

Specification: Tile backer board direct on an external timber/metal frame

Product Ref: Marmox Multiboard

Product Use: Intermediate substrate to ceramic, stone and brick tiling on an external timber or metal frame (*a vented curtain wall / rainscreen*).

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 allowed for this application:	STD.	Width: 600mm, Length: 1250mm, Thickness: 20, 30, 40, 50, 60mm
	LONG	Width: 600mm, Length: 2500mm, Thickness: 20, 30, 40, 50, 60mm
	BIG	Width: 1200mm, Length: 2400mm, Thickness: 20mm

Properties: Decoupling between the tiled surface and the sub-structure, thermal Insulation unaffected by moisture, waterproofing, and enhanced tile adhesion.

Authorities: BBA Certified (09/4687), ISO9001 (Bureau Veritas).
 BS EN 5385-2: Code of practice for the design and installation of external ceramic wall tiling.

CE Marking: EN13164 – T1 – CS(10\Y)400 – CC(2/1/10)115 – WL(T)3

Fixing Method: The Marmox board is fixed directly to the frame with screws and washers ensuring all board edges are supported.

- A VCL membrane should be placed against the existing masonry wall and a stud frame with a minimum 50mm air gap is then constructed with centres at 300mm.
- Boards should be aligned in a staggered (Brick-bond) format

A) IF BOARDS ARE ALIGNED VERTICALLY both of their long edges are supported by the frame and are fixed with corrosion resistant screws + Marmox metal washers every c.300mm

- STD boards are fixed to 3 vertical studs with 5 fixings per stud, 15 fixings per board.
- LONG boards are fixed to 3 vertical studs with 9 fixings per stud, 27 fixings per board.
- BIG boards are fixed to 5 vertical studs with 9 fixings per stud, 45 fixings per board.
- A bead of MSP-360 is applied to all board edges so that it forms a waterproof seal between adjacent boards / walls / ceiling and the stud frame itself.
- All screw-fixings are sealed with MSP-360.
- Scrim tape (reinforcing tape) should be placed over all board joints prior to tiling with adhesive

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B) IF BOARDS ARE ALIGNED HORIZONTALLY both of their long edges are supported by the frame and are fixed with corrosion resistant screws + Marmox metal washers every c.300mm

- STD boards are fixed to 3 horizontal studs with 5 fixings per stud, 15 fixings per board.
- LONG boards are fixed to 3 horizontal studs with 9 fixings per stud, 27 fixings per board.
- BIG boards are fixed to 5 horizontal studs with 9 fixings per stud, 45 fixings per board.
- A bead of MSP-360 is applied to all board edges so that it forms a waterproof seal between adjacent boards / walls / ceiling and also with stud frame itself.
- All screw-fixings are sealed with MSP-360.
- Scrim tape (reinforcing tape) should be placed over all board joints prior to tiling with adhesive

Notes:

1. A breather membrane would normally be considered on the outer-side of the insulation but because Marmox Multiboard is a non-breathable waterproof barrier, a breather membrane would not have any purpose in this detail.
2. All connections to building features *e.g. window frames*, are sealed with MSP-360.
3. The substrate should be constructed in accordance with BS5385 inasmuch that prior to the installation of Multiboard. The frame should be constructed so that all board edges are supported and of material that will not be subject to movement or warping resulting from changes in moisture content.
4. A 5mm movement gap should be created between the Multiboard and any restraining surface which should be filled with Marmox MSP-360.

Limitations:

1. Compounds containing organic solvents must not come into contact with Marmox board.
2. Temperatures in excess of 75°C are not appropriate.
4. This application is not suitable for use on the outside of buildings at heights above 11m in the UK or Ireland.