

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: ≤ 1 mm

thickness: ≤ 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 ³
> Bending tensile strength	NBN EN 12467	+ /- 9 N/mm ²
> Elastic modulus	NBN EN 12467	+ /- 1800 N/mm ²
> Compressive strength	NBN EN 789	+ /- 7 N/mm ²
> 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 ⁻⁶ 1/K
> Water vapour diffusion resistance factor μ	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 ⁺ classification, is compliant with the German legislation and the low emission material specifications of BREEAM-NOR and the Natureplus label.