

## Specification: Tile backer board on a traditional floorboards

**Product Ref:** Marmox Multiboard / Marmox SoundBoard

**Product Use:** Intermediate substrate to ceramic and stone tiling on a floor comprising separate traditional floorboards.

**Manufacturer:** Marmox Ltd

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**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
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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 ( $\Delta L_w$ ) = 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

<b>Fixing Method:</b>	Marmox Multiboard / SoundBoard is fixed to the floorboards with continuous layer of tile adhesive <i>only</i> – mechanical fixings must not be used on either type of Marmox board. <b>This method is only appropriate when the floorboards are flat and stable. If a flat and stable surface cannot be guaranteed, an intermediate layer of plywood is required.</b>
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- The floorboards **must not flex or exhibit any vertical movement**. Any movement must be eliminated before fixing the Marmox boards.
- Boards are configured in a brick-bond pattern when possible.
- Marmox boards are fixed to the floorboards on a continuous bed of flexible cement-based tile adhesive applied with a 8/6mm notched trowel. If the floor is particularly uneven, a 20mm trowel may be used.
- 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.
- A 5mm gap is left between the boards and the wall which is also filled with Marmox MSP-360.
- 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 Waterproof Tape should be used instead.

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### Notes

Short boards are much easier to fix to floor than long Multiboards (0.6 x 2.4m) or big boards (1.2 x 2.4m) but those dimensions are also approved for this application (*longer boards are not manufactured in thicknesses less than 10mm or as SoundBoard*)

### 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.