PolyFoam™ ROOF

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February 2020

Polyfoam™ Upstand Board

For use on upstands and parapet walls

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m^2K/W)	Length (mm)	Width (mm)	Compressive strength* (kPa)
50/6	0.033/0.47	1.50 / 0.012	600	1200	200
50/6	0.033/0.47	1.50 / 0.012	1200	2400	200
100/6	0.033/0.47	3.00 / 0.012	600	1200	200

*XPS material only

Description

Polyfoam Upstand Board is a laminate of Polyfoam high performance rigid extruded polystyrene (XPS) with a tough, weather resistant facing board.

Application

Polyfoam Upstand Board is used for the thermal insulation and protection of upstand and parapet walls.

Durability

The continuous service temperature limit of Polyfoam XPS is up to +70° C.

Performance

The extruded polystyrene content of Polyfoam Upstand Board has a thermal conductivity of 0.033W/mK, the facing board has a thermal conductivity of 0.47W/mK.

Benefits

- Integral weather resistant facing
- Capable of solving many design problems
- Excellent thermal performance
- Structurally stable
- Easy to install one-piece facing and insulation solution

PolyFoam™ XPS

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POL1004DAT - V0220

Environmental

Polyfoam XPS represents no known threat to the environment and has zero Ozone Depletion Potential and a Global Warming Potential of less than five. Polyfoam XPS is non bio-degradable and 100% recyclable.

Responsible Sourcing

Polyfoam XPS Limited has been awarded a certificate of approval from BRE Global, stating that, having complied with requirements of BES 6001:issue 3.1, Polyfoam XPS Limited have achieved a performance rating of 'Pass' for the Polyfoam product range.

Vapour resistivity

The XPS content of Polyfoam Upstand Board has a water vapour resistivity of

625MNs/g.m when tested in accordance with EN 12086.

Moisture absorption

Polyfoam XPS has a moisture absorption of 0.6% by volume when tested in accordance with EN 12087.

Fire performance

In accordance with clause 8 of EN13501-1:2007, the weather resistant facing board on Polyfoam Upstand Board has a reaction to fire classification of A1. The XPS content is Euroclass F.

Handling and storage

Polyfoam Upstand Board is lightweight and easy to handle and install, the boards should be cut to size using a tungsten carbide tipped (TCT) saw, **when cutting through the facing material it is advisable to wear a facemask**. Polyfoam Upstand Board is supplied on pallets, labelled with identifying product and manufacturing data and wrapped in a polythene shroud for temporary protection during transit and on site. Ensure the boards are not stored close to open flames or other ignition sources, also avoid volatile compounds and chemicals such as solvents. Polyfoam products should not be left exposed to prolonged sunlight as this will result in surface degradation. Where outside storage for extended periods is required cover with opaque/light coloured sheeting. The facing board on Polyfoam Upstand Board should have edges and corners protected to prevent chipping.

Installation

The boards should be cut using a TCT saw (ensure that FFP2 or 3 grade PPE is used to protect against inhalation of dust during cutting). The boards should be mechanically fixed to the parapet wall using the recommended through fixings. Fixing centres should be positioned at least 50mm from the top of the board, but not exceed 200mm. In the event that the roof deck is not supporting the bottom of the upstand board, additional mechanical through fixings should be used to compensate.

Mechanical fixings

Polyfoam XPS Limited recommends Ejot DDS fixings or similar approved when installing this product. Ensure that the fixings penetrate the parapet wall by at least 25mm.

Decoration

The external grade board can be decorated if required. The board does not require priming and can be painted with alkali resistant paints such as acrylics, chlorinated rubber, epoxy, PVA, PVC, polyurethane and silicate.

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