

LK

Skylights



Skylights are the perfect solution for illuminating interior spaces with natural daylight while simultaneously improving energy efficiency. They not only provide light but also offer additional functions such as smoke and heat exhaust ventilation (SHEV) or safe roof access. Whether for commercial buildings, industrial halls, or residential properties, skylights are versatile, aesthetic, and functional. With various options, such as fixed skylights, skylights with SHEV, and skylights with roof access (LK-DA), customized solutions can be realized for virtually any construction project.

Typical Applications

Skylights are used in a wide range of buildings to optimize the use of daylight and provide added functionality. In industrial and commercial buildings, they enhance lighting conditions and energy efficiency. In public buildings such as schools or shopping centers, they create bright, welcoming spaces. In residential buildings, roof-access skylights (SK-RA) offer convenient access to the roof, while skylights with SHEV systems (smoke and heat exhaust ventilation) ensure safety in the event of a fire.

CE CERTIFIED
EN 12101-2

Fixed Skylight (SK fixed):

A cost-effective and low-maintenance solution for maximum daylight transmission. Ideal for buildings where no additional functions such as opening or ventilation are required.

Optional with SHEV (LK-RWA):

Integrated smoke and heat exhaust ventilation (SHEV) systems ensure rapid smoke extraction in the event of a fire and comply with the requirements of EN 12101-2. Also suitable for daily ventilation..

Optional with Roof Access (LK-DA):

Combines the benefits of a skylight with safe and convenient roof access for maintenance work and inspections.

High-Quality Materials

that are resistant to weather influences and mechanical stress.

Skylight dome: Durable, UV-resistant materials such as polycarbonate or acrylic glass.

Upstand / curb: GRP- or steel constructions.

Thermal Insulation and Security:

Multi-layer constructions provide good insulation performance, with optional burglary-resistant features available.

Easy Integration:

Suitable for use on almost all roof types, including flat and pitched roofs.

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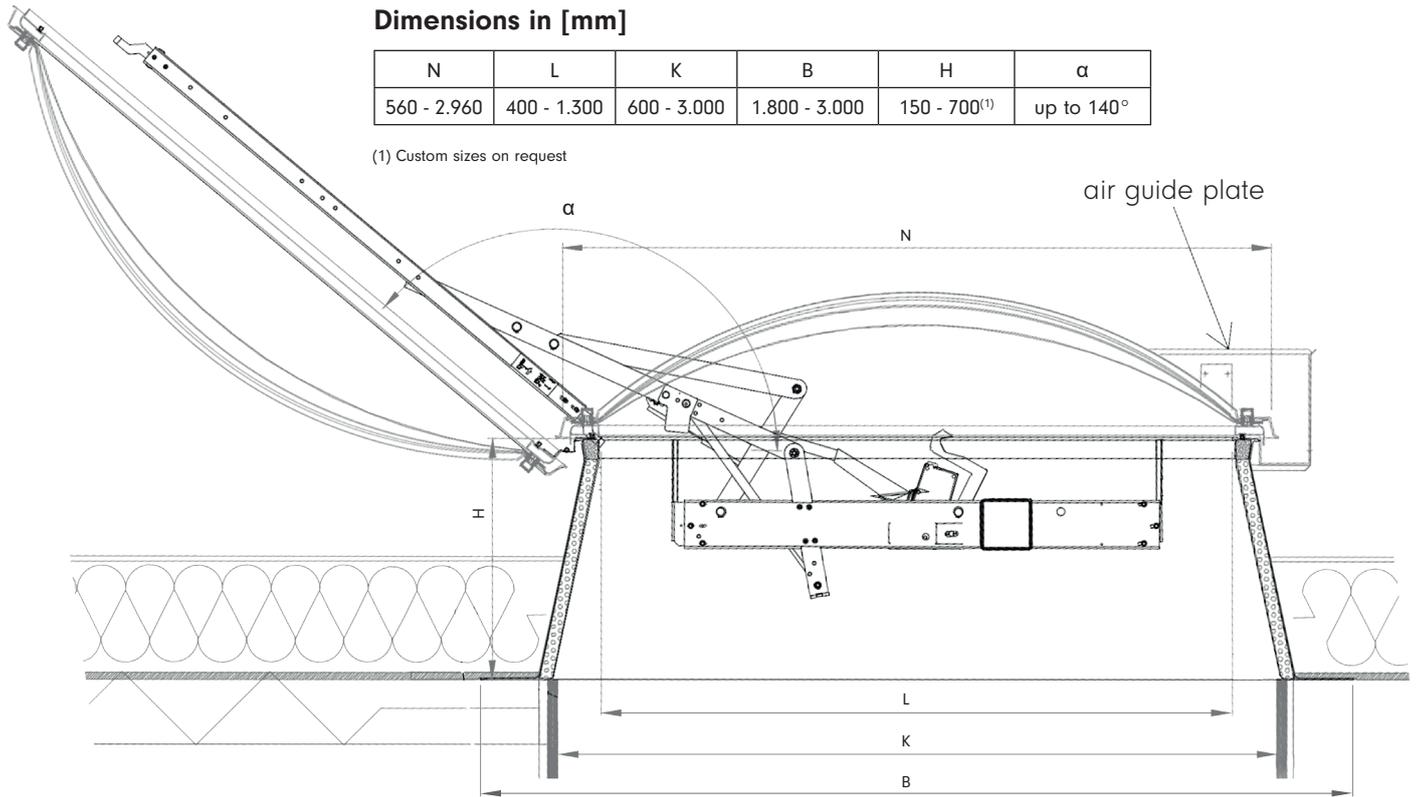
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Dimensions in [mm]

