

## Omnex Classic

### Material description

The Omnex panel is a composite of recycled glass and minerals. The panel is lined on both sides with fibre-glass. The right combination and composition results in an Omnex panel that has unique features and advantages for wall and ceiling structures.

The Omnex panel is a versatile construction panel which saves you time and can be used as support for various finishing materials such as plaster, decorative plaster, natural stone, wallpaper, industrial products, metal, tiles, etc.

### Application areas

- › Façades
- › Interior wall cladding
- › Exterior wall cladding
- › Damp spaces
- › Multifunctional technical applications (timber frame construction, catering, hospitals, sandwich panels, etc.)



Dimensions	8 mm	10 mm	12 mm	20 mm
› 1200 x 800 mm	X	X	X	X
› 1200 x 2400 mm	X	X	X	X
› 1200 x 2600 mm	X	X	X	X

\* Other desired sizes are possible.

› dimensional tolerances: length and width:  $\leq 1$  mm

thickness:  $\leq 0.5$  mm

### Storage and delivery

The Omnex panels are packaged horizontally and delivered on pallets. The pallets are covered. The panels must always be stored horizontally on a flat surface. Vertical storage may cause deformation of the panels or damage to the edges and corners. Always carry loose panels vertically.

Outdoor panel storage is possible; however, due to subsequent surface treatment, the panels must be safeguarded with a cover.

## Properties



**Multifunctional**  
suitable for inside  
and outside application



**Light**  
very easy to  
process and carry



**Vapor permeable**  
ensures natural  
regulation of damp  
and heat



**Strong**  
robust and high  
impact-resistance



**Flexible**  
convenient for making  
round arches or lining  
bath edges



**Insulating**  
has acoustic absorption  
and thermally insulating  
capacities



**Water and frost resistant**  
suitable for installation in wet  
spaces and resistant  
to extreme cold



**Resistant to mould**  
suitable for the medical  
and food sectors



**Environmentally-friendly**  
made from recycled glass,  
making the panels sustainable  
and healthy for the residential  
environment

## Material characteristics

Test	Standard	Result
> Density		550 kg/m <sup>3</sup>
> Bending tensile strength	NBN EN 12467	+ /- 9 N/mm <sup>2</sup>
> Elastic modulus	NBN EN 12467	+ /- 1800 N/mm <sup>2</sup>
> Compressive strength	NBN EN 789	+ /- 7 N/mm <sup>2</sup>
> Dimensional changes (length) between 65% and 85% relative humidity (mm/m)	EN 318	0,4 mm/m
> Dimensional changes (thickness) between 65% and 85% relative humidity (mm/m)	EN 318	0,2%
> Thermal conductivity	DIN EN 12667/ISO 8301	At 10°C: 0,12 W/(m*K)
> Coefficient of thermal expansion	EN 13471	6,8 x 10 <sup>-6</sup> 1/K
> Water vapour diffusion resistance factor $\mu$	NBN EN 12572	21
> $R_w$	NBN EN ISO 10140-2: 2010 NBN EN ISO 717-1: 2013	18 dB
> Fire class	EN-13501-1	C-S2, D0
> ETA	EAD no...	Ongoing
> VOC emissions		Complies with the French A <sup>+</sup> classification, is compliant with the German legislation and the low emission material specifications of BREEAM-NOR and the Natureplus label.