

New

Pictura

High performance cladding

Introduction

The new Pictura coating system incorporates an additional surface treatment for Fibre Cement panels. The main characteristic of this treatment is the hard, smooth, silky matt surface.

The UV cured top layer offers good protection against many types of staining and mechanical damage during construction.

Whilst the Pictura surface is smooth and easily cleanable, it also provides protection against graffiti produced by common aerosol and other paints. Graffiti can be eliminated with common graffiti removers.



Advantages

- ✓ Non-combustible
- ✓ Good noise insulation properties
- ✓ Weather resistant
- ✓ waterproof
- ✓ Resistant to living organisms (mould, bacteria, insects, etc.)
- ✓ Chemically resistant
- ✓ Environmentally friendly, no harmful gas emissions
- ✓ Strong and rigid panels
- ✓ Frost resistant
- ✓ Anti graffiti protection

Applications

- ✓ Rainscreen cladding
- ✓ Weather boarding
- ✓ Outdoor planking for sandwich elements
- ✓ Window cills and recesses
- ✓ Cladding for lintels (doors, windows)
- ✓ Interior wall lining
- ✓ Soffits
- ✓ Fascias
- ✓ Bargeboards





Technical data



Standards

The technical properties of Pictura sheets are in accordance with the prescriptions of BS EN 12467: 2004, Category A, Class 3. The panels are manufactured to ISO 9001 and ISO 14001.

Manufacture

Pictura panels are produced on a Hatschek machine and are pressed and air-dried. The surface is smooth, not glossy, with an acrylic coating and a UV hardened top layer, to produce a strong impact and dirt resistant finish. This finish gives a hard surface, offering scratch resistance and 'anti graffiti' protection from most types of paint.

Availability

Colours marked 'standard' (pages 6-7) are the most popular and are either kept in stock or are usually available on short lead times.

All other colours are made to order and will be subject to longer lead times.

Dimensions

Nominal thickness	8/12mm
Sheet sizes*	2500 x 1250mm 3100 x 1250mm
Tolerance on thickness	±10%
Nominal weight:	15.4 kg/m ² (8mm) 22.8 kg/m ² (12mm)

* These are the maximum sheet sizes available after trimming by a fabricator.

Properties (air dry)

Density	1650 kg/m ³
Bending strength:	
Longitudinal	26N/mm ²
Transverse	17N/mm ²
Modulus of elasticity	15,000N/mm ²
Porosity	20%
Hygroscopic movement	1.0mm/m
Co-efficient of linear expansion	10 x 10 ⁻⁶ m/mK
Thermal conductivity	0.6 W/mK
Water vapour resistance coefficient:	
(0-50 % rel. humidity)	350
(50-100 % rel. humidity)	140
Frost resistance	To DIN 52104
Reaction to fire:	
Building Regulations	Class 0
EN 13501-1	A2-s1-d0
Moisture content	8 %
Temperature – durability	rated up to 80 °C
Environmental Product Declaration	according to ISO 14025 (EPD)

Fixing overview

In facade applications, Pictura can be screwed to vertical timber battens or riveted to an aluminium sub-frame.

Concealed fixings

In facade applications, where a smooth, unbroken surface is required, Marley Eternit offer a choice of concealed fixing systems.

Batten sizing

At panel joints: min 100 x 38mm.

At intermediate points: min 50 x 38mm.

Batten rail spacing

Maximum batten centres 600mm. For 1.5kN/m² wind load.

Bonding for secret fixing

If Pictura is to be glued, the adhesive must be used in accordance with the application guidelines and guarantee conditions of the adhesive supplier (SikaTack-Panel). Further information is available from Marley Eternit.

Screwing

Stainless steel screws with mushroom head and torx drive.

Screws can be used in pre-drilled holes only.

- 5.5 x 35mm for 8mm thickness.
- Screws must be used in conjunction with top hat sleeve.

Blind riveting

Aluminium rivets and associated cylindrical spacer sleeve in 9.5 mm holes.

