

PRODUCT DATA SHEET

Sarnatherm[®]-52 Mineral Wool

HIGH COMPRESSION STRENGTH MINERAL WOOL THERMAL INSULATION BOARD

DESCRIPTION

Sarnatherm[®]-52 Mineral Wool is a rigid, dimensionally stable, mineral wool based insulation board used for most types of roof decks both mechanically fastened and bonded solutions. This is possible due to its high delamination value. It is intended for commercial and industrial roof insulation applications. It is suitable for both new building and re-roofing applications. Sarnatherm[®]-52 Mineral Wool roofing boards deliver the combination of mechanical strength, lighter weight and resistance to fire.

USES

As part of Sarnafil[®] PVC or FPO roofing system, wherever insulation is required in roof assembly to achieve specified thermal resistance.

AREAS OF APPLICATION

- New concrete roofs or corrugated metal roofs
- Refurbishment of roofs
- Mechanically attached systems

PRODUCT INFORMATION

Chemical Base

Mineral wool fibre made from basalt rock, slab form

Packaging

Boards are palletised and wrapped in polyethylene sheets for ease of handling, transportation, storage and identification. Products should be stored indoors or under waterproof covering.

Thickness(mm)	Dimension	m ² /bag
50	1000 mm x 600 mm	1.8

For availability of additional thickness and sizes, please contact our nearest Sales Office.

Shelf Life

The product does not expire if stored as per storage conditions.

Storage Conditions

The product must be stored in original, unopened and undamaged sealed packaging, in dry conditions. The packaging of Sarnatherm®-52 Mineral Wool shall not be considered adequate for long term outside protection. Ideally, boards shall be stored inside a building. If however, outside storage cannot be avoided the boards shall be stacked clear of the ground and covered with a polythelene sheet or weatherproof tarpaulin. Boards that have been allowed to get wet must not be used.

Density

~160 kg/m³ (Nominal)

Product with lower and higher densities also possible based on MOQ and availability.

Compressive Strength

Compression Strength	> 60 kPa at 10 % deformation	(EN 826)
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Point Load	> 500 N at 5 mm deformation	(EN 12430)
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Delamination Strength	> 7.5 kPa	(EN 1607)
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Reaction to Fire

Class A1, Non-Combustible	(EN 13501-1)
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Thermal Conductivity

~0.037 W/m·K at +20 °C	(ASTM C518)
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Water Absorption

Short term water absorption	< 0.5 kg/m ²	(EN 1609)
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Moisture absorption (by volume)	< 1 %	(ASTM C1104)
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SYSTEM INFORMATION

System Structure

Ancillary / complimentary products and system components

- Sarnafil® S and G membranes
- Sarnafast® range of fasteners and fixings
- Sarnavap® vapour control layers
- Sikalastic® liquid applied membranes
- SikaBit® and Sika® WP Sheid bituminous membranes

Compatibility

Sarnatherm®-52 Mineral Wool is compatible with Sarnafil® PVC and FPO single ply membranes. No additional separation layer is required, when Sarnafil® membrane is applied over the board surface.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. It shall be clean, dry and free of grease and dust.

APPLICATION METHOD / TOOLS

Sarnatherm®-52 Mineral Wool may be installed by mechanical attachment to the roof deck with Sarnafast or alternative methods depending on deck type and Sika® Roofing system to be installed. Install Sarnatherm®-52 Mineral Wool slabs in formation without gap. In case of double layer installation, arrange the slabs staggered. With corrugated steel deck, the slabs have to be installed with the long side perpendicular to the course of corrugations. The insulation slabs have to be installed in dry weather conditions.

For detailed guidance, contact Sika® Technical Service team.

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 and prior to rains.

LIMITATIONS

Sarnatherm®-52 Mineral Wool are not suitable for accessible roofs for example, intensive planting, roof terraces or below directly assembled machines or gadgets.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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