

## Specification – Marmox Fireboard as a fireproof, renderable EWI board fixed to a masonry wall with mechanical fixings only

**Product Ref:** Marmox Fireboard

**Application:** A dry fix method for installing fireproof renderable EWI board on an outside brick, concrete or aircrete wall without the need for a layer of adhesive/basecoat.

**Manufacturer:** Marmox Ltd

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**Description:** A dense core of mineral wool covered on both sides with fibreglass mesh encased in a c.1.0mm layer of polymer modified concrete permanently bonded to the mineral wool core.

**Dimensions:** Width = 600mm, Length = 1200mm, Thickness = 20, 50, 100mm

**Properties:** Low thermal conductivity (0.037W/mK), vapour permeable ( $\mu=3.85$ ) and acoustic insulation  
Certified (BRE) as completely non-combustible (Class A1)  
20mm Fireboard and thicker with a render coating achieves 60minutes fire resistance.

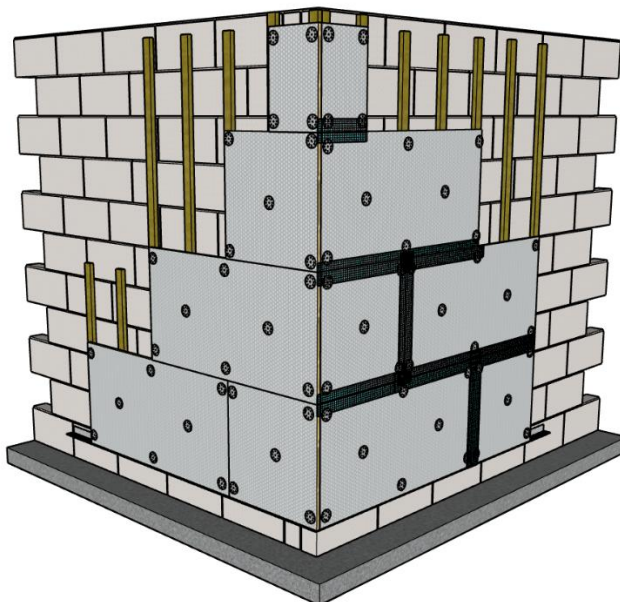
**UKCA mark:** Declaration of Performance for a Mineral Wool Insulation Board to EN13162: 2012

**Fixing Method:** The board is fixed to battens at 300mm centres on a masonry, brick or concrete wall with 8 mechanical fixings only.

Boards can be fitted directly to the masonry surface without battens in certain situations (see “alternative method” on the next page)

### Minimum thickness 20mm for this application

- Fit vertical battens to the wall at 300mm centres.
- Fit the Starter Track to the base of the wall 150mm above ground level.
- Starting on the Starter Track, align Fireboards are vertically or horizontally ideally in a staggered (Brick-bond) format.
- Secure the Marmox Fireboards to the battens using **EIGHT screws and washers** as shown: *three along each length with two in the middle.*
- Boards are placed next to each other leaving a 5mm gap which should be filled with foam filler.
- A 5mm gap is also left between fixtures, again which is sealed with foam filler.



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**Rendering:** The board surface is cement based with low porosity so does not need priming.  
 Any exposed (*mineral wool*) edges should be covered with beading prior to rendering.  
 Gaps between boards should be covered with Marmox scrim tape.

**For Traditional two coat render systems:** Apply the base coat followed by of a layer reinforcement mesh (*typically 150g/m<sup>2</sup>*) which is worked into the wet base coat.  
 At least 24 hours later, apply the silicone render.

### ALTERNATIVE FIXING METHOD – *WITHOUT AN AIR GAP*

**Marmox Fireboard is vapour permeable or “breathable.”**  
**In some circumstances therefore, e.g. if breathable lime render is to be used etc, it can be placed directly against the masonry wall without the usual air gap.**

**Suitability of this method:** The water vapour permeability of Marmox Fireboard,  $\mu$  is 3.85. This  $\mu$  value shows that moisture generated within the building will still escape through the walls but the rate of diffusion will be slightly reduced compared with having an air gap. The  $\mu$  value of this board and that of the lime render should be taken into account when deciding whether this method is appropriate.

**Minimum thickness for this application = 12mm**

- Fit the Starter Track to the base of the wall 150mm above ground level.
- Starting on the Starter Track, align Fireboards vertically or horizontally ideally in a staggered (*Brick-bond*) format.
- Secure the Marmox Fireboards directly to the masonry using **EIGHT Insulation Anchors** as shown: *three along each length with two in the middle.*
- Boards are placed next to each other leaving a 5mm gap which should be filled with foam filler.
- A 5mm gap is also left between fixtures, again which is sealed with foam filler.
- The length of these anchors must ensure there is at least 40mm impregnation into the masonry.