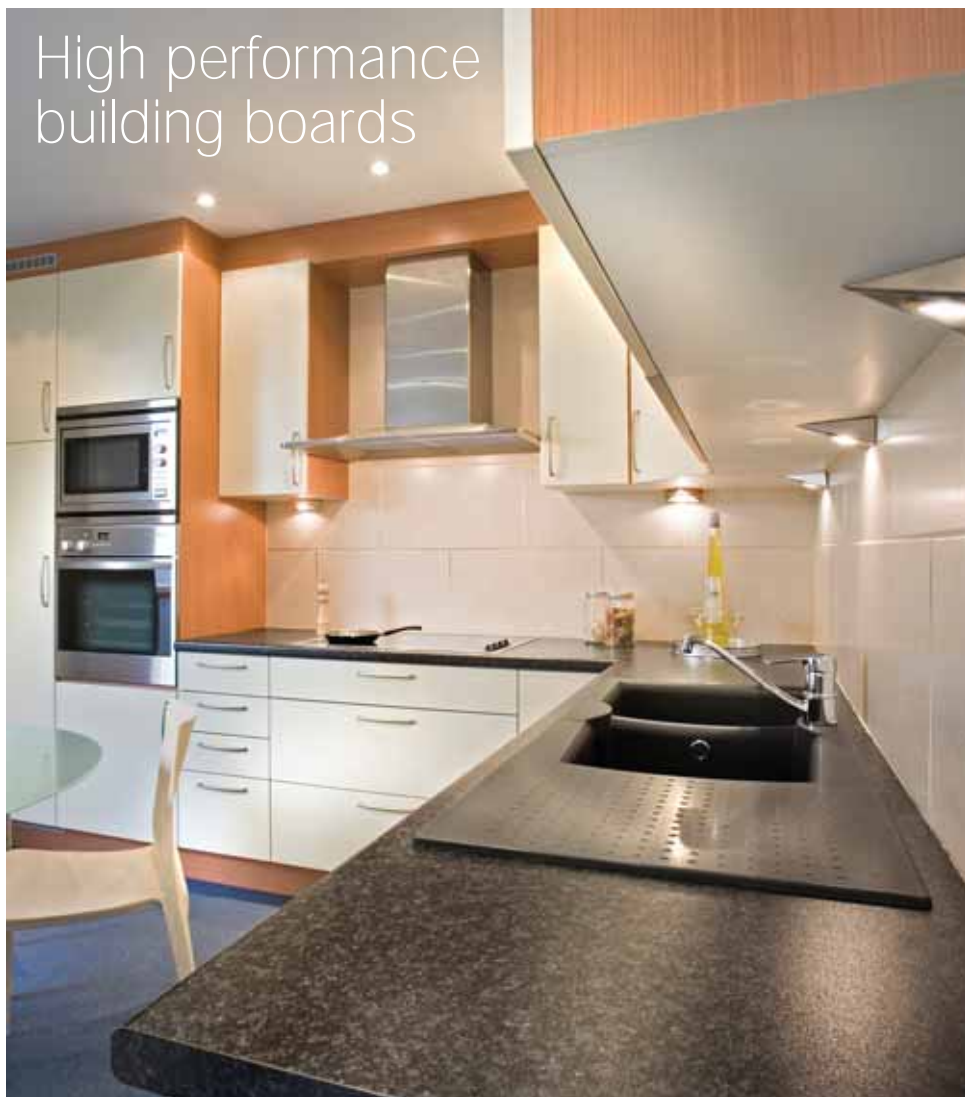




High performance building boards

High performance building boards



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Product selector

This gives a description of the range of high performance building boards available from Marley Eternit Ltd.

The aim of the guide is not only to show the range of products available but also to detail their applications, sheet sizes, colours and thicknesses and how to handle and work each product in order to achieve the best results.

If you have any queries regarding any of our products, please phone our highly trained technical services department on the number shown below.

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Product range and relevant applications



Bluclad



Duripanel



Eterboard



Hydropanel

Product

Acoustic panel

Base board for render

Base board for painting

Partition board

Product characteristics

The appropriate product characteristics are shown at the top right of each page.



Class 0



Impact resistant



Weather resistant



Load-bearing



Easily worked and decorated



Moisture resistant



Acoustic performance

Bluclad



Bluclad is the ideal render board to use in weather-exposed locations.

A flat, vapour-permeable Class 0 building board with outstanding dimensional stability, Bluclad is moisture, frost, mould and impact resistant. It can be used as a substrate for a variety of surface coatings including thin coat polymeric renders and textured finishes - and also to provide a seamless finish.

