

Performance

Tested and classified

Due to the concept of prefabrication, we are able to test our products extensively against all thinkable hazards and stressful events. Tests are performed in controlled environments and even if only one component is investigated, results refer to all within our skylight

concept. All products are manufactured, assembled and delivered from the same heavily controlled production line, leading to components with completely identical properties.



Watertightness

Classification: EN 12208:2000

VELUX modular skylights: E900

No water penetration up to 900 Pa.
900 Pa equals 134 Km/h (37.2 m/s).
(Hurricane = 32 m/s).



Resistance to Wind Load

Classification: EN 12210:2001

VELUX modular skylights: Class C5

Frontal deflection measured at 2000 Pa is less than $L/300$.
(L = span length).



Air Permeability

Classification: EN 12207:2000

VELUX modular skylights: Class 4

Highest air permeability classification
Draught measured to less than $2.6 \text{ m}^3/\text{hm}$ through joints at peak pressure.



Electromagnetic compatibility (EMC)

All electrical components are rigorously tested and comply with relevant EMC standards.



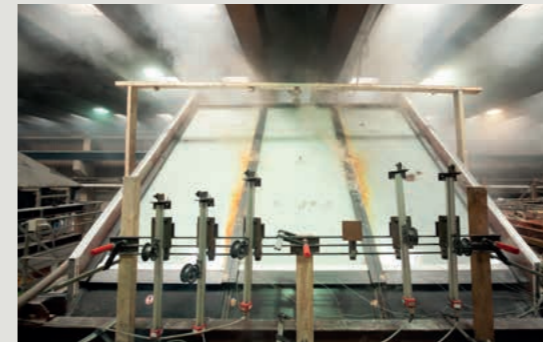
External Fire Performance

Classification: EN 13501-5 + A1:2009

VELUX modular skylights

B_{ROOF} (t1): No penetration or burning droplets.

B_{ROOF} (t4): No penetration of roof system within one hour.



Reaction to Fire

Classification: EN 13501-1:2007 + A1:2009

VELUX modular skylights: Clas B

Slow development of fire and moderate heat release.



Resistance to Fire

Classification: EN 13501-2:2007+A1:2009

Fixed fire resistant module (HFS): REI30

Venting fire resistant module (HVS): EI30



Strength

Ultimate strength under control

Flexural strength of the VELUX composite: 1000 N/mm^2



Safety at work

Fall-through protection

- DGUV Certificate (DE)
- NARM ACR fragile roofing assembly Class A
- CWCT TN 66/67 Class 2

Walking on VELUX Modular skylights is not allowed however, by holding above certificates VELUX Modular Skylights offer enhanced protection against fall through during installation and maintenance.