Light + Air
International

Flat glass skylights with genuine glass
Data sheet

Energieeffizienz

For higher demands in industrial and administration buildings as well as public buildings and private residential properties

Daylighting Solutions
Natural Ventilation Solutions
Smoke Management Solutions
Service & Maintenance
Building Automation

Kingspan Light+Air

Application

The innovative daylight system with genuine glass can be implemented either in a rigid or ventable design, with a linear or chain drive. It is perfectly suited for both daily ventilation and smoke extraction, for example in stairwells. The window also has an option for radio controlled opening/closing. There is also a wide variety of solutions available both for new builds and for optimising energy efficiency in renovation projects as it can be combined with the extensive Kingspan range of system components, including hatches or glare protection.

Application areas

- office and administration buildings, schools, nurseries, atriums, residential buildings with flat roofs with a roof pitch from 0° to max. 20°, recommended from a roof pitch of 6°
- new builds, energy-optimising renovations and repairs

Material

- PVC and aluminium profile, heat insulation glazing as overhead glazing, EPDM seals

Features and benefits

- quick and easy energy-saving renovations including products from other manufacturers using Kingspan systems and optional PVC renovation skylight base
- simple replacement of existing Kingspan skylight domes
- 6° pitch GFK adapter frame combined with skylight bases, can also be used with products from other manufacturers
- fully framed, highly transparent and flush-mounted genuine glass
- no thermal bridges in the whole construction with thermally separated profile system combined with high-quality thermal insulation glazing with a U_τ value up to 0.6 W/(m²K)* and triple sealing
- smooth isothermal diagram
- air permeability according to EN 12207: Class 4
- thermally separated steel skylight base available in 5 variants (see table, page 5)
- optimised daylight transmission and minimal rain noise compared to acrylic glazing
- available in rigid or ventilated designs with chain or 24 V or 230 V linear drive for daily ventilation as well as smoke extraction, optional radio controlled operation
- fall-through protection to GS-BAU-18 (up to max. 300 mm opening, EN 18008-6 available on request)
- can be combined with Kingspan roof access hatch types G, M or glare protection

* Manufacturer's specification, glazing

Flat glass skylight with 50 cm angled skylight base and linear drive

Flat glass skylight with 50 cm vertical skylight base and roof access hatch with gas pressure spring (type G)

Flat glass skylight with vertical 6° thermally separated 50 cm steel skylight base and roof access hatch with linear drive

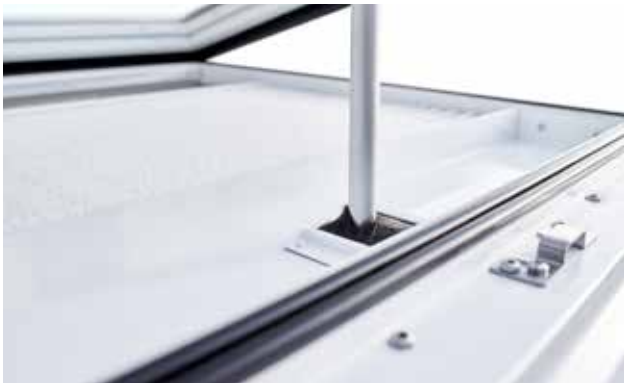
Application

Flat glass skylight with roof access hatch type G open
– view from below

Flat glass skylight with chain drive open
– view from below

Flat glass skylight with roof access hatch type G
– detail view from below

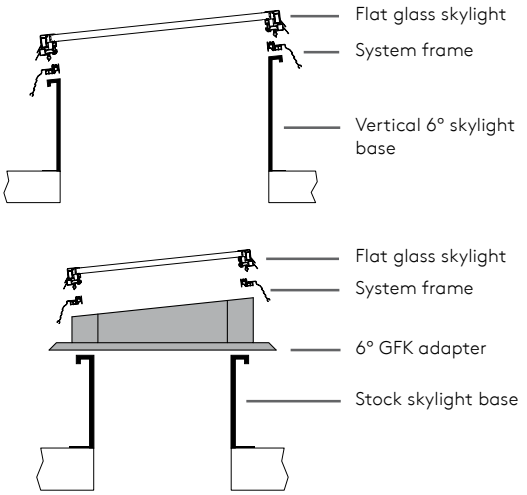
Flat glass skylight with linear drive and glare protection
– view from below



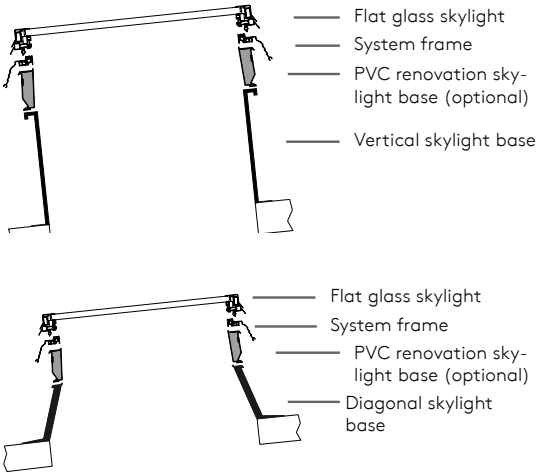
Flat glass skylight with linear drive and glare protection open
– detail

