

New



# Natura Pro

High performance cladding

# Introduction

Natura Pro offers the designer subtle shades of colour along with the crisp, clean lines required to create dynamic and attractive elevations.

Added to this, Natura Pro has a tactile, smooth surface which allows the natural variegation of the fibre cement finish to be seen through the semi-translucent, pigmented coating. A UV cured top layer offers good protection against many types of staining, against mechanical damage during construction and against the graffiti produced by common aerosol and other paints, which can be eliminated with common graffiti removers.

The creative freedom offered by Natura Pro is underpinned by its strength, light weight, durability and ease of use, all proven over many years of design-led applications across a wide range of sectors.



## Advantages

- ✓ Tactile, smooth surface
- ✓ Variegated fibre cement finish
- ✓ Choice of subtly pigmented surfaces
- ✓ Class 0 fire performance
- ✓ Economical
- ✓ Secret fix system
- ✓ Natura Pro panels have an installed life expectancy of at least 50 years
- ✓ Easy to fix
- ✓ Designed for rainscreen cladding systems
- ✓ Excellent weather resistance
- ✓ Resistant to insects, mould growth and fungi
- ✓ Minimal maintenance
- ✓ Natura Pro panels are suitable for a wide range of high quality facade applications
- ✓ BBA certificate No. 06/4355.







# Technical data



## Standards

The technical properties of Natura Pro sheets are in accordance with the prescriptions of BS EN 12467:2004, Category A, Class 3.

## Manufacture

Natura Pro has been developed for external cladding applications and is a coloured fibre cement board which allows the fibre cement substrate to show through, giving a unique surface appearance.

## 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

Panel thickness	8/12mm
Sheet sizes*	2500 x 1250mm 3100 x 1250mm
Nominal weight	8mm - 13.6kg/m <sup>2</sup> 12mm - 20.4kg/m <sup>2</sup>
Tolerance on thickness	±10%

\* These are the maximum panel sizes after trimming by a fabricator.

## Properties (air dry)

Density	1650kg/m <sup>3</sup>
Bending strength:	
Longitudinal	24N/mm <sup>2</sup>
Transverse	17N/mm <sup>2</sup>
Modulus of elasticity	15,000N/mm <sup>2</sup>
Porosity	20%
Hygroscopic movement	1.0mm/m
Co-efficient of linear expansion	10 x 10 <sup>-6</sup> m/mK
Thermal conductivity	0.6W/mK
Frost resistance	Fully frost resistant
Reaction to fire:	
Building Regulations	Class 0
EN 13501-1	A2-s1-d0

## Fixing overview

In facade applications, Natura Pro 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/m<sup>2</sup> wind load.

### Edge sealing

Natura Pro panels require the application of 'Luko' to the cut edges in order to avoid moisture ingress. Please contact Marley Eternit for more information.

### Bonding for secret fixing

If Natura Pro 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:

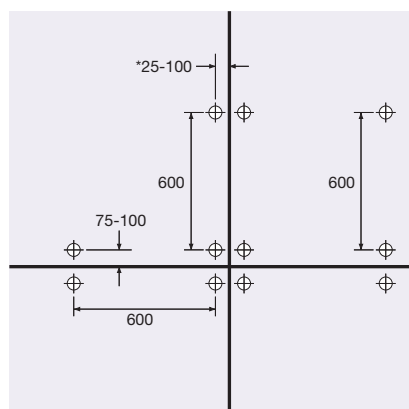
- 4 x 18 – K15 mm for 8 mm thickness.
- Special rivet-setting tool must be used

### 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 Natura Pro panels. The hangers hook onto horizontal rails, which, in turn, are fixed to vertical rails.

### Screw fixing

Maximum screw fixing centres for 8mm Natura Pro panels



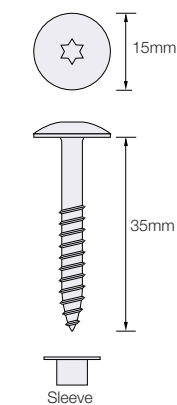
Larger battens are required if panel fixings are located more than 25mm from the vertical edge.

### 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

Natura Pro 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.

# Natura Pro colour range

## Colours

Natura Pro panels have a subtle tinted, semi-translucent applied coating allowing the texture of the fibre cement to show through. This, combined with the extensive colour choice, offers the designer a high degree of visual flexibility.

## 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.



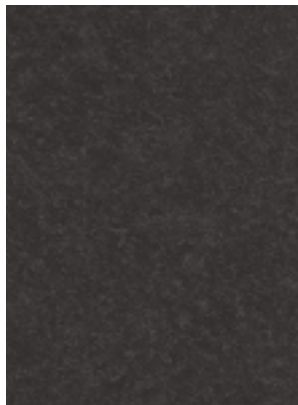
NP373 Red



NP973 Brown



NP473 Blue



NP073 Black



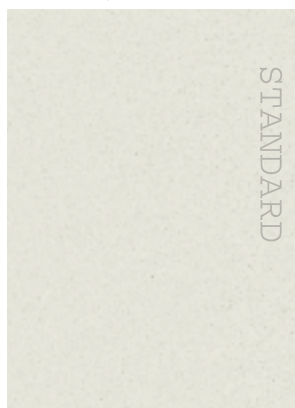
NP282 Grey



NP572 Green



NP251 Anthracite\*



NP154 Cream White\*



NP359 Ruby\*

Anthracite core is used for the following colours :  
NP373, NP973, NP473, NP073, NP282, NP572 and NP251.

\* These are "through coloured" items.



NP292 Cool Grey



NP191 White



NP891 Beige



NP250 Natural Grey \*



Natural Grey core is used for colours above:  
NP250, NP292, NP191 and NP891.

## 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

Natura Pro 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. Natura Pro panels should always be carried upright.

### For further information

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[www.marleyeternit.co.uk](http://www.marleyeternit.co.uk)

