

Hempboard 350

It is the lightest version in the product range. It is made with larger granulometry particles to maintain its density. Thanks to its thermal resistance and breathability characteristics, it makes it an excellent insulator for green construction. Furthermore, by virtue of its porous structure, it has a high acoustic absorption capacity that allows its application as a ceiling panel.

Aplications :

- Suitable for use as an enclosure panel in interior and exterior insulation solutions.
- Applications in which acoustic and thermal performance are mainly required.



Hempboard 700 with clay

This board results from the union of hemp biomass and clay (raw soil). Collaborative material, non-bearing, for use in high thicknesses. The breathability and hygrothermal capacity of the board, used as an interior lining, guarantees a stable and comfortable microclimate. The high density protects against polluting factors present in the atmosphere, reduces electromagnetic pollution, offering excellent acoustic insulation and positively affecting the phase change and heat attenuation of the wall. Raw soil is a perfect humidity regulator, capable of counteracting mold growth, neutralizing odors and making the air healthier.. <u>Aplications :</u>

- Suitable for use as an enclosure panel in interior insulation solutions.
- Applications in which mainly thermal, acoustic and absorbent benefits are required (water vapor, odors).
 The panels can be applied directly to the wall using expansion screws. Fixation to structures is done with screws



Hempboard 1000

It is a board that adds to the important health and breathability properties of the 350 version, with much greater mechanical characteristics, resistance to water and fire. Precisely by virtue of these, it is possible to reduce the sections of the supporting frame structures, contributing to structural bracing and acoustic wall insulation. <u>Aplications :</u>

- It can be used as a bracing panel in structures, as a panel in ventilated facades, on pavements and on roofs.
 It was designed to be used in roof systems, attics, as a substitute for other wood panels, as an ennobling
- material. It cannot be used as a structural panel but rather as a collaborative *

* With prior authorization.

		ASPECT AND PROPERTIES TABLE			
Гуре		350	700 (with clay)	1000	
Formats (mm)			600x1200		
Thickness (mm)		25, 30, 40, 50, 60	22	10, 12.5, 15, 20	
		COMPOSITION			
Density (kg/m3)		350	700	1000	
Residual moisture content		9-11%	8-10%	9-11%	
Board surface finishes		without sanding			
Thickness tolerance		±2 mm	±2 mm	±2 mm	
Dimensional tolerance		Length/Width ± 2 mm / diagonal < 3 mm	Length/Width ± 2 mm / diagonal < 3 mm	Length/Width ± 2 mm / diagonal < 3 mm	
Class of reaction to fire	EN 13501-1	C, s1 - d0	B, s1 - d0	B, s1 - d0	
Acoustic isolation		to consult			
Vater vapour diffusion resistance factor	EN 12572	μ = 6,6	μ = 12,3	μ = 23,3	
Absorption after 24h under water	EN 12087	100,00%	55,50%	24,80%	
Swelling after 24 hours under water	EN 317	< 5% (2,7%)	< 8% (6,1%)	< 5% (2,9%)	
Thermal conductivity	EN 12667	λ = 0,09 W/mK	λ = 0,129 W/mK	λ = 0,165 W/mK	
Thermal expansion coefficient	ASTM E228	-66 10-6 K-1	-60 10-6 K-1	-37 10-6 K-1	
Formaldehyde level		FREE	FREE	FREE	
Standard color		Beige / natural tone	Grey / Beige / natural tone	Beige / natural tone	
		MECHANICAL QUALITIES			
		Load perpendicular to the board plane			
Compression strength (N/mm2)	EN 310	1,1	1,5	10,4	
Flexural strength (N/mm2)	EN 826	1,4	2,5	6,9	
Modulus of elasticity for bending (N/mm2)	EN 310	292	442	2455	
		Screw removal resistance			
Perpendicular to the surface (N)	EN 320	337	684	1059	

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