



Specification for use a tile backer board providing decoupling, impact sound insulation, thermal insulation and a waterproof barrier to a tiled floor.

Product Use: Waterproof intermediate substrate to ceramic and stone tiling on internal flooring providing

decoupling, thermal insulation and impact noise insulation.

Typically used in shared accommodation where a tiled floor would otherwise result in noise levels being heard in the rooms below out of specification with Part E / Section 5 of the building

regulations (England & Wales / Scotland).

Can be used underneath under-tile heating systems.

Can be used on concrete or timber floors.

Manufacturer: Marmox Ltd

Address: Marmox UK Ltd, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.

01634 835290; Email: info@marmox.co.uk; http://www.marmox.co.uk/.

Description: Extruded polystyrene coated on one sides with fibreglass mesh encased in a c.0.75mm layer

of polymer modified concrete and on the other side, a 2mm thick layer of SBR rubber

Dimensions: Width = 600mm, Length = 1250mm, Thickness = 8mm / 12mm

Properties: Impact Sound Insulation on a tiled surface $(\Delta L_W) = 20$ dB.

Resistant to external environment and temperatures.

Low thermal conductivity (λ = 0.034W/mK) unaffected by moisture. Does not expand or contract as temperature and humidity alters.

Absorbs lateral movement in the sub-floor reducing the risk of cracking at the tiled surface.

Completely impermeable to water.

Authorities: HBRC (sound reduction), BBA (BBA certified tile backer board component), QMS: ISO9001

(Bureau Veritas).

CE Marking: No corresponding European Standard.

General Advice Typical Specification – suitable in dry and wet environments

Marmox SoundBoard is fixed using tile adhesive to the timber/concrete floor with the rubber

side facing down with tiling on its upper surface.

Alternative Specification – suitable in dry environments only

Marmox SoundBoard is fixed using Marmox Multibond to the timber/concrete floor with the

rubber side facing down with tiling on its upper surface.

General method - Fixing with Tile Adhesive

- The floor should be level, secure, clean and primed.
- Marmox SoundBoard is fixed (*rubber side down*) to the floor on a continuous bed of flexible cement-based tile adhesive applied with a 6/8mm trowel.
- Boards are configured in a brick-bond pattern when possible.
- A 5mm gap is left between the boards and the wall which is filled with Marmox Multibond.
- For areas requiring waterproofing, board joints are covered with Marmox self-adhesive Waterproof Tape prior to tiling. With adhesive.
- For areas not requiring waterproofing, crim tape (*Marmox reinforcing tape*) is be placed over all board joints prior to tiling with adhesive.



Alternative (dry areas only) - Fixing with Marmox Multibond

- The floor should be level, secure, clean and primed.
- A bead of Marmox Multibond is applied to the rubber side of the SoundBoard around the board's perimeter and zig-zagged through the middle. One tube should be used for every two boards.
- Marmox SoundBoard is fixed (rubber side down) to the concrete floor and not disturbed for 24 hours.
- Boards are configured in a brick-bond pattern when possible.
- A 5mm gap is left between the boards and the wall which is filled with Marmox Multibond.
- Scrim tape (reinforcing tape) should be placed over all board joints prior to tiling with adhesive.

Additional Applications

Using as a Perimeter Flanking Board

Marmox SoundBoard can be cut into strips and used as Flanking Boards at the base of the walls at tile level. This provides a rigid physical barrier which the tiles can be butted up to which is acoustically isolated from the masonry of the wall.

- The SoundBoard is cut into appropriate width strips.
- It is fixed to the base of the wall (with the rubber side facing inwards.) so that the base of the tiles / timber flooring / grout can butt up to it without it showing.
- It is adhered to the wall with Multibond. However, Multibond is not an instant grab adhesive so if the wall is uneven or difficult to adhere to, a non-solvent based grab adhesive may be substituted.
- Ensure there is still a c.5mm expansion gap between the edge of the boards on the floor and the flanking strips which is filled with Multibond.

With electric Under-tile Heating: -

- Ensure boards are secured to sub-floor as above.
- Ensure all board joints are taped.
- Fix the underfloor heating elements directly onto the concrete surface of the Multiboard using the appropriate fixings.
- Cover with a layer of self-levelling compound to just cover the wires.

Limitations:

- Marmox SoundBoard is designed for FLOORS ONLY, it reduces impact sound so would be ineffective on walls
- 2) Not suitable for mechanical fixing (screws will reduce acoustic properties).
- 3) Compounds containing organic solvents (including solvent-based tile sealers) must not be used.
- 4) Temperatures in excess of 75°C are not appropriate.
- 5) The board can compress if point load pressure is applied therefore tiles no smaller than 5cm x 5cm should not be used on the floor.
- 6) Should not be installed upon fresh concrete / screed as the waterproof nature of the board will limit evaporation.
- 7) If the floor includes expansion joints, SoundBoards must not be fitted over them.