Available in a standard 10mm thickness, Bluclad is off-white in colour with a smooth surface on the front and is textured on the reverse. The textured surface is for thin coat polymeric renders.

Main applications

- External cladding (substrate)
- Infill panels
- Internal wall linings (substrate)
- Fascias
- Bargeboard
- Sheathing

Advantages

- Fire safe: (no fire ignition, no spread of fire)
- High contribution to sound insulating systems
- Resistant to extreme temperatures
- Water resistant (in direct outdoor applications used vertically only)
- Resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- Resistant to many chemicals
- Environmentally friendly, no harmful gas emissions

Properties

- Can be worked with joinery machinery
- Screw and nail without pre-drilling
- Very low hygric movement
- High level of dimensional stability



Moisture resistant



Weather resistant



Easily worked and decorated



Class 0

Recommended applications

Rainscreen cladding, half-timbered effects, internal wall linings (substrate), sheathing, fascias, bargeboards and infill panels.

Cutting

Bluclad is easy to cut on site with standard woodworking tools.

Fixing

Bluclad can be installed using either countersunk screws (number 6 or 8) or nails (5mm minimum head diameter). Bluclad should be fixed to support studs at maximum 600mm centres. Bluclad can be finished with thin coat polymeric renders or other surface coatings.

Finishing

Where seamless finishes are required, boards should be installed "stretcher bond" fashion, i.e. long edges horizontal and vertical edges staggered.

Note: Bluclad must be decorated for external use.



Dimensions, weight and tolerances

| | BLUCLAD |
|--------------------------------------|----------------------------------|
| Main application | Exterior rendering |
| Hatschek press | Yes |
| Double press | No |
| Autoclave | Yes |
| Rectified | Yes |
| Calibrated | Yes |
| Bevelled edges | No |
| Water repelling | Yes |
| Coloured surface | No |
| Colour | Natural |
| Thickness (mm) | 10 |
| Weight ex-works (kg/m ²) | 11.8 |
| Dimensions (mm) | Weight ex works (kg/sheet) |
| 1,200 x 2,400 | 34.0 |
| Tolerance | Complies with EN 12467 (level 1) |
| Thickness (mm) | ± 0.5 |
| Length and width (mm) | ± 3 |
| Squareness (mm/m) | ± 1.0 |

Hydropanel



A high performance tile backing building board that's impervious to water damage, rot, fungi, insect and vermin, Hydropanel is the ideal substrate for interior tiled areas that are likely to be affected by moisture.

Hydropanel combines its moisture resistance with Class 0 fire performance, excellent impact resistance and dimensional stability. Easy to handle and work, the boards can be fixed using standard tools to a variety of timber or metal fixing systems.

It is complemented by Hydropanel Filler and Hydropanel Finisher for seamless jointing.

Main applications

- External cladding (substrate)
- Infill panels
- Internal wall linings (substrate)
- Fascias
- Bargeboard
- Sheathing
- Interior walls: High performing partition board
- Interior floors: High performing floor board

Advantages

- Fire safe: (no fire ignition, no spread of fire)
- High contribution to sound insulating systems
- Resistant to extreme temperatures
- Water resistant (if in compliance with application guidelines)
- Resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- Resistant to many chemicals
- Environmentally friendly, no harmful gas emissions



Moisture resistant



Impact resistant



Easily worked and decorated



Class 0

Recommended applications

Bathrooms, shower and changing rooms, kitchens, basements, sanitary areas, classrooms and swimming pools.

Cutting options

Stationary saw or hand circular saw (with rail) - on slow rotation with carbide-tipped teeth or fast rotation with diamond cutting blade without teeth.

Jigsaw with carbide-tipped tooth cutting blade.

Edge finish options

Moulding cutter, fine emery cloth, sanding block or carbide-tipped plane.

Fastening accessory options

Stainless, galvanised or phosphated steel should be chosen, depending upon the application. See application guidelines for more information.

Smoothing the joints

Bevelled edges should be filled with Hydropanel Filler, allow to dry, sand and then apply the Hydropanel Finisher.

Screwing

Screws with countersunk torx head and full thread can be screwed directly without pre-drilling.

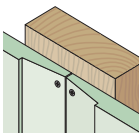
Nailing and stapling

Pneumatic or hand nailing with flat head nails does not require pre-drilling. Do not drive nails or staples too deeply into the sheet. Pneumatic nails should be regulated to a constant depth.

