

## 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](mailto: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)*

<b>Dimensions</b>	<b>Multiboard:</b> Width = 600mm, Length = 1250mm, Thickness = 4/6/10/12.5/20/30/40/50/60mm <b>Soundboard:</b> 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 ( $\Delta L_w$ ) = 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.

*Details on page 2*

## Specification: Tile backer board on raised access flooring

### **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