

Eco Inverted Roof Board

High performance CO₂ Blown, CFC / HCFC free extruded polystyrene insulation

Product Description Sika Liquid Plastics' Eco Inverted Roof Board is a high performance rigid extruded polystyrene insulant of typical density 30 kg/m³, with a smooth, dense skin on both faces. Eco Inverted Roof Board is manufactured using CO₂ as the blowing agent and has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP).

Uses Eco Inverted Roof Board is for use as the insulation in the Sika Liquid Plastics Inverted Roof System.

Product Data

Form

Appearance Grey or Blue
Rebated edge

Board size 1.2m x 0.6m

Thickness 50, 60, 80, 100, 120, 140 mm
Other thicknesses are available subject to quantity

Packaging Eco Inverted Roof Board is supplied in labelled packs shrink wrapped in polythene

Thermal Conductivity 0.036 W/m.K (thicknesses 60mm - < 100mm)
0.038 W/m.K (thicknesses 100mm – 160mm)
0.040 W/m.K (thicknesses > 160mm)

For detailed U-value calculations in accordance with Annex D to BS EN ISO 6946:1997, please consult Sika Liquid Plastics Technical Services.

Insulation Compressive Strength > 300 kPa at 10% compression BS EN 826:1996

Water vapour resistivity > 825 MN.s/g.m EN 12086:1997

Fire Performance When the boards are used in the inverted roof concept and ballasted with aggregate (minimum depth of 50 mm) the roof may be considered to be of designation AA (low vulnerability in Scotland) and therefore meets or satisfies the requirements of the national Building Regulations.

Storage

Roofing



Product Data Sheet

Edition 11.2011
 Identification no.
 Version no. 01

Storage Conditions

The recyclable packaging for Eco Inverted Roof Board should not be considered adequate for long term outside protection. Ideally boards should be stored inside a building. Eco Inverted Roof Board should be stored flat in ventilated areas and protected generally from accidental damage, contact with volatile solvents, flames and extended exposure to UV and sunlight. If stored outside for more than a few weeks, boards/packs must be covered with a pale pigmented plastic sheet. Eco Inverted Roof Board should not be left in the sun, covered by either a transparent or a dark plastic sheet, since in both cases, board temperatures can build up to a level hot enough to appreciably alter their dimensions or warp them.

System Information**System Structure****Inverted Roof System:**

Substrate Preparation	Substrate must be prepared in accordance with the Sika Liquid Plastics' Decostik® Technical Datasheet.
Bonded Preparatory Layer	Carrier Membrane fully bonded with Sika Liquid Plastics' Decostik® at a minimum rate of 1L/m ² . Side overlaps are to be 75mm and end overlaps 100mm, all to be sealed with the adhesive.
Waterproofing System	Inverted Roof System - please see the Decothane Root Resistant Base Coat and Decothane Root Resistant Top Coat Technical Datasheet for further information.
Eco Inverted Roof Board	Please see application method section for more information
Ballast	Install Min fx Separation Layer or Filtration Layer in accordance with the Technical Datasheet and ballast as required

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Application Method:

The Decothane Root Resistant waterproofing membrane must be fully cured before the Inverted Roof Insulation boards are installed. See the Decothane Root Resistant Top Coat product data sheet for information on curing times.

Cutting should be carried out using a fine toothed saw, or by scoring with a sharp knife and snapping the board over a straight edge and cutting the facing on the other side. Ensure accurate trimming to achieve close butting joints and continuity of insulation.

Insulation boards should always be loose-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. There should be no gaps at abutments.

If two or more layers of insulation are required, they should be horizontally offset relative to each other so that, as far as possible, the board joints in any two adjacent layers do not coincide with each other. The thicker insulation board must always be installed first.

The boards must be ballasted as soon as possible. A suitable separation layer such as Min fx or Filtration Layer should be used above the insulation before ballast is applied. For detailed installation information, please refer to the project specific Sika Liquid Plastics Specification.

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.

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