

EvaTherm F – Insulation for warm flat roofs (fixed applications)

EvaTherm F insulation is a high performance rigid polyisocyanurate (PIR) foam board for use in warm flat roofs under mechanically fixed single-ply membrane waterproofing systems.

Description: EvaTherm F insulation is a closed cell, CFC and HCFC-free (zero ozone depletion), rigid polyisocyanurate foam core faced, both sides, with a multi-layer coated aluminum foil. It has an exceptionally low thermal conductivity of 0.022 W/mK.



Benefits of EvaTherm F warm flat roof insulation boards

- Wider choice:** EvaTherm F insulation, is available in a wide range of thicknesses which can help reduce the amount of insulation required whilst still ensuring compliance with the latest BREEAM / Code for Sustainable Homes standards and the latest 2010 Part L building regulations.
- Quality:** Outstanding product quality manufactured to ISO 9001 Quality Systems. Ozone friendly.
- Zero ozone depletion potential:** Low thermal conductivity. The declared thermal conductivity value of 0.022 W/mK is some 30% more efficient than most other insulation materials.
- Compatibility:** Fully compatible with most synthetic (PVC, EPDM etc) and bitumen based single-ply membrane waterproofing systems.
- Warm roof construction:** No requirement for roof ventilation and inherently safe from harmful interstitial condensation.
- Reduced risk of condensation:** Condensation within the roof structure is avoided as it is maintained at the same temperature as the inside of the building.
- Handling:** EvaTherm F boards are lightweight yet tough and resilient. The boards are easily cut using a knife or fine-toothed saw.
- Durability:** EvaTherm F boards are rot-proof, durable and maintenance free. All of our products carry the CE Mark to show compliance with the harmonised European Standard BS EN 13165.

Product Features

Use(s):

Flat Roofs

Thermal Conductivity:

0.022 W/mk

Compressive Strength:

150 kPa

Facing(s) – Top & Bottom:

Multi-Layer Coated Aluminium Foil

Material Core:

**CFC & HCFC Free
(Zero ODP & GWP <5)
Rigid PIR Foam**

Standard Board Size:

2400mm x 1200mm

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- **Waterproofing Systems:** EvaTherm F boards are compatible with most mechanically fixed and loose-laid and ballasted synthetic (PVC, EPDM etc) and bitumen based single-ply membrane waterproofing systems.
- **Condensation:** The requirement for a vapour control layer must be assessed with reference to BS 5250 and BS 6229. If required, a minimum 1000g polythene sheet should be used.
- **Roof Loading:** EvaTherm F boards are suitable for loads associated with the pedestrian maintenance traffic on the roof; for areas of heavier pedestrian traffic extra precautions should be taken such as the use of specially designed walkways (consult the membrane manufacturer for specific details). Care must be taken to avoid damage to boards by impact or by concentrated loads during installation. When using ballasted systems the roof structure must be designed to accept the additional dead load, minimum 80 kg/m².
- **Roof Drainage:** To ensure adequate drainage the roof should have a minimum finished fall of 1:80. This may mean designing for twice the minimum finished fall to account for building inaccuracies, roof deflection and building settlement.
- **Thermal Bridging:** With increasing levels of insulation it is vitally important to ensure continuity of the insulation at the junction of elements. At the junction of the roof and the wall packing the eaves with compressible insulation will both prevent thermal bridging and close the cavity. At upstands and parapets the cavity wall insulation should be continued above the level of the roof to ensure continuity of the wall and roof insulation.
- **Wind Uplift:** The wind uplift force exerted on the roof will vary according to geographical location, site location and building height. Reference should be made to BS 6399 and the membrane manufacturer's recommendations for the number of fixings and the fixing pattern.

EvaTherm F board is available in the following dimensions:

Length (mm)	2400
Width (mm)	1200
Thickness (mm)	60, 70, 75, 80, 85, 90, 100, 110, 120, 130, 140, 150

Other sizes available on request. EvaTherm F insulation is also available as a tapered board.



ICB (International Construction Bureau) Ltd
Units 9-11 Fleets Industrial Estate,
Willis Way,
Poole,
BH15 3SU

Tel: 01202 785200
Fax: 01202 785201

Email: info@icb.uk.com