Specification: Tile backer board on a concrete floor

Product Ref: Marmox Multiboard / Marmox SoundBoard

Product Use: Intermediate substrate to ceramic and stone tiling on a concrete floor.

Manufacturer: Marmox Ltd

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

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

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.

(Soundboard has an additional 2mm layer of SBR rubber on one face)

Dimensions Multiboard: Width = 600mm, Length = 1250mm, Thickness =

4/6/10/12.5/20/30/40/50/60mm

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

Properties: Resistant to external environment and temperatures.

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

Absorbs lateral movement in the sub-floor to reduce the risk of cracking in the tiled surface.

Completely impermeable to water.

SoundBoard only: Impact Sound Insulation through a ceramic tiled surface (ΔL_W) =

20dB

Authorities: BBA Certified (09/4687), ISO9001 (Bureau Veritas), Energy Saving Trust Recommended for

insulation.

CE+UK Marking: EN13164 – T1 – $CS(10\Y)400 – CC(2/1/10)115 – WL(T)3$

Fixing Method: Marmox Multiboard / SoundBoard is fixed to the concrete floor on a continuous bed (3-

5mm) of flexible cement-based tile adhesive

- Boards are configured in a brick-bond pattern when possible.
- Apply a continuous bed of cement-based 'flexible grade' (a.k.a. 'C2 grade') tile adhesive to the floor using a 6-4mm notched trowel.
- Lay and evenly push the Marmox board into position and check the flatness. *If using SoundBoard, lay the rubber side down to the floor.*
- Lay subsequent Marmox boards with a small gap of c.2-3mm between boards
- Apply a line of Marmox MSP-360 into the gaps between boards which seals the boards together making a waterproof barrier.
- Marmox self-adhesive waterproof tape should also be used in extreme.
- Reinforcing tape (scrim tape) is applied over the joints just prior to tiling except in extreme wet areas
 (e.g. where there is likely to be standing water) where Marmox self-adhesive Watrproof Tape should
 be used instead.

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Mechanical Fixing

Unless the concrete of the floor is of very poor quality unlikely to provide a good key for the adhesive, it is not necessary to also use mechanical fixings.

Mechanical fixings should <u>never be used with SoundBoard</u> as they will act as sound bridges negating the acoustic benefit.

Screws and washers can be used with Multiboard although they are counter-productive because: - they pierce the waterproof barrier

they reduce the flexibility of the foam core which is there to absorb lateral movement in the subfloor to prevent tile/grout cracking.

<u>If additional mechanical fixings are needed</u>, for example if the quality or integrity of the concrete floor is questionable, typically five fixings (*screws and washers*) per board are used - *one in each corner and one in the middle*.

Notes

Short boards are much easier to fix to floor than long boards $(0.6 \times 2.4 \text{m})$ or big boards $(1.2 \times 2.4 \text{m})$ but those dimensions are also approved for this application (longer boards are not manufactured in thicknesses less than 10mm)

Limitations:

- 1) Compounds containing organic solvents (including solvent-based tile sealers) must not be used.
- 2) Temperatures in excess of 75°C are not appropriate.
- 3) Tiles no smaller than 5cm x 5cm should be used on the floor.
- 4) Should not be installed upon fresh concrete / screed as the waterproof nature of the board will limit evaporation.
- 5) If the floor includes expansion joints, the tile backer boards must not be fitted over them.