

Specification for use as tile backer board on perfectly flat brick or concrete internal Walls

Product Ref: Marmox Multiboard

Product Use: Intermediate substrate to ceramic and stone tiling on internal masonry (excluding aircrete) walls.

Manufacturer: Marmox Ltd

Address: Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.
 01634 835290; Email: sales@marmox.co.uk; <http://www.marmox.co.uk/>.

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 detail:	STD.	Width: 600mm, Length: 1250mm, Thickness: 4, 6, 10, 12.5, 20, 30, 40, 50, 60mm
	LONG.	Width: 600mm, Length: 2500mm, Thickness: 10, 12.5, 20, 30, 40, 50, 60mm
	BIG.	Width: 1200mm, Length: 2400mm, Thickness: 12.5, 20mm

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

Authorities: BBA Certified (09/4687), ISO9001 (Bureau Veritas), Energy Saving Trust Recommended for insulation.

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

Fixing Method 1) The Marmox board is fixed to the masonry wall with tile adhesive only. The wall should not be coated or covered with any surface covering, for example – paint, plaster.

Fixing Method 2) The Marmox board is fixed to the masonry wall with mechanical fixings.

Method 1 - FIXING WITH TILE ADHESIVE ONLY

- Ensure the wall is flat enough for full bed adhesion, *i.e.* <3mm over a 2m span. If it is uneven, the dotting and dabbing plus mechanical reinforcement method should be used instead.
- The masonry should be primed in accordance with the adhesive manufacturer’s advice.
- Boards can be aligned vertically or horizontally ideally in a staggered (*Brick-bond*) format.
- Marmox Multiboard is fixed onto a continuous bed (*3-5mm thick*) of cement-based tile adhesive, the same adhesive used for subsequently fixing the tiles with.
- Scrim tape (*reinforcing tape*) should be placed over all board joints prior to tiling with adhesive.
- If a completely waterproof layer is required (*if it is essential to keep moisture out of the masonry*), all board joints are covered with Marmox self-adhesive waterproof tape instead of reinforcing tape (*scrim tape*)

Fixing with screws and washers is detailed on the next page....

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Method 2 - FIXING WITH MECHANICAL FIXINGS ONLY

2a) Aligned Vertically with screws and Marmox washers

Only possible with a perfectly flat wall - if the variation is greater than 1mm over a 2m span, boards should be fixed onto a bed of adhesive

- Boards are aligned vertically in a staggered (*Brick-bond*) format.
- Marmox Multiboard is fixed onto the masonry with screws and washers ensuring all board edges are supported.
 - For STD board – 3 vertical rows of 3 fixings = 9 per board
 - For LONG board – 3 vertical rows of 5 fixings = 15 per board
 - For BIG board – 5 vertical rows of 5 fixings = 25 per board
- If a completely waterproof layer is required a small square of self-adhesive waterproof tape should be cut out and placed over the head of the fixing to waterproof it.
- Scrim tape (*reinforcing tape*) should be placed over all board joints prior to tiling with adhesive.
- If a completely waterproof layer is required (*if essential to keep moisture out of the masonry*), all board joints are covered with Marmox self-adhesive waterproof tape instead of reinforcing tape (*scrim tape*)

2b) Aligned Horizontally with screws and Marmox washers

Only possible with a perfectly flat wall - if the variation is greater than 1mm over a 2m span, boards should be fixed onto a bed of adhesive

- Boards are aligned horizontally in a staggered (*Brick-bond*) format.
- Marmox Multiboard is fixed onto the masonry with screws and washers ensuring all board edges are supported.
 - For STD board – 4 vertical rows of 3 fixings = 12 per board
 - For LONG board – 7 vertical rows of 3 fixings = 21 per board
 - For BIG board – 7 vertical rows of 5 fixings = 35 per board
- If a completely waterproof layer is required a small square of self-adhesive waterproof tape should be cut out and placed over the head of the fixing to waterproof it.
- Scrim tape (*reinforcing tape*) should be placed over all board joints prior to tiling with adhesive.
- If a completely waterproof layer is required (*if essential to keep moisture out of the masonry*), all board joints are covered with Marmox self-adhesive waterproof tape instead of reinforcing tape (*scrim tape*)

Notes:

1. All connections to building features e.g. window frames, are sealed with Marmox MSP-360.
2. 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 (*including organic based tile sealants*) must not come into contact with Marmox board.
- 2) Temperatures in excess of 75°C are not appropriate.