

Specification: Tile backer board as part of an external patio

Product Ref: Marmox Multiboard / Marmox Sloping Board

Product Use: Provision of a flat and stable surface onto which stone or ceramic tiling is used to make an external paved area.

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.

Dimensions suitable:	Marmox Sloping Board: Width = 600mm, Length = 1250mm, Thickness: 33 sloping to 10mm Multiboard: Width = 600mm, Length = 1250mm, Thickness = 10/12.5/20/30/40/50/60mm
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Properties: Waterproof and freeze-thaw resistant
Low thermal conductivity (0.034W/mK) so acts as a thermal break.
Dimensionally stable irrespective of temperature and humidity conditions.
Absorbs lateral movement from the ground before it reaches the tiling thereby reducing the risk of cracking in the paved/tiled surface.

Authorities: ISO9001 (*Bureau Veritas*), Energy Saving Trust Recommended for insulation.

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

Fixing Method: Marmox Multiboard / Sloping Board is fixed to the concrete base with continuous flat layer of external grade tile adhesive or sand/cement mortar.

Ensuring Drainage

- The concrete base must be stable and be least of 50mm thick.
- The concrete must be cured before fitting the Marmox boards on top.
- Unless using 'Sloping Board', the concrete base should be constructed with a gradient so that water will run off. Typically, this is 1 in 80 which is approximately 1.2cm fall for each metre.
- Marmox Sloping Board is manufactured with a gradient (22mm over a 1.25m length) therefore putting a fall into the concrete is not necessary. *This board however is only made in one thickness, 33mm sloping to 10mm.*

Laying the Boards

- Marmox Boards are configured in a brick-bond pattern when possible.
- Marmox Multiboard or Sloping Board is fixed to the concrete base using a continuous either sand/cement mortar (c.5mm) or an external grade tile adhesive (c.3mm)
- Lay and evenly push the Marmox board into position and check the flatness.

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- Lay subsequent Marmox boards with a small gap of c.2-3mm between boards.
- After 24 hours, apply a line of Marmox MSP-360 into the gaps between boards which seals the boards together making a waterproof barrier. *MSP-360 can be applied to surfaces and materials which are damp so the boards do not need to be completely dry when this is applied.*
- Reinforcing tape (scrim tape) is applied over the joints just prior to tiling.

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.