

## 1. Description

---

### Viroc® Cement-bonded Particle Board

Viroc Nature is a composite panel consisting of a mixture of wood particles and cement called the Cement Bonded Particle Board (CBPB). It combines the flexibility of wood with the strength and durability of cement, allowing a wide range of applications both indoors and outdoors. The production of Viroc Nature panel complies with the specifications of EN 634 and EN 13986 standards and carries the CE Marking Certificate.

The Viroc Nature panel has a heterogeneous appearance with different shades randomly dispersed, resulting from the natural colours of the raw materials used and the chemical reactions. Tone differences may be observed on the same face, between the faces of the same panel or between different productions batches.

Viroc panels are supplied raw, without finishing. The surfaces have irregularities and imperfections, such as, marks, scratches and salts.

## 2. Applications

---

The Viroc Nature Panel is to be used as a finishing element for interiors and exteriors.

## 3. Colours

---

Black (NG).

## 4. Thickness and thickness tolerance

---

12mm,  $\pm 1.0$  mm

## 5. Dimension

---

1200 x 600 mm

## 6. Cutting tolerances

---

Length and width:  $\pm 3$  mm

Edge straightness:  $\leq 1,5$  mm/m

Squareness:  $\leq 2,0$  mm/m

## 7. Weight

---

Weight per square meter, 16.2 kg/m<sup>2</sup>;

Panel weight (1200x600 mm), 11.7 kg.

Availability on request

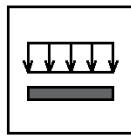
## 8. Characteristics



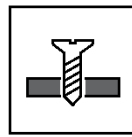
Non-toxic



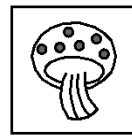
Soundproof



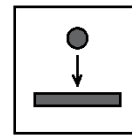
Resistant to loads



Easily installed



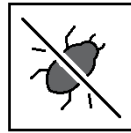
Fungi resistant



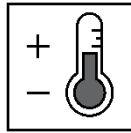
Impact resistant



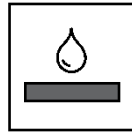
Fire resistance



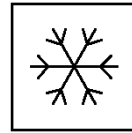
Termite resistant



Thermal insulation



Outdoor use



Frost resistant

## 9. Properties

Property	Unit	Value	Standard
Density	kg/m <sup>3</sup>	1350 ± 100	EN 323
Flexural strength	N/mm <sup>2</sup>	9	EN 310
Flexural Modulus Class 1 Class 2	N/mm <sup>2</sup>	≥ 4500 4000 a 4500	EN 310
Internal bond	N/mm <sup>2</sup>	0.5	EN 319
Swelling 24h	%	1.5	EN 317
Internal bond after cyclic test	N/mm <sup>2</sup>	0.3	EN 319 + EN 321
Swelling after cycling test	%	1.5	EN 317 + EN
Moisture content at origin	%	6 - 12	EN 322
Surface alkalinity	PH	11 - 13	-
Thermal conductivity (*)	W/m.K	0.22	EN 12664
Superior calorific power, SCP (*)	MJ/kg	4 ± 0.5	EN ISO 1716
Fire reaction		B-s1,d0	EN 13501
Sound insulation index (*)	Rw (C;Ctr) (dB)	33 (-1;-3)	EN ISO 140-1,2,3 e EN ISO 717-1

(\*) Tests carried out in grey Viroc panels

Formaldehyde: Class E1 (EN 13986-Annex B); No added formaldehyde.

Pentachlorophenol: Don't contain.

Asbestos: Don't contain.

Silica: Contains silica remnants from cement.