

# MAPEGUARD BOARD

Multi-purpose, lightweight  
waterproof panel



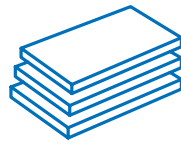
**QUICK AND EASY LEVELLING  
OF LAYING SURFACES,  
COMPLETE FREEDOM IN DESIGNING  
FURNISHING ELEMENTS.**

# MAPEGUARD BOARD

Multi-purpose, lightweight  
waterproof panel

Mapeguard Board .....	3
<b>Advantages</b> of the system .....	4
Application <b>procedure</b> .....	6
Application <b>examples</b> .....	8





# Mapeguard Board

**Mapeguard Board** is a multi-purpose, **waterproof and lightweight** panel, to be used as a substrate for installing all types of ceramic coverings. The product is used internally, for levelling walls and for creating room partitions, counter-walls and furnishing elements.

**Mapeguard Board** is made from an inner layer of high-density extruded polystyrene, with a **multi-layered and completely waterproof membrane to each side**.

It is normally used in the building industry for levelling or thickening uneven walls, and even as an alternative to cementitious render before tile installation. **Mapeguard Board** can be used also for creating shelves, furnishing elements, partition walls and shower cabins.

**Mapeguard Board** is available in **various thicknesses** to suit multiple application requirements and is characterised by high **mechanical strength**, thermal insulating properties and **high resistance to water contact**.

The panel may in fact be used also in damp environments such as shower cabins, kitchens and wellness centres.

The advantage of using **Mapeguard Board** lies in its **fast and easy use** in substrates levelling.

In addition, the **versatility** of the panels allows maximum design freedom, enabling to create unique and entirely customised projects.

Using **Mapeguard Board**, a wide range of different applications can be carried out with only a few steps.



## Different uses of Mapeguard Board

Design and furnishing elements such as:

- shelves and surrounds for sinks and sanitary ware;
- benches and seats;
- niches;
- partition walls and shower cabins.



# Advantages of the system

## Advantages



### VERSATILE

**Mapeguard Board** is available in different thicknesses and is easy to cut and assemble. This allows to customise any environment, by creating any desired shape and completely personalised, tailor-made furnishing elements.



### FAST SYSTEM

Unlike traditional building materials, **Mapeguard Board** makes it possible to carry out construction works without releasing dust and in short time, since it is immediately ready for tile application.



### LIGHTWEIGHT AND RESISTANT

**Mapeguard Board** panel is light and easy to handle; this makes transport, movement and installation much easier. Furthermore, the panel has a high mechanical strength and thermal insulating properties.



### WATERPROOF

All layers of **Mapeguard Board** are resistant to moisture, making it suitable for use in environments in contact with water such as shower cabins and wellness centres. Waterproof and perfectly flat walls can be made in one single operation.



### EASY TO CUT

The panel can be cut to size simply by using a cutter, according to the dimensions required by the structure to be created. Cutting operations are further eased by the peculiar layout of the panel, which also allows the marking of any useful application instructions.



### EASY TO INSTALL

**Mapeguard Board** panels are quick and easy to apply and their surface is conceived to ease the adhesion of ceramic, mosaic or natural stone coverings and for the application of skimcoats.





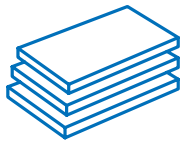
## Advantages for installers

- **Easy to apply.**
- **Easy to cut.**
- **Quick** application.
- **Immediate curing** of the product.
- **No dust** released on site, unlike traditional building materials.
- **Lightweight** reduces the effort for transporting, installing and staging jobsites.
- **Complete** product range system.

## Advantages for designers

- Possibility to **design endless furnishing features**, for the most personal touch in any project.
- Environments are ready for use **in shorter times** (if the panel is combined with fast-setting **Mapei** products).
- **Reduction of loads** provided by panel system impact.
- Single source partner providing the **complete range** of necessary products.

