

KEMREX



Chemically strengthened glass

Kemrex chemically strengthened glass is a reinforced glass manufactured using a chemical treatment in a hot salty bath. The treatment involves an ion exchange between salt and glass across the entire surface of the glass, resulting in greatly enhanced mechanical performance in terms of surface bending strength.

Chemically strengthened for enhanced mechanical and bending performance

What's so special about it?

What does this mean for you?

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| Increased mechanical strength | – Chemically strengthened glass can withstand higher impacts and deformation compared to toughened safety glass of the same thickness |
| Thinner glass | – Chemically strengthened glass offers the same performance level at lower thicknesses
– Weight reduction |
| Perfect flatness | – Chemical strengthening does not induce any optical distortion in the float glass
– Optical quality is similar to annealed glass |
| Multiple applications | – Can be used in building facades as well as interior applications |
| Can be turned into a safety product | – Can be assembled as a glass component in laminated safety glazing |
| Specialised support and know-how | – Support provided for integrating chemically strengthened glass in your solution |

Technical specifications

Young's modulus (prEN 16612:2015; for wind gusts of 5 seconds)	113 MPa for chemically strengthened glass 88 MPa for toughened safety glass 25 MPa for annealed float glass
Sizes	Maximum: 2000 mm x 3000 mm depending on glass thickness
Resistance to temperature change	Capable of resisting sudden temperature fluctuations and temperature differentials up to 300°C

Processing options

Kemrex is a finished product delivered in cut sizes or assembled into laminated safety glass or insulating glazing. It is not suitable for further processing. During storage and handling, the edges and surface must be properly packaged in order to prevent damage.

Availability

Kemrex is available in a wide range of thicknesses from 1 to 19 mm and is normally made of Planibel Clearlite (Planibel Clearvision upon request).

Important Notice

Upon request, the depth of chemical strengthening can be measured and appended as a QAS report to the delivery.

Applications

- Stratobel Security bulletproof range (StopX series)
- Heated panels for visual control rooms
- Windscreens for rolling stock (trains, trams, etc.)
- Special glass applications in industrial applications
- Marine applications

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