



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)	± 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 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 μ = 30 Dry cup μ = 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.