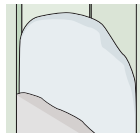
Drilling

Holes: Carbide or carbide-tipped twist drill with 60° nose angle. Sound apertures: Carbide-tipped cup drill or circular cutter, supporting the sheet around the hole with e.g. a wooden surface.

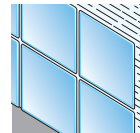
Note: Cutting and drilling must take place in a dry environment. For decorative applications, all sawdust and shavings must be immediately removed from the sheet with a dry micro-fibre towel to prevent permanent staining.



Screw fix to timber battens within bevelled area



Hydropanel Filler and Hydropanel Finisher providing a seamless joint



Complete by tiling the area

Dimensions, weight and tolerances

| Main application | HYDRO PANEL | | |
|--------------------------------------|----------------------------------|------|-----------------------|
| | Interior wall tiling | | Interior floor tiling |
| Hatschek press | Yes | | Yes |
| Double press | No | | No |
| Autoclave | Yes | | Yes |
| Rectified | Yes | | Yes |
| Calibrated | Yes | | Yes |
| Bevelled edges | Yes | | No |
| Water repelling | No | | No |
| Coloured surface | Yes | | Yes |
| Colour | Light green | | Light green |
| Thickness (mm) | 9 | 12 | 6 |
| Weight ex-works (kg/m ²) | 12.7 | 17.0 | 8.1 |
| Dimensions (mm) | Weight ex-works (kg/sheet) | | |
| 600 x 2,500 | 19.1 | - | - |
| 1,200 x 2,500 | 38.2 | 51.0 | 21.9 |
| 1,200 x 3,000 | 45.9 | - | - |
| Tolerance | Complies with EN 12467 (level 1) | | |
| Thickness (mm) | ± 0.5 | | |
| Length and width (mm) | ± 3 | | |
| Squareness (mm/m) | ± 1.0 | | |

Eterboard



Eterboard is an external grade fibre cement board ideal for rainscreen cladding, soffits, fascias, infill panels and dormer cheeks.

Durable, low maintenance and simple to cut, work and fix, the board arrives on site with a natural grey finish that's quick and easy to decorate.

Main applications

- Soffits and fascias
- Balcony panels
- Infill panels
- Dormer cheeks

Advantages

- Sound insulating
- Resistant to extremes of temperature
- Water resistant (in direct outdoor applications used vertically only)
- Resistant to living organisms (fungi, bacteria, insects, vermin, etc.)
- Resistant to many chemicals
- Environmentally friendly, no harmful gas emissions

Properties

- Strong, rigid and versatile joinery board
- Can be worked on with joinery machinery
- Screw and nail without pre-drilling
- Frost resistant



Weather resistant



Easily worked and decorated



Class 0

Recommended applications

Soffits and fascias, balcony, infill panels and dormer cheeks.

Cutting

We advise the use of extraction equipment. Use a tungsten carbide-tipped circular saw blade. Small pieces can be cut with a jigsaw using a Bosch 141 HM blade or similar.

Fixing screws

Eterboard can be fixed without pre-drilling using stainless steel screws (minimum 4.8 x 38mm). If pre-drilled, holes should be 5mm.

Nails

Pneumatic nail gun - use stainless steel ring shanked nails (minimum 2.3 x 37mm).

Manually installed - with stainless steel ring shanked nails (minimum 2.43 x 40mm).

Batten centres of 610mm are recommended for Eterboard.

Painting

Eterboard must be decorated for external use. Water-based paints such as Sadolin, Superdec or water-based masonry paints should be used.



Dimensions, weight and tolerances

| | ETERBOARD |
|--------------------------------------|----------------------------------|
| Main application | Exterior Eterboard |
| Hatschek press | Yes |
| Double press | No |
| Autoclave | Yes |
| Rectified | Yes |
| Calibrated | No |
| Bevelled edges | No |
| Water repelling | No |
| Coloured surface | No |
| Colour | Natural |
| Thickness (mm) | 9 |
| Weight ex-works (kg/m ²) | 13.0 |
| Dimensions (mm) | Weight ex-works (kg/sheet) |
| 1,200 x 2,500 | 40.0 |
| 1,200 x 3,050 | 48.5 |
| Tolerance | Complies with EN 12467 (level 1) |
| Thickness (mm) | ± 0.5 |
| Length and width (mm) | ± 3 |
| Squareness (mm/m) | ± 1.0 |

Duripanel



Duripanel is a smooth, highly durable, rot-resistant structural cement-bonded particle board ideal for a variety of load-bearing applications.

Providing sound insulation plus impact and moisture resistance, it can be used as an alternative to chipboard or plywood.

