

LITE-FLOOR® Xtreme

Walkable laminated safety glass with maximum shear capacity and improved lamination characteristics.



- thinner glass
- increased structural integrity
- larger sizes
- minimal moisture ingress, no de-lamination at the edges

Overview of single span glass for interior applications

Without protective top sheet to ONORM B 3716-4

Taking account of loads in accordance with ONORM B 1991-1-1:

Point-load Q_k 2.0 kN or distributed load q_k up to 4.0 4,0 kN/m²

| Type LITE-FLOOR Xtreme | span mm | glass width mm | weight kg/m ² |
|------------------------|---------|----------------|--------------------------|
| 18/2 | 800 | ≥ 270 | 43 |
| 22/2 | 1250 | ≥ 270 | 53 |
| 26/2 | 1750 | ≥ 270 | 63 |
| 27/3 | 1700 | ≥ 270 | 67 |
| 33/3 | 2600 | ≥ 270 | 82 |
| 39/3 | 3600 | ≥ 270 | 97 |

Composition: Top sheet Fully Tempered, lower sheet(s) Heat Strengthened

Dimensioning

For analysis of 4-sided supported glass, double-spans and/or higher loads please contact us.

Tested safety

LITEFLOOR® Xtreme is a CE marked laminated safety glass in accordance with EN 12543-4. Based on long-term durability and load tests we have received certification for suitability GZ 07-0137 in accordance with ONORM B 3716-4 for walkable glazing.

Slip-resistance

The Austrian Institute for Building Technology (OIB) requires, as part of its regulation clause 4 Pt. 3, all applications of walkable glass to have a slip-resistant surface. (Most International codes also require this.) The requirement is generally achieved with a slip-resistance class of R10 (German Standard) or a coefficient of 0.5 (ASTM). We therefore recommend that the upper sheet have a tested surface design – printed or etched – from the LITE-FLOOR product range.

Technical information

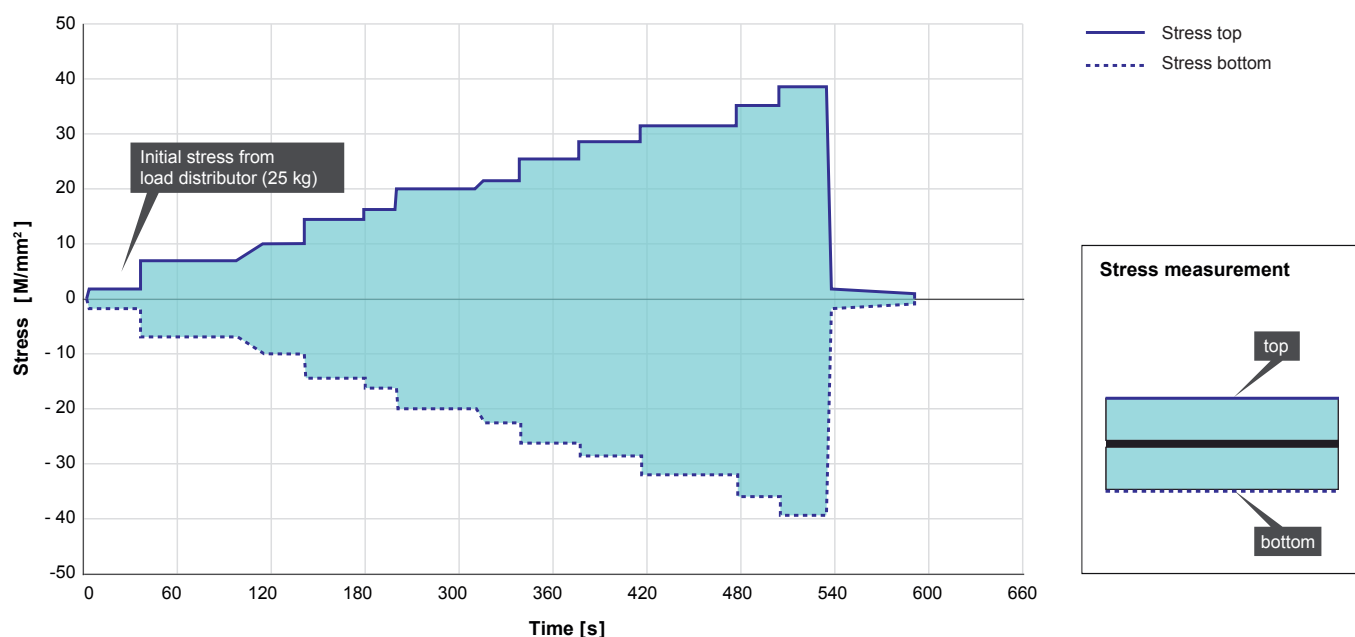
Dimensions:

max. 3600 x 2000 mm
min. 300 x 450 mm

Function:

The significantly higher stiffness and tear-resistance of the Ionoplast interlayer has significantly better load-bearing and deformation characteristics than PvB interlayers. At 30 °C ambient temperature it is comparable to a sheet of float glass of the same thickness.

Uniform stress distribution through the Ionoplast



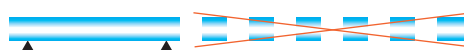
LITE-FLOOR® Xtreme in comparison – Single spans

Until recently, most walkable laminated safety glass has been produced using PvB interlayers. The difference with LITE-FLOOR® Xtreme is shown in the following comparison of a stair tread of glass.

LITE-FLOOR® Xtreme 27/3



Laminated safety glass with PvB 27/3



| Type | span mm | glass width mm | composition |
|--------------------------|---------|----------------|----------------------|
| LITE-FLOOR® Xtreme 27/3 | 1700 | 300 | 3 x 8 TVG / 1.52 SG |
| Laminated glass PvB 27/3 | 600 | 300 | 3 x 8 TVG / 1,52 PvB |

Application technical notes:

We recommend use of tested sealants such as neutral silicones from Dow Corning (DC 1-part 791, DC 1-part 895, DC 2-part 993). Otherwise our General Condition for Glazing and Installation notes for LITE-FLOOR apply.