

PRODUCT DATA SHEET

Eco Inverted Roof Board

HIGH PERFORMANCE CO₂ BLOWN, CFC/HCFC FREE EXTRUDED POLYSTYRENE INSULATION

PRODUCT DESCRIPTION

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.

CHARACTERISTICS / ADVANTAGES

- High performance rigid extruded polystyrene insulation - thermal conductivities as low as 0.02 W/mK
- Protects waterproofing membrane
- Minimal water absorption
- High compressive strength
- Withstands freeze/thaw cycling
- Compatible with green roof systems
- Resistant to the passage of water vapour
- Easy to handle and install
- Ideal for new build and refurbishment
- Non-deleterious material
- Manufactured with a blowing agent that has zero ODP

APPROVALS / STANDARDS

- CE Marked - Tested in accordance with EN 13164

PRODUCT INFORMATION

Packaging	Sika Liquid Plastics Eco Inverted Roof Board is supplied in labelled packs shrink wrapped in polythene
Appearance / Colour	Grey or Blue Rebated edge
Shelf Life	Unlimited shelf life when stored as per instructions
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.
Dimensions	1.2m x 0.6m

Thickness	50, 60, 80, 100, 120, 140 mm Other thicknesses are available subject to quantity	
Effective Thickness	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.	
Resistance to Traffic Load	> 300 kPa at 10% compression	BS EN 826:1996
Reaction to Fire	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.	

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The waterproofing membrane must be fully cured before the Eco Inverted Roof Board Insulation boards are installed.

APPLICATION METHOD / TOOLS

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.

VALUE BASE

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

A Safety Datasheet following EC-REgulation 1907/2006, Article 31 is not needed to bring the product to the market, to transport or to use it. The product does not damage the environment when used as specified.

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.

TECHNICAL ENQUIRIES

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