

**ALMA**

**VERT**



**Highly efficient  
thermal break**



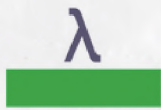
**Excellent  
mechanical strength**



**High compressive  
strength**



**Permeable to water  
vapor diffusion**



**Excellent thermal  
conductivity /  
R-value**



**Lightweight  
composite  
structure**



**Low water  
absorption**



**Environmentally-friendly  
core material  
(100% recyclable)**



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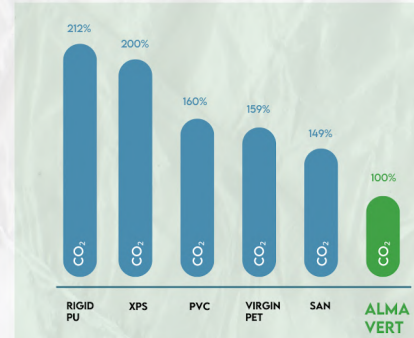
# STRENGTH, INSULATION, PROTECTION

## MATERIAL COMPLIANT WITH NEW ENERGY CODES

This raw material comprises production waste sourced from PET bottles. After the product reaches the end of its lifecycle, it can undergo recycling for reuse once more. Numerous tests have confirmed that the material is free of emissions during installation and later use. ALMA VERT meets all the conditions required to be installed in low-energy building projects.

### LOWEST CO<sup>2</sup> EMISSION PROCESS TECHNOLOGY

100% recycled PET bottles are used as the base raw material, CO<sub>2</sub> emissions are significantly reduced and satisfies industry standards for the design of recyclable, lightweight, and long-lasting composite structures.



PANEL DENSITY			115	200	350
DENSITY	ISO 845	kg/m <sup>3</sup>	115	200	350
		lb/ft <sup>3</sup>	7.2	12.5	20.0
COMPRESSION STRENGTH	ISO 844	MPa	1.8	4.0	7.0
		psi	260	580	1015
COMPRESSION MODULUS	ISO 844	MPa	175	230	320
		psi	25'380	33'360	46'410
SHEAR STRENGTH	ISO 1922	MPa	0.95	1.75	2.1
		psi	140	255	305
SHEAR MODULUS	ISO 1922	MPa	26	51	90
		psi	3'770	7'395	13'050
SHEAR STRAIN	ISO 1922	%	10	5	2
TENSILE STRENGTH	ASTM C 297	MPa	2.9	3.9	4.8
		psi	420	565	695
TENSILE MODULUS	ASTM C 297	MPa	140	235	350
		psi	20'300	34'075	50'750
THERMAL CONDUCTIVITY	AT 23°C AT 73.4°F	W/(m·K)	0.034	0.043	tbd
		BTU.in/ FT <sup>2</sup> .hr.°F	0.236	0.298	tbd
REACTION TO FIRE	EN 13501-1	Class	E (6)	E (6)	E (6)

### STANDARD DIMENSIONS

**\*1220 X 1005 X 50MM**

4' X 3'4" X 2"

**\*1220 X 1005 X 75MM**

4' X 3'4" X 3"

### FIELDS OF APPLICATION

- Internal and external use
- Thermal separation
- Thermal bridge - free installation of all building elements, according to DIN4108

\*Other dimensions are available upon request

### CHOOSE THE RIGHT PANEL

- ALMA VERT is manufactured in 3 different density classes:

- 115 kg/m<sup>3</sup>,
- 200 kg/m<sup>3</sup>
- 350kg/m<sup>3</sup>

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