

**Specification for use as tile backer board on aircrete block internal Walls**

**Product Ref:** Marmox Multiboard

**Product Use:** Intermediate substrate to ceramic and stone tiling on aircrete (AAC) block walls.

**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.

<b>Dimensions allowed for this detail:</b>	STD.	Width: 600mm, Length: 1250mm, Thickness: 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:** ISO9001 (*Bureau Veritas*), Energy Saving Trust Recommended for insulation.

**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 wall with suitable ‘thermal block’ mechanical fixings and washers.

- 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.
- **If the boards are aligned vertically,**
  - Marmox Multiboard - 600 x 1250mm is fixed to the wall with three vertical rows c.600mm apart, of three thermal block fixings + washers (9 per STD board)
  - Marmox Multiboard - 600 x 2500mm is fixed to the wall with three vertical rows c.600mm apart, of five thermal block fixings + washers (15 per STD board)
  - Marmox Multiboard - 1200 x 2400mm is fixed to the wall with five vertical rows c.600mm apart, of five thermal block fixings + washers (25 per STD board)

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- **If the boards are aligned vertically.**

- Marmox Multiboard - 600 x 1250mm is fixed to the wall with four vertical rows c.400mm apart, of three thermal block fixings + washers (12 per STD board)
  - Marmox Multiboard - 600 x 2500mm is fixed to the wall with seven vertical rows c.400mm apart, of three thermal block fixings + washers (21 per STD board)
  - Marmox Multiboard - 1200 x 2400mm is fixed to the wall with seven vertical rows c.400mm apart, of five thermal block fixings + washers (35 per STD board)
- Scrim tape (reinforcing tape) should be placed over all board joints prior to tiling with adhesive.
  - If a completely waterproof layer is required, all board joints are covered with Marmox self-adhesive waterproof tape instead of reinforcing tape (scrim tape) a small square of self-adhesive waterproof tape should be cut out and placed over the head of the fixing.

**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.

**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.
- 3) The board can compress if point load pressure is applied. A supported square of plywood (*e.g. 5cm x 5cm*) should be fixed into position with tile adhesive replacing the Marmox in the areas where there may be point loading from heavy shelving, hanging lavatories etc.