

## Specification: Tile backer board on external aircrete block Walls

**Product Ref:** Marmox Multiboard

**Product Use:** Intermediate substrate to ceramic and stone tiling on external walls made from aircrete, AAC type block.

**Manufacturer:** Marmox Ltd

**Address:** Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.  
 01634 835290; Email: [sales@marmox.co.uk](mailto: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.

<b>Dimensions</b>	STD.	Width: 600mm, Length: 1250mm, Thickness: 10, 12.5, 20, 30, 40, 50, 60mm
<b>allowed for</b>	LONG	Width: 600mm, Length: 2500mm, Thickness: 10, 12.5, 20, 30, 40, 50, 60mm
<b>this application:</b>	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, and enhanced tile adhesion.

**Authorities:** ISO9001 (*Bureau Veritas*), Energy Saving Trust Recommended for insulation.  
 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 to the aircrete block wall with ‘thermal block fixings’ and washers only.

- Ensure the wall is flat, *i.e.* <3mm over a 2m span.
- Boards can be aligned vertically or horizontally in a staggered (*Brick-bond*) format.
- Boards are fixed to the blocks using suitable ‘thermal block fixings’ with washers such as Marmox washers or similar which are compatible with the fixing.
- **If the boards are aligned vertically,**
  - Marmox Multiboard - 600 x 1250mm is fixed to the wall with three vertical rows c.400mm apart, of four thermal block fixings + washers (12 per STD board)
  - Marmox Multiboard - 600 x 2500mm is fixed to the wall with three vertical rows c.400mm apart, of seven thermal block fixings + washers (21 per STD board)
  - Marmox Multiboard - 1200 x 2400mm is fixed to the wall with five vertical rows c.600mm apart, of seven thermal block fixings + washers (35 per STD board)

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- **If the boards are aligned vertically.**
  - Marmox Multiboard - 600 x 1250mm is fixed to the wall with five vertical rows c.300mm apart, of three thermal block fixings + washers (15 per STD board)
  - Marmox Multiboard - 600 x 2500mm is fixed to the wall with nine vertical rows c.300mm apart, of three thermal block fixings + washers (27 per STD board)
  - Marmox Multiboard - 1200 x 2400mm is fixed to the wall with nine vertical rows c.300mm apart, of four thermal block fixings + washers (36 per STD board)
  
- Scrim tape (reinforcing tape) should be placed over all board joints prior to tiling with adhesive.

**Notes:**

1. Marmox washers or similar washers of similar diameter must be used with the thermal block fixings holding the Marmox boards.
2. All connections to building features e.g. window frames, are sealed with Marmox MSP-360.
3. Sealing the boards together with Marmox exterior grade sealant ensures a continuous waterproof barrier protecting against ingress of water. This sealant should be squirted into the fixing holes before inserting the anchors.
4. A 5mm movement gap should be created between the Multiboard and any restraining surface which should be filled with Marmox MSP360.

**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.

## Specification: Tile backer board on external rendered Walls

**Product Ref:** Marmox Multiboard

**Product Use:** Intermediate substrate to ceramic and stone tiling external walls which have an existing render coating.

**Manufacturer:** Marmox Ltd

**Address:** Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.  
 01634 835290; Email: [sales@marmox.co.uk](mailto: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.

<b>Dimensions</b>	STD.	Width: 600mm, Length: 1250mm, Thickness: 10, 12.5, 20, 30, 40, 50, 60mm
<b>allowed for</b>	LONG	Width: 600mm, Length: 2500mm, Thickness: 10, 12.5, 20, 30, 40, 50, 60mm
<b>this application:</b>	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:** ISO9001 (*Bureau Veritas*), Energy Saving Trust Recommended for insulation.  
 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 to the wall with both tile adhesive and fixings. The rendering must be level and sound with no damaged or loose areas of render.

- The rendered surface must be sound and flat and be primed in accordance with the tile adhesive manufacturer's recommendations.
- Boards can be aligned vertically or horizontally in a staggered (Brick-bond) format.
- Marmox Multiboard is fixed onto a continuous bed of external grade tile adhesive (3-5mm thick).
- Determine the nature of the wall behind the render and select appropriate fixings for that type of wall. After curing, the bonding is reinforced with mechanical fixings and Marmox washers.
- 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
- Whether the boards are aligned vertically or horizontally, the following fixing pattern (*shown on the next page*) should be followed.
- As an alternative to screws, washers and plugs, Marmox Dowel fixings may be used for concrete (*but not aircrete*) blocks