Main applications

- Acoustic linings
- Roof decking
- High impact linings

Advantages

- Fire resistant
- High contribution to sound insulating systems
- Good structural properties
- Water resistant (in direct outdoor applications used vertically only and treated with water repellent)
- Resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- Impact resistant
- Environmentally friendly, no harmful gas emissions
- Frost resistant

Properties

- Can be worked on with joinery machinery
- Screw and nail without pre-drilling (recommended fixings only)



Easily worked and decorated



Acoustic performance



Impact resistant



Load-bearing



Class 0



Moisture



Weather resistant

Recommended applications

The board can be used for a variety of general purpose applications including infill panels, fascia panels and barge boards.

Installation

Boards should be installed with a 3mm joint gap to allow for movement.

Cutting

Duripanel can be hand cut with an ordinary cross cut saw. Power saws with a tungsten carbide blade can also be used. Please contact Marley Eternit for full details. Duripanel is not suitable for rough cutting. Note: Dust levels must be controlled during power sawing.

Fixing: Drilling

Use normal high speed drills. Do not use percussion drills. Place scrap board beneath the drilling location to ensure a clean hole. Use bits with HSS steel tips.

Nailing, screwing and stapling

Up to 12mm thick Duripanel can be manually nailed without pre-drilling. For thicker boards pre-drill with slightly oversize holes. When power nailing, boards up to 24mm thick can be nailed without pre-drilling, and also shot-fired. When screwing with conventional screws, pre-drill with a slightly oversize hole. Pre-drilling is not required for any thickness when using modified TEK screws. Please refer to technical department for further details.



Jointing

For acoustic applications any gaps should be filled with a high performance, high modulus flexible acoustic sealant.

Dimensions, weight and tolerances

| | DURIPANEL | |
|--------------------------------------|----------------------------|------|
| Main application | Acoustic/Sheathing | |
| Compressed | Yes | |
| Autoclave | No | |
| Rectified | Yes | |
| Calibrated | No | |
| Bevelled edges | No | |
| Water repelling | No | |
| Coloured surface | No | |
| Colour | Natural | |
| Thickness (mm) | 10 | 12 |
| Weight ex-works (kg/m ²) | 12.5 | 15.0 |
| Dimensions (mm) | Weight ex-works (kg/sheet) | |
| 1,200 x 2,400 | 36.0 | 43.2 |
| Tolerance | Complies with EN 634-2 | |
| Thickness (mm) | ± 0.5 | |
| Length and width (mm) | ± 3 | |
| Squareness (mm/m) | < 1.0 | |

Handling & storage

When panels are supplied with protective paper or plastic between the faces, this should not be removed.

Always lift panels off each other. Never slide them off, as this can cause scratching.

When carrying panels, start by standing them on the back edge and lift with one person at each end. Protect the face from scratching or damage and always lean panels towards the back edge to avoid damaging the visible front edge.

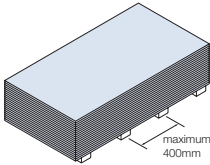
Edge damage can be prevented by having a carpet-covered pallet on site.

Any moisture allowed to penetrate between the stored sheets can cause permanent surface staining. Avoid this by storing all Marley Eternit high performance boards flat on pallets, in dry conditions indoors and undercover. Protect them from the weather and other trades at all times.

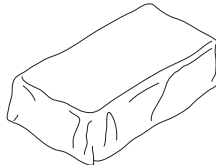
Health and Safety aspects

Dust can be released while the sheets are being processed which can irritate airways and eyes. It is recommended that a dust mask and safety goggles be worn.

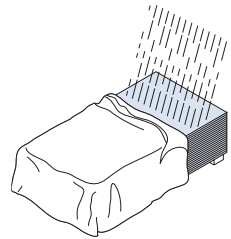
Appropriate dust extraction or proper ventilation are to be provided. Long-term exposure to dust can be harmful to health.



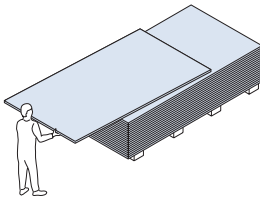
Stacked on a level surface



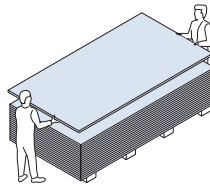
Store under cover



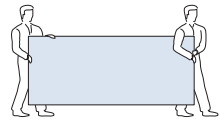
Must be protected from the weather



Do **not** drag sheets off the stack



Must lift the sheets off the stack



Carry on edge but do not store on edge

Notes

Notes

Notes

Technical Advice

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www.marleyeternit.co.uk



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