# Partel

# ALMA
## VERT

# RECYCLED PANEL FOR HIGH-PERFORMANCE STRUCTURAL INSULATION

An innovative PET-based panel made of up to 100% recycled material. This NEW sustainable alternative to conventional construction materials meets the highest technical and ecological standards for reducing thermal bridges.

Owing to its versatility, being lighter, more compact and with a lower thermal conductivity, this product is designed to improve the energy efficiency of the building.

CE

ARCHITECTURE +BUILDING EXPO 2021 COMMENDED
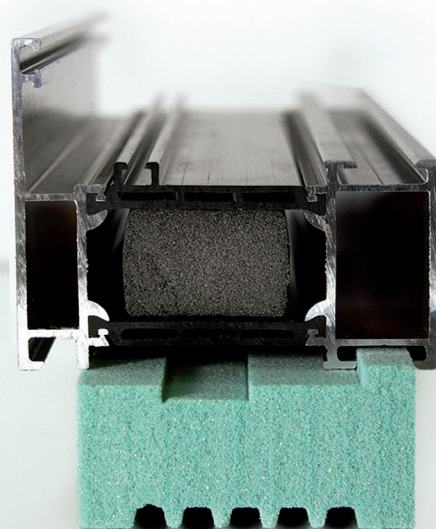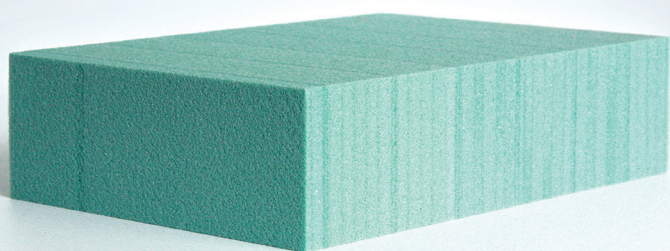
# MATERIAL COMPLIANT WITH THE NEW ENERGY CODES

The raw material consists of production waste from PET bottles. Once the product has completed its useful life, it can be recycled again.

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.

## KEY ADVANTAGES, ALL IN ONE PANEL– STRENGTH, INSULATION, PROTECTION

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)

| PROPERTIES | PANEL DENSITY | | UNIT | STANDARD |
|---|---|---|---|---|
| | 115 | 180 | | |
| COMPRESSIVE STRENGTH (PERPENDICULAR) | 1.5 | 3.2 | N/MM² | EN 826 |
| E-MODULUS COMPRESSION (PERPENDICULAR) | 67 | 118 | N/MM² | EN 826 |
| THERMAL CONDUCTIVITY | 0.036 | 0.043 | W/ (M . K) | EN 12667 |
| SD VALUE | 16.8 | 38.3 | $S_d$ | EN-1931 |
| BUILDING MATERIAL CLASS / FIRE BEHAVIOR | E | E | – | EN 13501 |
| ABSORPTION OF WATER (AFTER 7 DAYS WATER STORAGE) | CA. 2,0 | CA. 2,0 | VOL.-% | INTERNAL |

## CHOOSE THE RIGHT PANEL FOR YOUR PROJECT

ALMA VERT is manufactured in two different density classes 115 kg/m³ and 180 kg/m³.

## STANDARD DIMENSIONS

### 1218 X 1005 X 50MM
(4' X 3' 4" X 2")

### 1218 X 1005 X 75MM
(4' X 3' 4" X 3")

*Other dimensions are available on request

## REAL FACTS

⊘ 25 X 1.5 L PET BOTTLES PRODUCE 4.5 x 35 x 35 cm / 1' x 1' x 2" ALMA VERT BOARD

## FIELDS OF APPLICATION

⊘ Internal and external use

⊘ Thermal separation

⊘ Thermal bridge - free installation of all building elements, according to DIN4108