

## 1 Product composition

BLUCLAD sheets consist of the following:

- Portland cement
- selected mineral fillers, including mica, providing extra high dimensional stability and low hygric movement
- organic reinforcing fibres
- functional additives

## 2 Production method

BLUCLAD sheets are manufactured on a Hatschek machine, autoclaved, sanded and rectified. The sheets are made water repellent on front and back by means of a hydrofobation.

## 3 Dimensions and tolerances

Thickness (mm)	10
Weight ex-works (kg/m <sup>2</sup> )	14.2

Dimensions and gross weight per sheet

Dimensions (mm)	Weight ex-works (kg/sheet)
1,250 x 2,500	44.2

Tolerances

Tolerances	Complies with EN 12467 (level I)
Thickness (mm)	± 0.5
Length and width (mm)	± 3
Squareness (mm/m)	1.0

Thicknesses, sizes and types of the sheets which differ from those available as standard from stock are available subject to minimum order quantities. Please contact EURO PANELS OVERSEAS NV for more information.

## 4 Colour

BLUCLAD sheets have a beige colour. Stains in the surface, for instance brown or white spots peculiar to the autoclave process, are occasionally possible and are inherent to the production.

## 5 Technical properties

Average values according to the European standard EN 12467 'Fibre-cement flat sheets', which describes classification and most testing methods.

<i>A. Testing according to ISO quality management system</i>				
Density	Dry	EN 12467	1,180	Kg/m <sup>3</sup>
Bending strength	Ambient, ⊥	EN 12467	23.0	N/mm <sup>2</sup>
	Ambient, //	EN 12467	17.0	N/mm <sup>2</sup>
Modulus of elasticity	Ambient, ⊥	EN 12467	10,000	N/mm <sup>2</sup>
	Ambient, //	EN 12467	10,000	N/mm <sup>2</sup>
Delamination resistance	Ambient		0.50	N/mm <sup>2</sup>
Hygic movement	0-100%, mean		1.20	mm/m
Porosity	0-100%		40	%
<i>B. Classification</i>				
Durability classification		EN 12467	Category B	
Strength classification		EN 12467	Class 2	
Fire reaction classification		EN 13501-1	A2-s1-d0	
<i>C. Type test or best estimate</i>				
Impermeability test		EN 12467	Ok	
Warm water test		EN 12467	Ok	
Soak dry test		EN 12467	Ok	
Freeze thaw test		EN 12467	Ok	
Thermal expansion coefficient	α		6.5*10 <sup>-6</sup>	m/mK
Thermal conductivity coefficient	λ		0.19	W/mK
Water vapour diffusion resistance	μ		17-21	-

## 6 Advantages

Providing the application guidelines are followed, EURO PANELS OVERSEAS NV fibre-cement sheets have the following superior mix of properties compared to other materials:

- fire safe (no fire ignition, no spread of fire)
- sound insulating
- resistant to extreme temperatures
- water resistant (if in compliance with application guideline)
- resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- resistant to many chemicals
- environmentally friendly, no harmful gas emissions

## 7 Applications

- Façade: backer board for render
- Outside ceiling: backer board for render

### **CAREFUL!**

Since the sheets are exposed to the weather conditions between assembling and finishing, they can absorb some moisture through the sheet edges and the surface. This could result in physic problems for the construction and differences in colors due to the humidity. Therefore it is advised to finish sheets according to the application guidelines within 4 weeks after the assembly.

BLUCLAD can only be rendered when the moisture content in the sheet is stabilised and is less than 18%. The moisture content can be measured with a hygrometer.

To prevent that the sheets become wet and have to dry afterwards, a rain protection can be provided after the assembly.

## 8 Application data

!!: Sawing and drilling must take place in a dry environment. For decorative applications, sawdust and drillings must be immediately removed from the sheet with a dry micro-fibre towel. Not removed sawdust and drillings can cause permanent stains.

During the mechanical machining of panels, adequate machinery with dust extraction and/or ventilation should be foreseen. If dust extraction is not efficient, dust masks of type FFP2 or better according EN149:2001 should be used.



### Cutting/Sawing:

When working on the sheet it must be sufficiently supported so that it does not sag. The sawing bench must be very stable and may not vibrate. The sheet may not be under tension when sawing. The sheet must be free of vibration and tension during sawing for a good saw cut. Cutting in the wrong way can cause delamination problems of the edge.

