

**Specification - As a rendered external insulation board fixed mechanically to a masonry wall.**

**Product Ref:** Marmox Multiboard

**Product Use:** External insulation cladding and render carrier board for external walls.

**Manufacturer:** Marmox Ltd

**Address:** Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.  
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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:** Width = 600mm, Length = 1250mm or 2500mm, Thickness = 10, 12.5, 20, 30, 40, 50, 60mm

**Properties:** 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 fixed to a masonry, brick or concrete wall (not aircrete block) with Marmox fixing dowels (or screws and washers).

**Significant voids behind the boards must be filled.** A layer of cement rich render (*e.g. 3:1 sand:cement*) should be applied to the wall to create a reasonably flat substrate for the Marmox boards.

**a) Aligned Vertically**

- Boards are aligned vertically in a staggered (*Brick-bond*) format.
- Marmox Multiboard is fixed onto the masonry with mechanical fixings 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

**b) Aligned Horizontally**

- Boards are aligned horizontally in a staggered (*Brick-bond*) format.
- Marmox Multiboard is fixed onto the masonry with mechanical fixings 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

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- The boards are sealed to each other by running a bead of MSP-360 along each board edge during installation.
- MSP-360 should be squirted into the fixing holes to waterproof these punctures through the waterproof layer.
- A 5mm gap is left around the perimeter which is filled with Marmox MSP-360

**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.