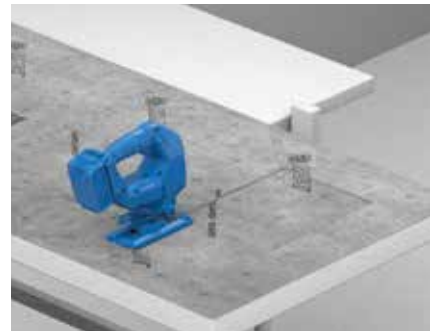
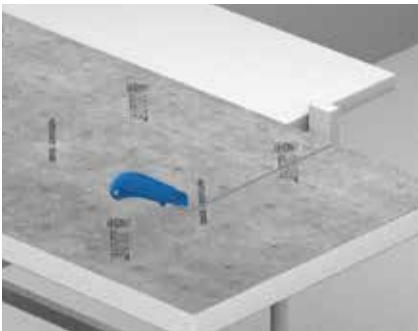




# Application procedure

## Cutting the panels

After choosing the panel thickness according to the type of application or use, **cut the panel** to the size and shape required with a standard cutter. Holes and openings for pipes may be created using a drill with a hole-saw bit or with an appropriate saw.



## Wall application

When **applying to walls** as an alternative to plaster, the panels may be bonded directly to the substrate using a **Mapei cementitious adhesive, class C2** according to Euronorm EN 12004. A solid layer of adhesive to the back of the board is normally recommended, however, depending on specific site requirements, the adhesive may also be applied in beads and spots as long as sufficient coverage of the contact area on the back of the panel is guaranteed. **Mapeguard Board** is also suitable for use with wall plugs if applied to substrates that are not load-bearing.



## Assembly

**Assembly of the panels** used to create walls for shower cabins and furnishing elements may be carried out using a **hybrid sealant**, such as **Mapeflex MS45**, and mechanical fasteners.

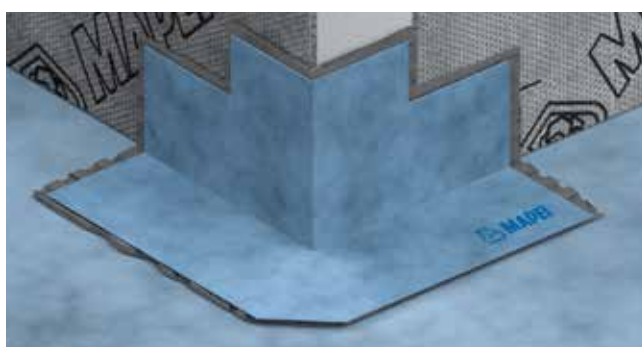
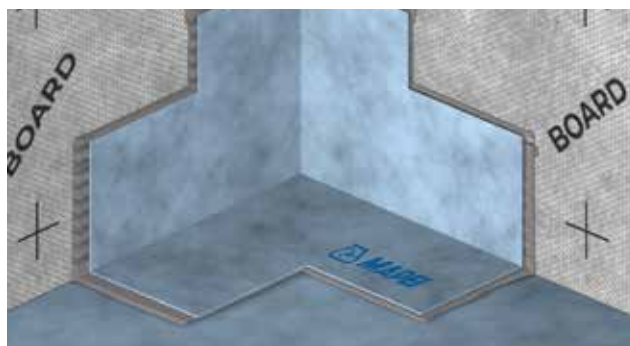




---

## Complete waterproofing

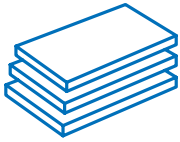
**Mapeguard Board** has a **waterproof** surface: to guarantee the waterproofing of the wall or assembled element, it is sufficient to seal the joints between each single panel with **Mapeguard ST** tape and all the critical areas (corners, edges, pipes) with the special accessory items from the **Mapeguard** system (**Mapeguard IC**, **Mapeguard ST**, **Mapeguard EC**, **Mapeguard PC**, **Mapeguard DH-R**, **Mapeguard DH-L**). **Mapeguard** accessory items can be applied using **Mapeguard WP Adhesive**.