N	L	K	B	H	α
560 - 2.960	400 - 1.300	600 - 3.000	1.800 - 3.000	150 - 700 ⁽¹⁾	up to 140°

(1) Custom sizes on request



Skylight dome options:

- Acrylic skylight domes (AC) in 1-, 2-, 3- or 4-layer design.
- Polycarbonate skylight domes (PC) UV-resistant and weather-resistant very high impact and shock resistance
- Heatstop skylight domes (IRR) 68% of infrared radiation is reflected

Noise insulation when the dome is closed	dB
1-skin	18
2-skin	20
3-skin	22

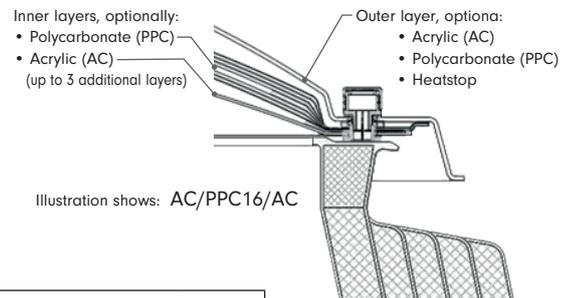


Illustration shows: AC/PPC16/AC

Thermal transmittance U-value	
Dome design	W/m ² K
1-skin (AC)	5,30
2-skin (AC)	2,70
3-skin (AC)	1,90
4-skin (AC)	1,50
3-skin AC/PPC10	1,40
3-skin AC/PPC16	1,20
4-skin AC/PPC10	1,10
4-skin AC/PPC16	1,00

Thermal transmittance U-value	
Polyester roof curb	W/m ² K
25 mm	0,83
40 mm	0,57
50 mm	0,46
60 mm	0,39
80 mm	0,31
100 mm	0,27
120 mm	0,24

RWA:

Snow load (SL): 500 N/m², Wind load (WL): 1,500 N/m²

- Electric motor: 24 V - 4.0 A load cut-off in both end positions
- Pneumatic P2F mechanism with CO₂ cylinder

Ventilation / roof access:

- Ventilation with electric drive (230 V), opening height 30 cm
- Ventilation with P2 - dual-tube air system
- Ventilation & roof access, manual operation up to max. 90°

Fall protection, two-part design, pressed grating in angle frame

EN 1873:2014 uand GS-BAU-18:2015

TYP: PSG13 fall protection SB 600

Licht Transmission	1-skin	2-skin	3-skin	4-skin
Transparent	92 %	85 %	78 %	72 %
Opal +Transparent	83 %	78 %	70 %	59 %
Opal	83 %	70 %	60 %	51 %