- Universal EURO PANELS OVERSEAS NV cutting blade (fast rotation) available at Leitz-Service, on stationary sawing machines or hand circular saw with rail  
Available diameters: 160, 190, 225 and 300 mm
- Jigsaw with carbide-tipped tooth cutting blade type T141 HM from Bosch (available from EURO PANELS OVERSEAS NV)
- cut and snap: cut both sides with draw-hook with carbide-tipped tooth and snap on a supported edge

### Drilling:

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

- for holes: carbide-tipped twist drill (or completely in carbide) with a 60° nose angle (available from EURO PANELS OVERSEAS NV)  
Available diameters: 5.0 – 6.0 – 7.0 – 8.3 – 9.5 – 11.0 mm
- for round apertures: circular cutter, carbide-tipped (e. g. type Pionier from Metabo)

### Edge finish:

- fine emery cloth or sanding block

### Fastening accessories:

BLUCLAD can be fixed with countersunk head screws in stainless steel (see application instructions for more information). Screwing can be done directly without predrilling.

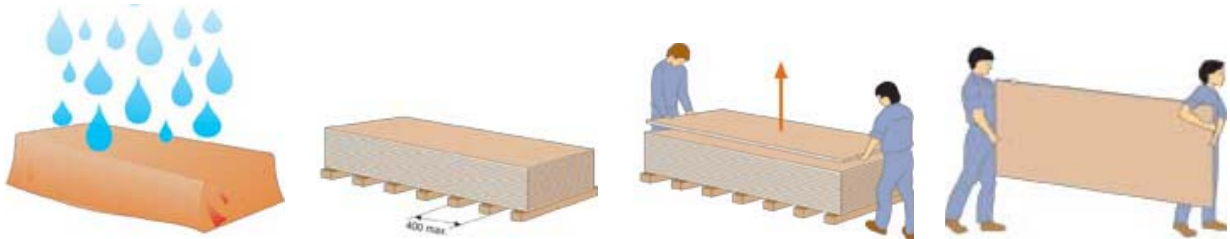
### Joint treatment:

See EURO PANELS OVERSEAS NV application guidelines.

### Sealant:

Only use neutral sealants. Non-neutral silicones or thiokols can result in spots.

## 9 Handling



The sheets are packaged on pallets. They are to be transported under a tarpaulin. 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 stacked in a dry ventilated space. If the sheets are stored outside, they must always be protected against rain by a tarpaulin or plastic cover. If the sheets do become wet in the packing, all packaging must be removed and placed in a way that they can dry out thoroughly. It is recommended to allow the sheets to acclimatise in the space where they are to be used. A sheet must always be lifted from a stack by two persons and then be carried vertically. A foil always has to remain between the stacked sheets in order to prevent paint damage.

## 10 Health and safety aspects

During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. Apart from this, the inhalation of fine (respirable size) quartz containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer. Depending on the working conditions, adequate machinery with dust extraction and/or ventilation should be foreseen. For more ample information, please check the Safety Data Sheet according to 91/155/EEC.

## 11 Warranty

The warranty on the product is only valid if the EURO PANELS OVERSEAS NV application guidelines are respected. If in any doubt regarding the suitability of EURO PANELS OVERSEAS NV sheets in any given application, it is advisable to request specific recommendations from EURO PANELS OVERSEAS NV. Under no circumstances can EURO PANELS OVERSEAS NV be held liable for applications of their sheets implemented without approval from EURO PANELS OVERSEAS NV.

## 12 Certification

The manufacturer is able to deliver the CE declaration in terms of the European Construction Products Directive, which guarantees the conformity to the standard NBN EN 12467 "Fibre-cement flat sheets". The manufacturer is also ISO certified.



## 13 More information

Information about the various applications can be found in the EURO PANELS OVERSEAS NV application guidelines. They can be found on the website or be obtained on demand by phone. Information about external suppliers can also be downloaded from the website.

This product information sheet replaces any previous editions. EURO PANELS OVERSEAS NV reserves the right to amend this information sheet without prior notice. Readers should always satisfy themselves that they are referring to the most recent version of this document. No part of this text can be changed without permission of EURO PANELS OVERSEAS NV.

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