Product Data Sheet
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Roofing

Decotherm®

High performance PIR Insulation Board

Product Description	Decotherm® Insulation is faced on both sides with a wet lay coated glass fibre tissue autohesively bonded to the insulation core during manufacture. The core of Decotherm® Insulation is a high performance CFC / HCFC – free rigid polyisocyanurate (PIR) insulant of typical density 32 kg/m³. Decotherm® Insulation is manufactured without the use of CFCs / HCFCs and has zero ozone depletion potential. Decotherm® also has a low global warming potential (GWP).
Uses	Decotherm® Insulation is for use in the Sika Liquid Plastics Cold Fusion Bonded Up Roofing System.

Product Data

Form

Appearance	Light beige faced boards
Board size	1.2m x 0.6m (for adhered and mechanically fixed built up roofing systems) 2.4m x 1.2m (for mechanically fixed built up roofing systems)
Thickness	**1.2 x 0.6m Board Size** 25, 40, 50, 60, 70, 75, 80, 90, 100, 120, 130mm Other thicknesses are available subject to quantity **2.4m x 1.2m Board Size** 110, 120, 125, 130, 135, 140, 150mm
Packaging	Decotherm is supplied in labelled packs shrink wrapped in recyclable polythene.
Thermal Conductivity	0.026W/mK for <80mm 0.025W/mK for ≥80mm and <120mm 0.024W/mK for ≥120mm
Insulation Compressive Strength	150 kPa at 10% compression BS EN 826:1996
	Tapered Decotherm insulation is also available. Please consult Sika Liquid Plastics' Technical Services.

Storage

Storage Conditions	The packaging of Decotherm should not be considered adequate for long term outside protection. Ideally, boards should be stored inside a building. If however, outside storage cannot be avoided the boards should be stacked clear of the ground and covered with a polythene sheet or weatherproof tarpaulin. Boards that have been allowed to get wet must not be used.

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System Information

System Structure

Built-Up Roofing System over Existing Waterproofing

Substrate	Prepare substrate in accordance with the Decostik® Foaming Adhesive technical datasheet
Insulation	Decotherm Insulation bonded with Sika Liquid Plastics Decostik® Foaming Adhesive please see the technical datasheet for further information
Carrier Membrane	Carrier Membrane SA with Primer 600 please see the technical datasheet for further information
Waterproofing System	Decaflex 10, Decothane Omega 15, Gamma 20 and Delta 25 - please see the Decaflex, Decothane Base Coat and Decothane Top Coat Technical Datasheet for further information.

Built-Up Roofing System for Strip Back or New Build (Adhered System)

Substrate	Prepare substrate in accordance with the Primer 600 technical datasheet
Vapour Control Layer	S-Vap 5000E SA please see the technical datasheet for further information
Insulation	Decotherm Insulation bonded with Sika Liquid Plastics Decostik® SP please see the technical datasheet for further information
Carrier Membrane	Carrier Membrane SA with Primer 600 please see the technical datasheet for further information
Waterproofing System	Decaflex 10, Decothane Omega 15, Gamma 20 and Delta 25 - please see the Decaflex, Decothane Base Coat and Decothane Top Coat Technical Datasheet for further information.

Built-Up Roofing System for Strip Back or New Build (Mechanically Fixed System)

Substrate	Prepare substrate to be clean, dry and level
Vapour Control Layer	S-Vap 500E please see the technical datasheet for further information

Insulation	Decotherm Insulation fixed with the appropriate Sika Liquid Plastics Mechanical Fasteners please see the technical datasheet for further information
Carrier Membrane	Carrier Membrane SA with Primer 600 please see the technical datasheet for further information
Waterproofing System	Decaflex 10, Decothane Omega 15, Gamma 20 and Delta 25 - please see the Decaflex, Decothane Base Coat and Decothane Top Coat Technical Datasheet for further information.

Application Method:

Boards can be cut by using either a fine toothed saw, or by scoring with a sharp knife, snapping the board over a straight edge and then cutting the facing on the other side. Ensure accurate trimming to achieve close–butting joints and continuity of insulation at details.

Insulation boards should always be laid break–bonded, either with their long edges at right angles to the edge of, or diagonally across the roof, and with joints lightly butted. On profiled metal decks, the boards should either be laid with their long edges at right angles to the trough openings, or diagonally across the corrugation line, and with joints lightly butted. In all cases there should be no gaps between boards, at abutments or other details.

A night seal must be formed in accordance with good roofing practice at the completion of each day's work, or whenever work is interrupted for extended periods of time. A night seal must be made in order to prevent water penetration into the roof construction.

Notes on Application / Limits

Installation works to be carried out only by specialist roofing contractors.
Temperature limits will depend on waterproofing membrane installation limits. Use of some ancillary products, e.g. adhesives is limited to temperatures above +5 °C.
Please observe information given by Product Data Sheets.

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Value Base

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.

Ecology, Health and Safety Information

The product does not fall within the EU-regulation of hazardous goods.
As a result, a material safety data sheet following EU-Guideline 91/155 EWG is not needed to bring the product to the market, transport or use it.
The product does not damage the environment when used as specified.

Protective Measures

Regulatory Safety requirements must be observed

Disposal

The material is recyclable. Any disposal must be in accordance with regulatory guidelines.

Transportation Class

The product is not classified as hazardous good for transport.

General Information

Disclaimer

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.

Specification Assistance

NBS is the industry standard specification system, which allows architects, specifiers and engineers to insert clauses into specifications by manufacturer and product, making the process quicker and more efficient. We are members of NBS Plus and therefore detailed up-to-date product information is readily available to create accurate specifications.

Contact Details

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