OMNEX
expanded glass panels

Product Sheet

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 finishingmaterials 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
600 x 2600 mm	X	X	X	X
600 x 2400 mm	X	X	X	X

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.

Avenue Alexandre Fleming 1
1348 Ottignies-Louvain-la-Neuve, Belgium
info@omnex-panels.com
www.omnex-panels.com

Properties

Multifunctional
suitable for inside and outside application

Light
very easy to process and carry

Breather membrane
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/m3
Bending tensile strength	NBN EN 12467	+ /- 9 N/mm2
Elastic modulus	NBN EN 12467	+ /- 1800 N/mm2
Compressive strength	NBN EN 789	+ /- 7 N/mm2
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: 0,165 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

Tested on 10 mm thickness
latest version: 18/02/2019
www.omnex-panels.com