



## 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
<b>Black</b> NG	•	•	•	•	•	•	•	•	•
<b>Grey</b> CZ	•	•	•	•	•	•	•	•	•
<b>White</b> BR		•	•	•	•				
<b>Ocher</b> AC		•	•	•	•				
<b>Yellow</b> AB		•	•	•	•				
<b>Red</b> 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				
* Reaction to fire		< 16 mm = 0,6 mm/min. ≥ 16 mm = 0,5 mm/min. B - s1, d0 Class 0	DTU p 92-703 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.