



PRODUCT DATA SHEET

SARNATHERM[®] 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 ²))	ASTM E96	dessicant method	41 (2330)
Water Absorption, %	ASTM C209	--	< 1.0
Density Top Layer, lbs/ft ³ (kg/m ³)	ASTM C612-09	actual	13.75 (220)
Density Bottom Layer, lbs/ft ³ (kg/m ³)	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.

SYSTEM INFORMATION

INSTALLATION	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.
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 a MWDD is covered under Sika Corporation warranties.

LEGAL NOTES

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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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