

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.

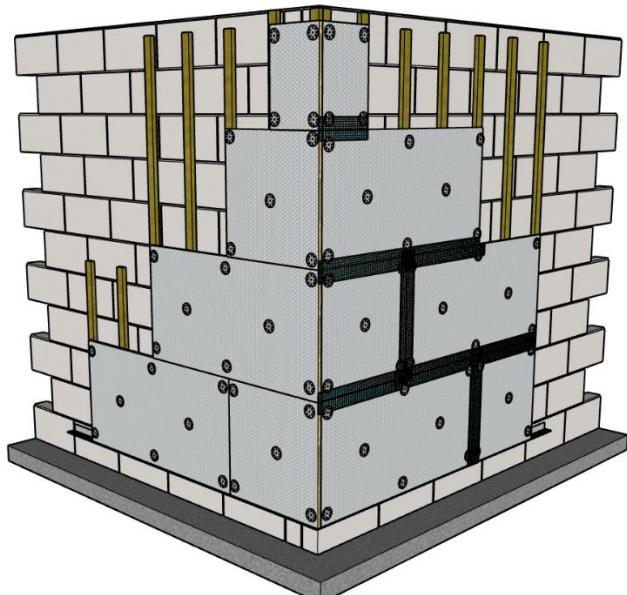
UKCA mark: Declaration of Performance for a Mineral Wool Insulation Board to EN13162: 2012

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/m²*) 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, μ is 3.85. This μ 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 μ 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 are 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.