



### Description

#### Viroc® Cement Bonded Particle Board

Viroc is a composite material, composed by a compressed and dry mixture of pine wood particles and cement. It presents a non-homogeneous appearance, a product natural feature, and it is produced in several colours. Viroc can be factory calibrated / sanded (for applications requiring tighter tolerances). Once calibrated, presents visible wood particles on the surface.

### Applications

Outdoor and Indoor: facades, walls, flooring, roof structures, ceilings, furniture, interior design, urban equipment, lost formwork and other applications.

Colours / Unsanded thicknesses (mm)	8	10	12	16	19	22	25	28	32	Dim. (mm)
Black NG	•	•	•	•	•	•	•	•	•	3000 x 1250 2600 x 1250
Grey CZ	•	•	•	•	•	•	•	•	•	
White BR			•	•						2600 x 1250
Ocher AC			•	•						
Yellow AB			•	•						
Red VM			•	•						

### Dimensions

2600 x 1250 mm / 3000 x 1250 mm  
Other dimensions under request.

### Tolerances and thicknesses

Width and length: ± 3 mm

Edge straightness: < 1,5 mm/m

Squareness: < 2,0 mm/m

Unsanded (mm)	8	10	12	16	19	22	25	28	32
Tolerance (mm)	± 0,7		± 1,0	± 1,2		± 1,5			
Sanded (mm)	8	12	15	18	21	24	28	32	
Tolerance (mm)	± 0,3								



## Properties

Feature	Unit	Value	Standard				
Density	Kg/m <sup>3</sup>	1350 ± 50	EN 323				
Swelling (24 hours)	%	1,5	EN 317				
Moisture content at dispatch from manufacturer	%	9 - 12	EN 322				
Modulus of elasticity	N/mm <sup>2</sup>	4500	EN 310				
Internal bond	N/mm <sup>2</sup>	0,50	EN 319				
Bending strength	N/mm <sup>2</sup>	9	EN 310				
Superficial alkalinity	pH	11 - 13	-				
* Thermal conductivity	W/m.C	0,22	EN 12664				
* Higher heating value, PCS	MJ/Kg	4 ± 0.5	EN ISO 1716				
Water vapour resistance factor		Wet cup $\mu = 30$ Dry cup $\mu = 50$	EN 12524				
		< 16 mm = 0,6 mm/min. ≥ 16 mm = 0,5 mm/min.	DTU p 92-703				
* Reaction to fire		B - s1, d0 Class O	EN 634 - 1 EN 13501 - 1 BS 476: Part 7				
Coefficient of sound absorption		250Hz - 500Hz $\alpha=0,10$ 1000Hz - 2000Hz $\alpha=0,30$	EN 13986				
* Weighted sound reduction index	Thickness (mm) Rw (C; Ctr) (dB)	8 31(-1;-3)	10 32(-2;-3)	12 33(-1;-3)	16 35(-2;-3)	19 35(-1;-2)	22 37(-2;-3)

\* Tests performed on Viroc Grey boards.

## Advantages



Non Toxic



Sound  
Insulation



Weight  
Resistant



Easy  
Installation



Fire Retardant



Moisture  
Resistant



Thermal  
Insulation



Insect  
Resistant

## Certifications

Viroc holds CE marking, ICC and UL certification.