BEWI Upstand Board

Technical Datasheet

BEWI Upstand Boards are designed to deliver thermal insulation for upstands in flat roof constructions, commonly used in inverted roof systems. Their primary role is to insulate parapet upstands and minimise cold bridging, helping to maintain the thermal integrity of the building's internal envelope.

Manufactured from mineral wool insulation, factory-bonded to an external-grade, high-impact fibre-cement facing board, BEWI Upstand Boards ensure durability. They are engineered to provide a robust, weather-resistant, and impact-resistant finish.

Application Fields

BEWI Upstand Boards provide a non-combustible, impact and weather resistant thermal insulation for use on low level inverted roof parapet upstands, including to and across compartment walls.

Low level installation to meet standard thermal break requirements is 150mm above the finished roof level or 300mm above the bottom surface of the inverted roof insulation. Should the roof designer specify installation beyond standard thermal break requirements the board height should not exceed 1100mm.

The application of this product should always be confirmed by the Building Control Authority responsible for the project.

Key Benefits

- Low thermal conductivity helps provide a thermal break at the base of upstands and perimeter walls of a flat roof.
- Compatible with most flat roof waterproofing systems.
- Impact, weather resistant, facing board.
- Euroclass A2-s1,d0 for buildings over 11m high.

Technical Information

Reaction to fire of finished product	Euroclass A2-s1,d0

Insulation

Mineral wool thickness	50mm
Thermal conductivity	0.034W/mK
Reaction to fire	Euroclass A1

High Impact facing board

Fibre cement board thickness	6mm
Thermal conductivity	0.30W/mK
Reaction to fire	Euroclass A1

Dimensions

Standard size	1200mm × 600mm
Thickness	56mm

For more information:
bewi.com e-mail: sales.insulation.uk@bewi.com Tel: 0870 600 3666

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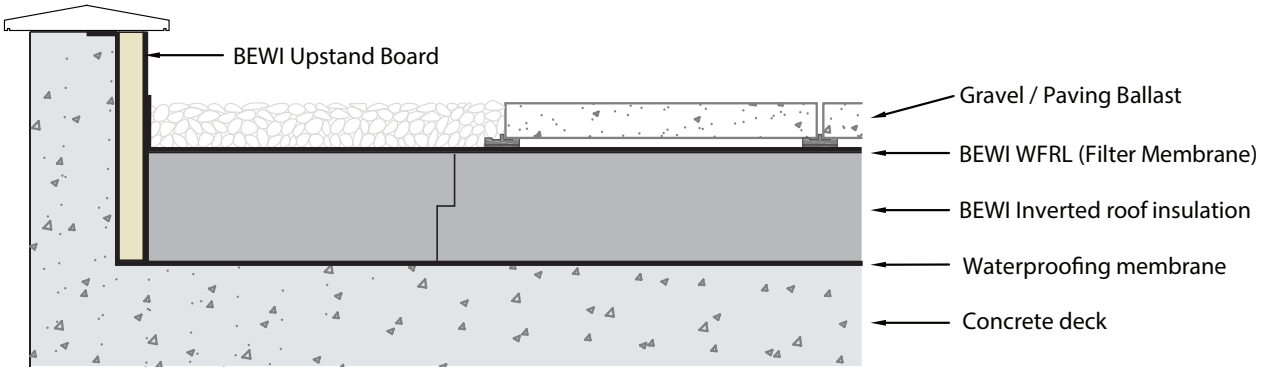

Installation

BEWI Upstand Boards are designed for use with inverted roof insulation and are supplied 1200 x 600mm. The boards can be installed either way up, vertically or horizontally, with the fibre-cement facing outwards and cut to size as required, (maximum permissible height is 1100mm).

Boards should only be installed using a single piece vertically.

The top edge of the boards must be protected by a cover flashing, coping or cill detail. Under no circumstances should the mineral wool insulation be exposed.

When used in an inverted roof system the boards are installed before the horizontal deck insulation so that the base of the board is sat directly on the roof deck. The horizontal insulation should tightly butt against the base of the upstand board helping to pin the bottom in position.

Low level installations

(up to 150mm above the inverted roof ballast).

No fixing is required providing the base of the board is adequately pinned by the horizontal insulation and roof ballast and the top is secured in place by the appropriate cover flashing detail.

High level installations

(exceeding 150mm above the inverted roof ballast).

High level installations require mechanical fixings in addition to the recommended top and base detailing, confirmed above, to hold the board in position.

Mechanical fixings should be stainless steel or galvanized steel with appropriate pressure plate washers, (minimum 40mm diameter), and have sufficient durability for the exposure zone and life expectancy of the installation.

Fixing type, material, grade, diameter, length, number and position etc should be specified, by others, to suit the substrate, and site conditions.

Alternatively, boards can be tightly clipped continuously along the top edge with a minimum continuous cover depth of 75mm.

Boards should be pre-drilled with over-sized holes relevant to fibre-cement board, (at least 2mm oversize), to allow for expansion. Fixings should typically be positioned across the top edge of the board at minimum 300mm centres, minimum 50mm from the corners of the board and 50mm in from the top edge to avoid damage to the board finish. Fixings must not be positioned more than 200mm from any board edge.

Fixings should be installed with a controllable speed screw gun and not overdriven, to prevent undue compression of the mineral wool insulation.

Additionally, one horizontal strip of PU adhesive should be used at mid-point of the exposed board area, if the exposed area is greater than 750mm above the surfacing finish.

Cutting and Drilling

BEWI Upstand Boards may be cut by hand or using an appropriate site approved power tool. When cutting by hand the mineral wool insulation is easily cut using a long-bladed knife or saw and the fibre-cement board using tungsten or TCT blade saws.

Holes should be drilled carefully using standard masonry drill bits.

Please ensure the correct PPE is worn when using, drilling and or cutting the insulation and fibre-cement boards.

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