

The all in one solution for insulating and waterproofing!

Marmox Multiboard is the all-in-one solution for waterproofing, insulating and drylining. It is lightweight, easy to cut to size and can be applied to floors, walls and ceilings as a surface ready for tiles or plaster.

There are various thicknesses available ranging from 4mm to 60mm and this gives the Multiboard many uses from lining walls, floors and ceilings to constructing vanity units and steam benches. With Curved Multiboard any feature-defining curve can be created.

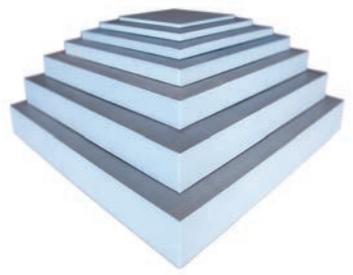
Waterproofing

Being completely waterproof, as opposed to merely water resistant, means that no water at all can be absorbed into the core of the Multiboard. This means that they will not bend, bow or distort in the way that plasterboard can for example.

Multiboard can be used as a waterproofing tile backer board in many situations including wetrooms, steam rooms and even swimming pools.



- Fully waterproof
- Highly insulating
- Fix to solid wall/timber
- Ready to tile or plaster
- Holds 62kg/m² on walls
- 40 tonnes/m² on floors
- Lightweight to handle
- Easy to cut



Insulating

The Energy Saving Trust recommends using Marmox Multiboard as an internal wall insulation board. It is particularly popular in providing insulation to solid masonry walls without cavities and where insulation on the outside of the building is impractical or would affect the look of the building. Using Marmox Multiboard to line what used to be a cold wall will also significantly reduce the surface condensation on that wall.

XPS (extruded polystyrene) is one of the most effective insulation materials available and also has the benefit that its thermal insulation properties are not affected whatsoever by wet or damp conditions. Other softer insulation materials absorb water and when that happens they effectively stop providing insulation.

High strength

Multiboard can hold a tile weight of 62kg per square metre, double that of standard lining board and with a high compressive strength of 40 tonnes/m² Multiboard can be used on virtually any tiled floor.



Underfloor heating

Did you know that 40% of heat generated by underfloor heating gets lost through concrete floors? Marmox Multiboard acts as a barrier, reflecting the heat upwards into the room and reducing the heat loss. This will dramatically reduce heating costs because the heating can be set at a much lower temperature to feel the same effects.

By using Multiboard in conjunction with underfloor heating a warm floor can be achieved in as little as 20 minutes as opposed to several hours if they are not used. This is the reason that insulation is recommended for use with heating wire by underfloor heating manufacturers.

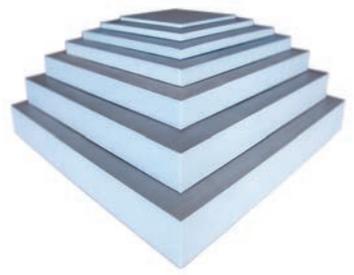
What is Multiboard made of?

Marmox Multiboard comprises a core of XPS. This is not the white type of polystyrene commonly used for packaging, it is a closed cell structure known as extruded polystyrene that will not allow water or water vapour to pass through it.

The surface is coated on either side with a thin but robust layer of fibreglass reinforced polymer concrete. This layer provides the perfect level of porosity to bond with tile adhesive and plaster.

Multiboard sizes

thickness (mm)	width (mm)	length (mm)	weight (kg)	R value (m.k/w)
4	600	1250	2.30	0.10
6	600	1250	2.40	0.16
10	600	1250/2500	2.70/5.40	0.28
12.5	600	1250/2500	2.80/5.60	0.36
20	600	1250/2500	3.10/6.20	0.59
30	600	1250/2500	3.40/6.80	0.91
40	600	1250/2500	4.00/8.00	1.22
50	600	1250/2500	4.20/8.40	1.53
60	600	1250/2500	4.50/9.00	1.84
12.5	1200	2400	11.00	0.36
20	1200	2400	12.00	0.59



At Marmox we extrude our own high strength polystyrene, which gives Multiboard two main advantages over other tile backer boards:

- 1) We can control the quality at all times.
- 2) We do not have to buy in polystyrene separately; this means we can keep our prices as competitive as possible!

Although Multiboards are extremely lightweight, they are exceptionally strong and can be fixed directly to a framework just as easily as they can be fixed to solid walls. As a tile backer board they can hold a tile weight of 62kg/m² (which is about double that of standard plasterboard). This high strength makes them ideal for using large format tiles and stones.

Sustainability

Our factory operates a zero waste policy where all waste material from Marmox Multiboard production is recycled into other less formulation critical products.

In accordance with EN13164 and the EU's Construction Product Regulations Marmox Multiboards do not contain any VOCs, or emit any dangerous substances. ODP = zero, GWP = 0.29

Technical data

Compressive Strength (at 10% deformation)	(EN 826)	450kPa (45 tonnes/m²)
Thermal Conductivity	(EN 13164)	0.034 Watts/mK
Water Absorption of XPS	(EN 12087)	<0.7%
Coefficient of Thermal Expansion	(ASTM D696)	8x10⁻⁶ k⁻¹
Flammability	(EN 476-6,7)	Class 0
	(EN 13501)	Class E
ODP		zero
GWP		0.29
Declaration of Performance (CE)	XPS-EN13164-T1-CS(10\Y)400-CC(2/1/10)115-WL(T)3	