



# PRODUCT DATA SHEET

## SARNATHERM<sup>®</sup> MINERAL WOOL

### DUAL DENSITY INSULATION

Sarnatherm Mineral Wool Dual Density (MWDD) Insulation is a rigid, dimensionally stable, mineral wool based insulation board used within a mechanically fastened roof system. It is intended for commercial and industrial roof insulation applications. It is suitable for both new building and re-roofing applications.

#### PRODUCT INFORMATION

##### 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

##### FEATURES / BENEFITS

- Dimensionally stable
- Low moisture absorption
- Non-corrosive
- Stable R-value
- Fire resistant
- Excellent acoustical properties
- Made from natural & recycled materials
- Does not off gas
- Will not warp or cup

##### TESTS

##### STANDARDS / APPROVALS

- UL 1256, 790, 263
- FM 4450, 4470
- Miami-Dade County
- State of Florida

#### PRODUCT DATA

##### FORM

##### COMPOSITION

Mineral wool fiber made from basalt rock and slag

##### PACKAGING

- 48 in x 48 in (1.2 m x 1.2 m)
- Available in 2 - 6 in thickness with ½ in. increments

**STORAGE****STORAGE CONDITIONS**

The factory packaging is intended for the protection of the insulation boards during transit and is not intended for job site protection against the elements. When product is stored outdoors, the plastic shroud must be slit and the insulation protected by a waterproof, breathable covering such as a tarpaulin. Insulation must be stored minimum 4 in (102 mm) above ground and kept on a solid flat surface.

**TECHNICAL DATA****TYPICAL PHYSICAL PROPERTIES\***

Properties	Test Method	Conditions	Results
Compressive Strength, psi (kPa)	ASTM C165	at 10%	11 (75)
	--	at 25%	15 (105)
Point Load, psi (kPa)	EN 12340	at 5 mm comp.	30 (205)
Permeability, perm, (ng/(Pa•s•m <sup>2</sup> ))	ASTM E96	dessicant method	41 (2330)
Water Absorption, %	ASTM C209	--	< 1.0
Density Top Layer, lbs/ft <sup>3</sup> (kg/m <sup>3</sup> )	ASTM C612-09	actual	13.75 (220)
Density Bottom Layer, lbs/ft <sup>3</sup> (kg/m <sup>3</sup> )	ASTM C612-09	actual	10.00 (160)
Dimensional Stability, °F (°C)	ASTM D2126	97% RH for 7 days	0.0% @ 158 (70)
Hail Performance	FM 4470	--	Class 1 – SH (severe hail)
	FM 4473	--	Class 4
	UL 2218	--	Class 4
Fire Performance	FM 4450/4470	--	Class 1
	UL 790	--	Class A
	ASTM E84 (UL 723)	--	0 flame spread/smoke

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

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## SYSTEM INFORMATION

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<b>INSTALLATION</b>	Sarnatherm MWDD is installed by a Sika Authorized Applicator. Sarnatherm MW may be installed either by mechanical attachment to the roof deck with Sarnafasteners and Sarnaplates, by full attachment with low rise sprayed urethane foam or hot asphalt, or partial attachment with foam adhesive (options depend on deck type and Sika roofing system to be installed). Contact Sika Corporation – Roofing regarding alternative methods of attachment.
<b>AVAILABILITY</b>	From Sika Corporation – Roofing Authorized Applications for use within Sarnafil or Sikaplan systems.
<b>MAINTENANCE</b>	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.
<b>WARRANTY</b>	As a Sika supplied product, Sarnatherm a MWDD is covered under Sika Corporation warranties.

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### LEGAL NOTES

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](http://usa.sarnafil.sika.com) or by calling 800-451-2504.

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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.

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