

Specification: Tile backer board on raised access flooring

Product Ref: Marmox Multiboard / Marmox SoundBoard

Product Use: Intermediate substrate to ceramic and stone tiling on metal raised access flooring panels.

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
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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: 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 1 for Multiboard and SoundBoard – using adhesive

Marmox Multiboard / SoundBoard is adhered to the metal panels with a thin bed (2 - 3mm) of flexible tile adhesive suitable to bond to metal (*such as MAPEI KERALASTIC*). No mechanical fixings are used.
A c.5mm expansion gap is left around the perimeter and filled with Marmox MSP-360 sealant.

Fixing Method 2 for Multiboard only – using mechanical fixings

Marmox Multiboard (*min thickness 6mm*) is adhered to the metal panels mechanically using screws and Marmox washers spaced every c.300mm. A c.5mm expansion gap is left around the perimeter and filled with Marmox MSP-360 sealant.

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Method 1 - FIXING WITH TILE ADHESIVE ONLY

The benefit of this method without mechanical fixings is that the decoupling property of the Marmox board is not limited by the presence of rigid mechanical fixings.

- Consult the adhesive manufacturer of a suitable material suitable for bonding to metal – it may be necessary to prime the surface before applying the adhesive using a 6 to 8mm trowel. *Some adhesives such as Mapei Keralastic can be applied direct to the metal surface without the need for a primer.*
- Apply the tile adhesive onto the surface to a thickness of c.2 – 3mm with a flat trowel.
- The adhesive layer is scored ensuring no reduction in thickness of the adhesive layer.
- Loosely butt the boards up to each other in a brick-bond pattern and press the Marmox boards into the surface ensuring that the adhesive thickness is not compressed and is approximately an even 1 – 2mm depth. *If using SoundBoard, lay the rubber side facing down.*
- Any movement joints in the raised flooring system should be incorporated into the Marmox board and the tiling.
- Prior to tiling, cover the board joints with scrim tape and ensure that any expansion gaps are filled with Marmox MSP-360.

Method 2 - FIXING WITH SCREWS AND WASHERS

The benefit of this method a lower height and faster installation. The core material of the raised panels must be suitable of accepting ad retaining screw fixings.

- Loosely arrange the boards up to each other in a brick-bond pattern.
- Marmox Multiboards are fixed to the panels using suitable screws and Marmox washers at c.300mm centres (15 fixings per board – irrespective of board thickness)
- Lay subsequent Marmox boards with a small gap of approximately 2mm between boards and apply of bead of the sealant, Marmox MSP-360 into the board edges so that it seals the board to the metal plate below and to the adjacent board.
- Any movement joints in the raised flooring system should be incorporated into the Marmox board and the tiling.
- Prior to tiling, cover the board joints with scrim tape.

Limitations: Compounds containing organic solvents must not be used
 Temperatures in excess of 75°C are not appropriate
 Tiles no smaller than 5cm x 5cm should be used on the floor