## Application of the covering

The surface of the panels assembled as described above, which is resistant to water and perfectly flat, can then be finished with any type of ceramic tile, mosaic or stone material suitable for the specific area of use using a **Mapei cementitious adhesive of at least class C2**, which should be chosen according to the type of finishing material to be bonded.





# Application examples

---

## Levelling existing walls

Using **Mapeguard Board** it is possible to level off load-bearing and not load-bearing walls or vertical sections in general.

**Mapeguard Board** panels can also be used as an alternative to cementitious render.

To level off uneven walls, after selecting the panel of the desired thickness and cutting it to the required size, it is possible to bond **Mapeguard Board** directly on the substrate by using a cementitious adhesive, C2 class, according to Euronorm EN 12004.

For perfect results, a solid layer of adhesive to the back of the board is normally recommended, however, depending on specific site requirements, the adhesive may also be applied in beads and spots as long as sufficient coverage of the contact area on the back of the panel is guaranteed.

**Mapeguard Board** is also suitable for use with wall plugs if applied to substrates that are not load-bearing.



*Beads and spots application*

---

## Levelling existing tiled surfaces and different types of substrates

Thanks to the wide range of products available, **Mapeguard Board** makes it possible to level off different substrates by combining panels of different thicknesses, so that a completely flat surface is obtained.

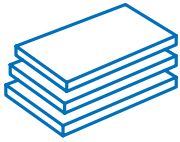
An example of this could be the levelling of a vertical surface partially covered with old ceramic tiles in its lower section and finished with render in its upper section.

In such cases a suitable panel to equal the thickness of the old ceramic covering can be applied directly on the existing render, so that a homogeneous laying surface is obtained. The panel must be bonded to the substrate using a **Mapei cementitious adhesive of at least class C2**, according to Euronorm EN 12004. In case of **non load-bearing substrates**, a mechanical anchor must be combined with the adhesive for the application.

A further advantage of this type of application is the possibility to level off already tiled surfaces with no need to remove the existing tiling and obtaining a flat, waterproof substrate without creating dust and debris. Once the flatness of the surfaces is restored, the new covering in ceramic, glass mosaic or stone material can be applied directly on **Mapeguard Board**.



*Levelling uneven substrates by combining panels of different thickness*



# Application examples

## Creation of furnishing surrounds

**Mapeguard Board** can be easily cut with a standard cutter and shaped for the creation of interior furniture such as surrounds and complementary elements for sanitary ware.

After choosing the panel thickness according to the element to be built, make holes and openings for pipes using a drill with a hole-saw bit or a standard cutter. Then place the shaped panels through bonding or, if necessary, through mechanical anchoring to the underlying structure.

Bonding can be easily carried out using a hybrid sealant, such as **Mapeflex MS45**.

With panels placed in this way it is possible to quickly create even complicated shapes made up of multiple elements, while granting water resistance, perfect flatness and excellent mechanical strength.



*Creating surrounds for a toilet tank*



*Creating a support surface for washbasins*

## Washbasin and furnishing elements

Washbasins, kitchen tops and interior furnishing elements can be easily realised with **Mapeguard Board** panels.

The perfectly flat surface of the panel, its high mechanical strength and resistance to water make it possible to create support surfaces for bathroom elements and sanitary ware.

Once the openings for pipes are marked and holes and cuts are carried out using a cutter, a saw or a drill with a hole-saw bit, the panels can be easily placed and bonded using **Mapeflex MS45** sealant applied on the edges of the panel.

The surface of the panel will be suitable to receive any covering designed for the final environment.



