

# Decotherm<sup>®</sup>

## High performance PIR Insulation Board

### Product Description

Decotherm<sup>®</sup> 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<sup>®</sup> Insulation is a high performance CFC / HCFC – free rigid polyisocyanurate (PIR) insulant of typical density 32 kg/m<sup>3</sup>.

Decotherm<sup>®</sup> Insulation is manufactured without the use of CFCs / HCFCs and has zero ozone depletion potential. Decotherm<sup>®</sup> also has a low global warming potential (GWP).

### Uses

Decotherm<sup>®</sup> Insulation is for use in the Sika Liquid Plastics Cold Fusion Bonded Built Up Roofing System.

### Product Data

#### Test

#### Approvals / Standards

- British Board of Agrément (BBA) certified No. 14/5147 BBA Certificate No. 06/4359
- CE Marked - Tested in accordance with EN 13165:2012

#### 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.

Roofing



## 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.

## System Information

### System Structure

#### Built-Up Roofing System over Existing Waterproofing

|                             |  |
|-----------------------------|--|
| <b>Substrate</b>            | Prepare substrate in accordance with the Decostik® Foaming Adhesive technical datasheet  |
| <b>Insulation</b>           | Decotherm Insulation bonded with Sika Liquid Plastics Decostik® Foaming Adhesive please see the technical datasheet for further information  |
| <b>Carrier Membrane</b>     | Carrier Membrane SA with Primer 600 please see the technical datasheet for further information   |
| <b>Waterproofing System</b> | Decaflex 10, Decothane Omega 15, Gamma 20 and Delta 25 - please see the Decaflex, Decothane Base Coat Decothane Top Coat Sikalastic-618 Sikalastic-625 and Decothane Ultra Technical Datasheets for further information. |

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

|                             |  |
|-----------------------------|--|
| <b>Substrate</b>            | Prepare substrate in accordance with the Primer 600 technical datasheet  |
| <b>Vapour Control Layer</b> | S-Vap 5000E SA please see the technical datasheet for further information  |
| <b>Insulation</b>           | Decotherm Insulation bonded with Sika Liquid Plastics Decostik® SP please see the technical datasheet for further information  |
| <b>Carrier Membrane</b>     | Carrier Membrane SA with Primer 600 please see the technical datasheet for further information   |
| <b>Waterproofing System</b> | Decaflex 10, Decothane Omega 15, Gamma 20 and Delta 25 - please see the Decaflex, Decothane Base Coat Decothane Top Coat Sikalastic-618 Sikalastic-625 and Decothane Ultra Technical Datasheets for further information. |

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

|                             |  |
|-----------------------------|--|
| <b>Substrate</b>            | Prepare substrate to be clean, dry and level   |
| <b>Vapour Control Layer</b> | S-Vap 500E please see the technical datasheet for further information  |
| <b>Insulation</b>           | Decotherm Insulation fixed with the appropriate Sika Liquid Plastics Mechanical Fasteners please see the technical datasheet for further information   |
| <b>Carrier Membrane</b>     | Carrier Membrane SA with Primer 600 please see the technical datasheet for further information   |
| <b>Waterproofing System</b> | Decaflex 10, Decothane Omega 15, Gamma 20 and Delta 25 - please see the Decaflex, Decothane Base Coat Decothane Top Coat Sikalastic-618 Sikalastic-625 and Decothane Ultra Technical Datasheets 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.

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**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.

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**Protective Measures** Regulatory Safety requirements must be observed

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

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**Transportation Class** The product is not classified as hazardous goods for transport.

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## General Information

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**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.

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**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.

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Understanding Roofing