



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
Black NG	•	•	•	•	•	•	•	•	•
Grey CZ	•	•	•	•	•	•	•	•	•
White BR		•	•	•	•				
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)	$\pm 0,7$		$\pm 1,0$	$\pm 1,2$			$\pm 1,5$		
Sanded (mm)	8	12	15	18	21	24	28	32	
Tolerance (mm)				$\pm 0,3$					



Properties

Feature	Unit	Value	Standard				
Density	Kg/m ³	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 ²	4500	EN 310				
Internal bond	N/mm ²	0,50	EN 319				
Bending strength	N/mm ²	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 0	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