---

**Mapeguard Board** has a waterproof surface: to guarantee the waterproofing of the wall or assembled element, seal the joints between each single panel using **Mapeguard ST** tape or seal internal and external corners with **Mapeguard IC** and **Mapeguard EC**. If present, pipes and through-elements can be waterproofed by applying **Mapeguard PC**, selected according to the diameter of the element.

**Mapeguard ST** tape and special elements like **Mapeguard PC**, **Mapeguard IC** and **Mapeguard EC** can be bonded using **Mapeguard WP Adhesive**.

## Surrounds for bathtubs

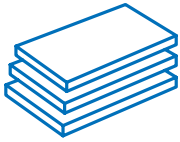
The renovation or creation of a new bathtub surround can be quickly carried out with **Mapeguard Board** panels. The necessary elements are quick and easy to prepare and there is no need for curing time of any material.

The panels are lightweight, resistant and waterproof. After cutting them to shape according to the geometry of the bathtub, the panels must be bonded using **Mapeflex MS45** fast-drying adhesive in cartridge.

The versatility of **Mapeguard Board** panels enables to personalise the bathroom by making surround structures and support surfaces for sanitary ware with a modern and innovative design. Surfaces made in this way will be flat and able to receive a ceramic, mosaic or natural stone covering.



*Creating surrounds for a bathtub*



# Application examples

## Shower cabins or partition walls

In environments subject to direct contact with water, **Mapeguard Board** panel can be combined with system accessories such as **Mapeguard ST**, **Mapeguard PC**, **Mapeguard IC**, **Mapeguard EC**, **Mapeguard DH-R** and **Mapeguard DH-L** to guarantee, together with the final covering, the watertightness of surfaces. The shower cabin is made by selecting the **Mapeguard Board** panel in suitable dimensions and thickness. Holes for pipes are then created using a drill with a hole-saw bit. After placing the panels using **Mapeflex MS45**, joints between single panels are waterproofed using **Mapeguard ST**. Through-elements such as taps of water piping are then sealed using **Mapeguard PC**. Any internal or external corner can be sealed using **Mapeguard IC** and **Mapeguard EC**, according to the geometry needed. Side corners **Mapeguard DH-R** and **Mapeguard DH-L** can be used for waterproofing floors at different heights in case of floor-level shower. **Mapeguard ST** tape and special elements like **Mapeguard PC**, **Mapeguard IC**, **Mapeguard EC**, **Mapeguard DH-R** and **Mapeguard DH-L** can be bonded using **Mapeguard WP Adhesive**.

The versatility of **Mapeguard Board** panels, available in various thicknesses, makes it possible to create new shower cabins or covering existing ones, obtaining flat, resistant and waterproof surfaces. The surface of panels can then be directly covered with mosaic, ceramic or stone material, with no need for further waterproofing systems in between. **Mapeguard Board** can be used also for making partition walls with niches.



*Shower cabin with niches*



---

## Benches and seats

Thanks to its high mechanical and compressive strength **Mapeguard Board** may be used also for making benches and seats inside bathrooms, shower cabins or damp environments such as wellness centres, changing rooms or service areas in general.

Methods for creating benches and seats are similar to the ones already described in previous applications. The panel is selected according to thickness (two panels can also be stacked and combined to obtain a greater thickness), then it is cut and shaped according to the final design and eventually bonded using mechanical anchors or **Mapeflex MS45** quick-drying sealant.

In environments subject to direct contact with water, **Mapeguard Board** panel can be combined with system accessories such as **Mapeguard ST**, **Mapeguard PC**, **Mapeguard IC** and **Mapeguard EC**, **Mapeguard DH-R** and **Mapeguard DH-L** to guarantee, together with the final covering, the watertightness of surfaces.

Benches and seats can then be covered with ceramic, mosaic or stone material.



*Making a seat*

# EVERYTHING'S OK, WITH MAPEI

**HEAD OFFICE**  
**MAPEI SpA**  
Via Cafiero, 22  
20158 Milan  
+39-02-37673.1  
mapei.com  
mapei@mapei.it

