

**pbs**  
**europan NATURA**

EUROPAN NATURA is a coloured-through, compressed fibre cement sheet, enhanced with a semi-transparent treatment, used for external cladding, soffits, weatherboards, louvers, internal linings and ceiling. An available option is EUROPAN NATURA PRO which offers a higher level of abrasive resistance and protection from graffiti.

## Product Information

### 1. Product composition

EUROPAN NATURA sheets consist of the following:

- Portland cement
- Mineral fillers
- Organic reinforcing fibres
- Additives
- Semi-transparent water-based acrylate finish on the face
- Vinylidene chloride copolymer (PVDC) with a paraffin wax on the reverse.

### 2. Production method

EUROPAN NATURA sheets are manufactured on a Hatschek machine and are compressed and air cured. EUROPAN NATURA is then finished with two semi-transparent water-based acrylate finishes on the face and vinylidene chloride copolymer (PVDC) with a paraffin wax.

EUROPAN NATURA is not required to **and cannot** be repainted. Consult PBS Distributors before applying other coatings on the product.

### 3. Dimensions and tolerances

Standard thickness: 8 mm (on special order, 5 and 12mm thick panels can be manufactured.)

Untrimmed	Trimmed
1280 x 2530 mm	1250 x 2500 mm
1280 x 3130 mm	1250 x 3100 mm

Tolerances

	Untrimmed	After cutting
Thickness	+/- 0.5 mm	+/- 0.5 mm
Length and width	+/- 5.0 mm	+/- 1.5 mm
Squareness	2.0 mm / m	1.0 mm / m

### 4. Weight

Thickness	Weight
5 mm	9.5 kg/m <sup>2</sup>
8 mm	15.4 kg/m <sup>2</sup>
12 mm	22.8 kg/m <sup>2</sup>

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## 5. Colours

EUROPAN NATURA has a smooth surface and is finished with a semi-transparent coating. EUROPAN Natura is characterized by natural hues in the sheet.

An overview of the colours with respective product codes is given in the following tables.

There are 4 options available that are coloured throughout the mass

Colour	Code
<b>Cream white</b>	<b>N 154</b>
<b>Natural grey</b>	<b>N 250</b>
<b>Anthracite</b>	<b>N 251</b>
<b>Rubin red</b>	<b>N 359</b>

There are 33 colours available in different semi-transparent tones

Colour	Code
<b>White191</b>	<b>N 191</b>
<i>Grey 291*</i>	<i>N 291</i>
<b>Grey292</b>	<b>N 292</b>
<i>Grey293*</i>	<i>N 293</i>
<i>Blue 491*</i>	<i>N 491</i>
<i>Green 591*</i>	<i>N 591</i>
<i>Green592*</i>	<i>N 592</i>
<b>Beige 891</b>	<b>N 891</b>
<i>Beige 892*</i>	<i>N 892</i>
<b>Black 071</b>	<b>N 071</b>
<i>Black 072*</i>	<i>N 072</i>
<b>Black 073</b>	<b>N 073</b>
<b>Grey 271</b>	<b>N 271</b>
<i>Grey 272*</i>	<i>N 272</i>
<b>Grey 273</b>	<b>N 273</b>
<i>Grey 281*</i>	<i>N 281</i>
<b>Grey 282</b>	<b>N 282</b>
<i>Grey 283*</i>	<i>N 283</i>
<b>Red 371</b>	<b>N 371</b>
<b>Red 372</b>	<b>N 372</b>
<b>Red 373</b>	<b>N 373</b>
<i>Blue 471*</i>	<i>N 471</i>
<i>Blue 472*</i>	<i>N 472</i>
<b>Blue 473</b>	<b>N 473</b>
<i>Green 571*</i>	<i>N 571</i>
<b>Green 572</b>	<b>N 572</b>
<i>Green 573*</i>	<i>N 573</i>
<i>Green 581*</i>	<i>N 581</i>
<i>Green 582*</i>	<i>N 582</i>
<i>Green 583*</i>	<i>N 583</i>
<i>Brown 971*</i>	<i>N 971</i>
<i>Brown 972*</i>	<i>N 972</i>
<b>Brown 973</b>	<b>N 973</b>

\* Minimum quantities apply.

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Consult with PBS Distributors for minimum quantities and lead times.  
Other colours are available on request in minimum quantities.

## 6. Technical properties (average values)

Density		: 1650 kg/m <sup>3</sup>
Bending strength (24h immersed in water)	//	: 24.0 N/mm <sup>2</sup>
	T	: 17.0 N/mm <sup>2</sup>
Modulus of elasticity		: 15000 N/mm <sup>2</sup>
Maximum water absorption after 24 hours		: < 1 %
Thermal expansion coefficient		: 10 x 10 <sup>-6</sup> m/mK
Thermal conductivity coefficient		: 0.6 W/mK
Frost resistance		: frost resistant
NZBC C/AS1 Table 7.5 Fire Behaviour		: Performance level A
Reaction to fire according to EN13501-1		: A2
Heat and smoke release rates AS/NZS 3837		: Performance level A

EUROPAN NATURA meets the requirements of the European Norm EN 12467 and is CE-marked.