Aluminium rivets:

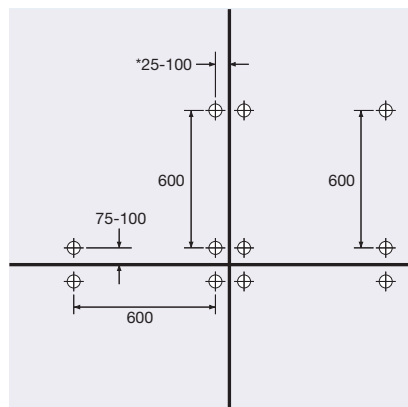
- 4 x 18 – K15mm for 8mm thickness.
- Special rivet-setting tool must be used

Mechanical secret fix

In facade applications where a smooth unbroken surface is required, Marley Eternit offer a concealed mechanical fixing system. Hangers are fixed to the rear face of 12mm thick Pictura panels. The hangers hook onto horizontal rails, which, in turn, are fixed to vertical rails.

Screw fixing

Maximum screw fixing centres for 8mm Pictura panels



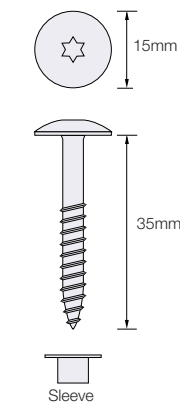
Larger battens are required if panel fixings are located more than 25mm from the vertical edge.

Hole sizes

Pre-drilled holes in the panels should be 7mm.

Notes

- 1 In all cases it is important to have the corner fixings staggered at unequal spacings from the two edges.
- 2 A minimum 8-10mm gap should be allowed between all panels.



Other fixing systems and design detailing

Pictura can be fixed using the systems below.



Timber battens



Omega and Zeds



Ventisol



Ventispan



Structural bonding
(restrictions apply)



Mechanical secret fix

Application Instructions

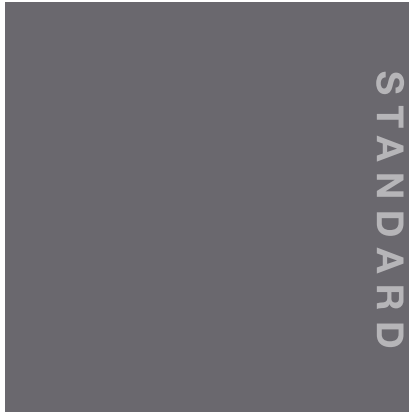
Marley Eternit offer a full range of Application Instructions for their fixing systems, setting out detailed design and installation data.

Please contact the Technical Advisory Service for further information on 01763 264686.

Colour range



PI 041 **Black**



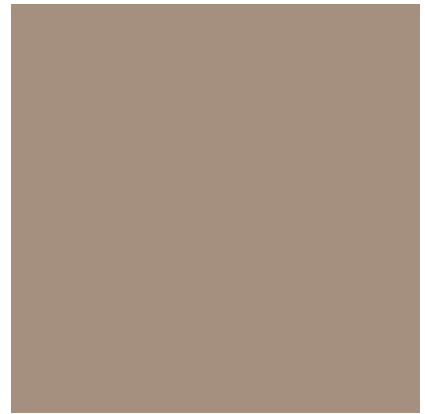
PI 241 **Grey**



PI 242 **Grey**



PI 941 **Brown**



PI 943 **Brown**



PI 441 **Blue**



PI 341 **Red**



PI 741 **Orange**

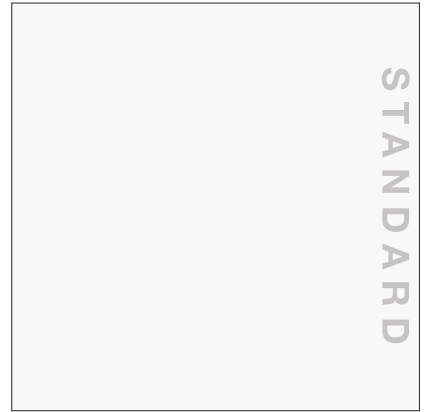
Availability

Colours marked 'standard' are the most popular and are either kept in stock or are usually available on short lead times.

