

Specification - As a rendered external insulation board fixed directly on to a wooden or metal wall frame.

Product Ref: Marmox Multiboard

Product Use: External cladding and insulation of timber frame, metal frame or SIP walls to be render coated.

Manufacturer: Marmox Ltd

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Description: Extruded polystyrene covered on both sides with fibreglass mesh encased in a c.0.75mm layer of polymer modified concrete which permanently bonds the mesh to the polystyrene.

Dimensions: Thickness = 20, 30, 40, 50, 60mm Width = 1200mm, Length = 2400mm

Properties: Durable concrete substrate for render systems.
Waterproof barrier.
Low thermal conductivity (0.034W/mK) unaffected by moisture.
Does not expand or contract as temperature and humidity alters.

Authorities: ISO9001.

CE + UKCA: Declaration of Performance for an XPS Insulation Board
EN13164 – T1 – CS(10\Y)400 – CC(2/1/10)115 – WL(T)3

Fixing Method: Marmox Multiboard is screw fixed directly to steel or timber frame at 300mm centres.
Minimum board thickness is 20mm.

- Notes:**
- 1) The frame or studwork must be aligned so that all board edges, long and short sides, will be supported.
 - 2) The frame must provide support at 300mm centres.
 - 3) The frame should provide a drained ventilated cavity behind the Marmox board.
 - 4) The breather membrane should be between the main central insulation and the frame, it does not need putting alongside the Marmox boards.

- Marmox Multiboard is fixed onto the frame using screws + Marmox washers at 300mm centres.
- All Marmox board edges are sealed using a bead of Marmox MSP-360 which should be generously applied to it also bonds to the timber frame.
- A dab of Marmox MSP-360 is also applied onto the screw fixings to waterproof these.
- A 5mm gap between the board and the wall/roof junctions and movement joints is left and filled with MSP360.

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Rendering: Applying render to a boarded surface will result in hairline cracks at the board junctions if the render used has no flexibility after it has cured. Cement renders offer no flexibility and therefore are not *ideal* recommended for board systems.

Lime based renders and Thin Coat systems are better suited as they offer better flexibility.

The board surface is cement based with low porosity so does not need priming but just dampened with water.

Any exposed (foam) edges should be covered with scrim tape + MSP-360 before rendering.

- Limitations:**
- 1) Compounds containing organic solvents must not come into contact with Marmox board.
 - 2) Temperatures in excess of 75°C are not appropriate.
 - 3) Marmox Multiboards are waterproof and consequently not breathable. Consideration must therefore be given to improving the building's ventilation to counteract the increased risk of interstitial condensation.
 - 4) The board is a Class E material and therefore this application is not suitable for use on the outside of buildings at heights above 11m.
 - 5) The board is not suitable to support screwed in fixings. To hang items from Marmox clad walls, screws must be placed through the Marmox board into the substrate behind.
 - 7) Boards should, when possible, be laid in a staggered format.
 - 8) This application is Not suitable for use on the outside of buildings at heights above 11m.
 - 9) Thinner boards cannot be directly fitted to frames (*see spec EWI 3*)