## 7. Advantages

- No flame spread, no fume development, no toxic gasses
- Resistant to high temperatures
- Water resistant
- Resistant to fungus, bacteria, insects, vermin, etc.
- Resistant to many chemicals
- Environmentally friendly, no harmful gas emissions
- Frost resistant
- High dimensional stability
- Strong and rigid sheet
- Natural appearance enhanced by the semi-transparent coating
- EUROPAN NATURA PRO offers protection from graffiti.

## 8. Working guidelines

### Cutting:

- PBS Distributors operates a CNC waterjet cutting machine in Auckland that facilitates the cutting of intricate designs with minute tolerances. Please contact PBS Distributors for more information.

For on site cutting:

- On a **stationary saw**, slow rotation with tungsten carbide-tipped blade or fast rotation with a fluted diamond cutting blade.
- With a **hand circular saw** (with rail), slow rotation with tungsten carbide-tipped blade or fast rotation with a fluted diamond cutting blade.
- With a **jigsaw** with tungsten carbide-tipped tooth cutting blade

All power tools must be used over a guide. Tools must never be dragged across the surface of the sheets.

Edge finish:

- Use a fine emery cloth or sanding block
- After cutting the sheets on site, it is OBLIGATORY to treat all edges with the sealer EUROSEAL. The EUROSEAL sealer is used undiluted. Sealing must be done sheet by sheet and not a stack at a time.

Applying the sealer EUROSEAL

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- Draw the applicator in a small inclination with the edge, to avoid spots on the fair face of the sheet. EUROSEAL sealer running over the fair face of the sheet has to be wiped off immediately. Apply an even amount of sealer to completely cover the edge .Treated edges will become glossy. Re-apply when not.
- Never pour back surplus of EUROSEAL impregnator once the can has been opened.

#### Drilling:

- For holes: carbide tipped twist drill with a 60° nose angle
- For round apertures: cup drill or circular cutter, carbide-tipped

The sheet should be supported around the hole to be drilled (e.g. by a wooden surface).

- Cutting and drilling must take place in a dry environment. All residual dust must be removed immediately from the sheet with a dry towel to avoid permanent stains. Holes need to be sealed with EUROSEAL as described above.

#### Fixing:

The method and choice of the fixings (e.g. stainless steel, aluminium ...) is dependent on the application and the environment.

##### 1) Structural adhesive (concealed fixing):

EUROPAN NATURA can be fixed with a structural adhesive. The back of the sheet must be sanded (sand paper P80) and sealed at the area where the adhesive is applied. The only adhesive to be used is specified by PBS Distributors in accordance with the PBS Distributors application guidelines. Further information is available from PBS Distributors.

##### 2) Screwing:

Use screws as specified by PBS Distributors. On 40 mm thick timber battens use 60 x 10 swg stainless steel screws with a square drive and stainless steel cup washers. EUROPAN NATURA cannot be fixed with countersunk screws.

Sheets need to be predrilled with the appropriate diameter for fixed and sliding points.

Follow the fixing patterns as specified by PBS Distributors. Min distance to the edge of the sheet is 25 mm and 100 and 50 mm to the edges at the corner of the sheets.

##### 3) Riveting:

Aluminium or stainless steel rivets and cylinders in accordance with the PBS Distributors specifications are only possible on aluminium profiles with sufficient flange width. Please contact PBS Distributors for more information.

Sheets need to be predrilled with the appropriate diameter for fixed and sliding points. Follow the fixing patterns as specified by PBS Distributors. Min distance to the edge of the sheet is 25 mm and 150 and 50 mm to the edges at the corner of the sheets.

#### Caulking:

Only use products recommended by PBS Distributors. Non-neutral silicones or thiokols can result in staining.

#### Health and safety aspects:

While the sheets are being processed, dust will be released which may irritate airways and eyes. It is recommended that a minimum P2 dust mask and safety goggles be worn. Appropriate dust extraction or proper ventilation should be used depending on the room in which the work is being carried out or the equipment being used. Long-term exposure to dust may be harmful to health.

## 9. Maintenance and cleaning

For minor soiling, wash with a mild household detergent or soft soap solution followed by rinsing with clear water. Although the sheets come with a permanent surface finish, EUROPAN NATURA's surface is porous and cleaning requires chemical rather than a mechanical clean. No abrasive products or tools shall be used to clean the surface. Please refer to the PBS cleaning advice for more specific cleaning advice.

**Important remark: EUROPAN NATURA is pre-finished. Please consult PBS Distributors for the anti-graffiti protected EUROPAN NATURA PRO for a better protected surface. Applying additional coatings (such as anti graffiti coatings) on the product, will not be the responsibility of PBS Distributors.**

## 10. Handling

The sheets are packed on pallets. They must be kept dry during transport. The sheets must be horizontally stacked on a flat surface. The sheets must always be sufficiently supported so that they do not sag. The sheets must be stored in a dry ventilated space. If the sheets are stored outside, they must always be protected against rain by a tarpaulin or plastic sheet. If the sheets do become wet in the packing, all packaging must be removed and the sheets must be wiped dry and separated to dry completely. A sheet must always be lifted from a stack by two people and then be carried on edge.

## 11. Guarantee

The guarantee and the guarantee conditions are available on request from PBS Distributors,