All other colours are made to order and will be subject to longer lead times.



PI 243 Grey



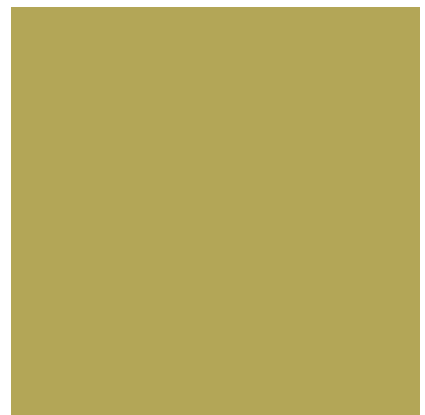
PI 141 White



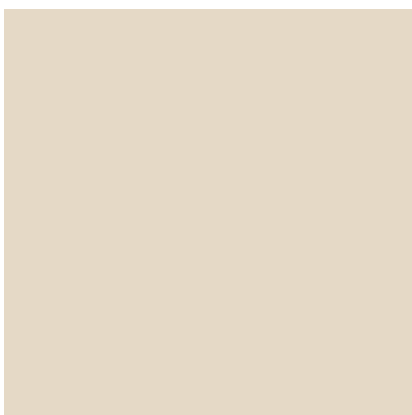
PI 543 Green



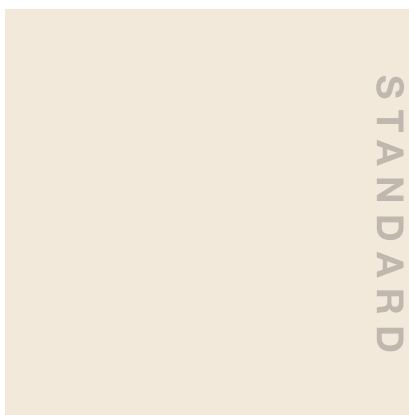
PI 541 Green



PI 542 Green



PI 842 Beige



PI 841 Beige



Sitework

Cutting

When cutting fibre cement it is best to use a hard-metal saw blade of Class K10 (DIN 4990). In order to ensure an adequate working life of the saw blade and good quality cuts, it is important to follow the recommendations below.

- Cutting speed: 2.0 – 2.5 m/s
- Feeding speed: 3.0 – 3.5 m/min

Drilling

Any commercial electric hand drill can be used, preferably with electronic control and a good drill bit. Do not use the hammer drill function. Heavy-duty, hard-metal drill bits should be used for continuous operation.

For holes, carbide-tipped twist drill with a 60° nose angle.

For round apertures, cup drill or circular cutter, carbide-tipped.

Sawing and drilling must take place in a dry environment. Saw dust and swarf must be removed immediately from the sheet to avoid permanent stains.

Health and safety

Fibre cement is a modern, reinforced construction material made from natural and environmentally-neutral raw materials, predominantly Portland cement.

Transport conditions

The panels should be moved in stacks using a fork-lift truck or a crane. Individual panels should be carried vertically and should not be set down on corners. Stacks should be transported under a waterproof cover.

Storage and handling

Pictura should be stored and transported on a flat, dry surface which gives support over the entire area. Stack to a maximum height of 1.0 metre, preferably on pallets, or on dry wooden slats placed sufficiently close to avoid sagging. The panels should be covered, for example with a heavy-duty tarpaulin, to protect against dampness, weather and dirt. The covering must remain in place at all times for stacked material.

Individual panels should be stored on edge with air circulation on both sides. If only one side of a panel dries out or becomes damp this can lead to deformation. Paper or foil is inserted between front surfaces to protect the high quality finish, and this should be kept in place when restacking. Stack the panels front face to front face or rear surface to rear surface. Each panel should be lifted from the pile by two workers, removed without scraping the other panels and then carried vertically. Pictura panels should always be carried upright.

For further information

Tel 01283 722588 Fax 01283 722219 E-Mail cladding@marleyeternit.co.uk

www.marleyeternit.co.uk

