Corporation warranties.
LEGAL NOTES	<p>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.</p> <p>Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at usa.sarnafil.sika.com or by calling Sika's Technical Service Department at 800-451-2504. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.</p> <p>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.</p> <p>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.</p>

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