

# Termodin/air\

## Information about northlight glazing



Large illustration: Lumira™-filled multiwall panels replace the wired glass after renovation.



Northlight glazing before ...



... and after the redevelopment



Northlight glazing for a textile factory

## Information about northlight glazing

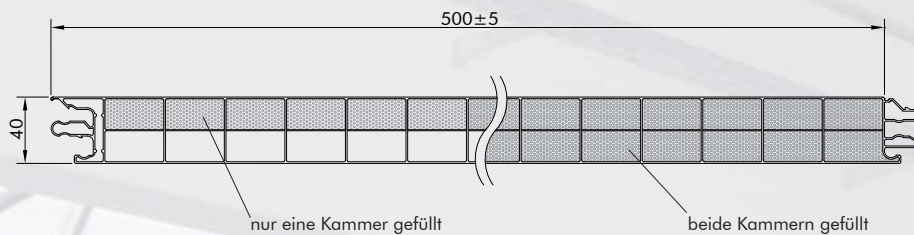
Our product range also includes northlight glazing. Again, we rely on the advantages of multiwall panels. We use panel thicknesses between 16 mm and 40 mm depending on the requirements. Glazing-bar-free glazing is possible using a 40 mm click system, which we also use for façade glazing. Natural smoke and heat extractors as well as ventilators can be integrated into the northlight glazing without difficulty. Opal polycarbonate panels prevent glare. Optimum light-scattering properties combined with excellent thermal insulation can, however, be achieved using a Lumira™ aerogel filling. It is possible to fill only one chamber or, alternatively, the whole polycarbonate panel.

### Advantages:

- Reduced loading due to the lower weight
- Glare-free when Opal or Lumira™ aerogel-filled panels are fitted
- High thermal-transmittance values: Up to 1.1 W/m<sup>2</sup>k without Lumira™ and 0.54 W/m<sup>2</sup>k with Lumira™ filling for 40mm multilayer panels
- High sound insulation values: Above 22 dB (with Lumira™: + 3 dB)
- Fire classification: B-s1, d 0 (B-s2, d0 for opal) according to EN13501
- Effective UV protection due to the co-extrusion process
- Problem-free integration of natural smoke and heat extractors and also ventilators
- Low-cost alternative to glass

### U-values of the various panels:

Plate thickness	Light transmission in % (for transparent multiwall panels)	U-value in W/m <sup>2</sup> K
16 mm	59	1.82
+Lumira™	57	1.31
20 mm	58	1.67
+Lumira™ not available	---	---
25 mm	40	1.50
+Lumira™	32	0.89
32 mm	48	1.10
Lumira™ not available	---	---
40 mm	59	1.20
+ Lumira™	20	0.54



40 mm click panel allowing glazing-bar-free northlight glazing.