Flat glass skylight with linear drive and glare protection
– view from below

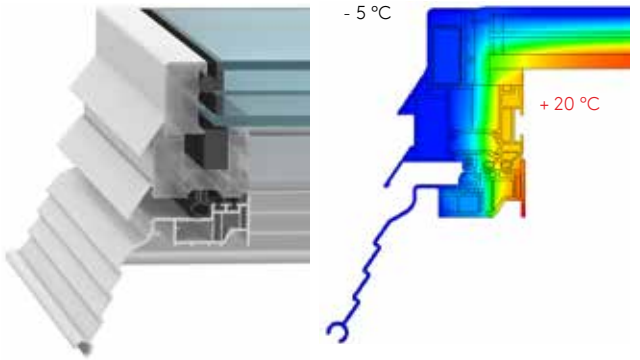
Application



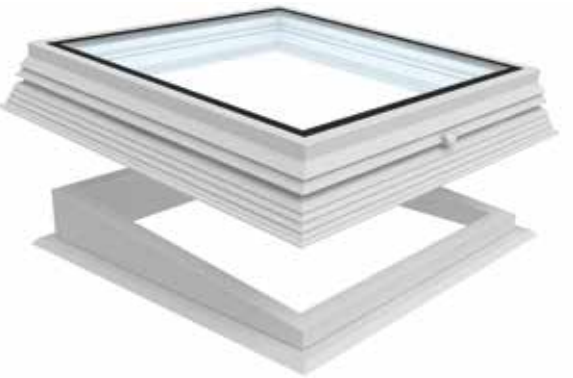
Installation of flat glass skylight in flat roof < 6°



Installation of flat glass skylight in flat roof ≥ 6°-20°



Left: Cross-section of flat glass skylight with triple heat insulation glazing
Right: Isothermal diagram Cross-section of flat glass skylight with triple heat insulation glazing



Flat glass skylight with 6° GFK adapter frame

Flat glass skylight with thermally separated 50 cm flex-steel skylight base and open roof access hatch type M - view from below

Flat glass skylight with roof access hatch type G – detail

Technical specifications

Opener position	Size L x W (cm)	Cover opening dimension diagonal skylight base L X W (cm)	Cover opening dimension vertical skylight base L X W (cm)	Cover opening dimension 6° vertical skylight base L X W (cm)	Cover opening dimension vertical flex skylight base * L X W (cm)	Cover opening dimension 6° vertical flex skylight base * L X W (cm)	Opening dimension skylight base above 6° GFK adapter frame L x W (cm)	Incident light area [m²]	Linear drive 300 and 500 mm	Chain drive 300 and 500 mm		Roof access hatch, type G (gas pressure spring)	Roof access hatch, type M (linear drive)	Glare protection[1]
										24 V	230V			
	60 x 60	60 x 60	40 x 40	40 x 40	Non-standard sizes on request		40 x 40	0,16	•	–	–	–	–	•
	60 x 90	60 x 90	40 x 70	40 x 70			40 x 70	0,28	•	–	–	•	–	•
	80 x 80	80 x 80	60 x 60	60 x 60			60 x 60	0,36	•	–	–	•	–	•
	90 x 90	90 x 90	70 x 70	70 x 70			70 x 70	0,49	•	–	–	• [2]	–	•
	90 x 120	90 x 120	70 x 100	70 x 100			70 x 100	0,70	•	•	•	• [2]	• [2]	•
	100 x 100	100 x 100	80 x 80	80 x 80			80 x 80	0,64	•	•[3]	•[3]	• [2]	•	•
	100 x 150	100 x 150	80 x 130	80 x 130			80 x 130	1,04	•	•	•	–	–	•
	120 x 120	120 x 120	100 x 100	100 x 100			100 x 100	1,00	•	•	•	•	•	•
	150 x 150	150 x 150	130 x 130	130 x 130			130 x 130	1,69	•	•	•	–	–	•

Standard glazing double transparent glazing with fire behaviour class A (DIN 4102-1)
Other glazing options (triple, opal and other sun protection glazing) on request

[1] Pole available in 1,500 or 2,500 mm
[2] Does not correspond to DIN 18160-5
[3] For 300 mm chain drive only

* 44 -150 cm, the length/width ratio of the intermediate sizes corresponds to the length/width ratio of standard sizes

Combinations, new builds and renovations

	Basic combination				Optional substructure		
	Flat glass skylight	System frame	Mounting accessory kit 1 [3]	Motor mounting accessory kit 2 [4] Motorkonsole	6° GFK adapter frame	PVC 15 cm renovation skylight base [5]	Thermally separated 50 cm steel skylight base (5 options) [6]
Flat roof ≤ 6° new build	•	•	•	•	–	–	•
Flat roof ≤ 6° renovation [5]	•	•	•	•	•	•	•
Flat roof ≥ 6° new build	•	•	•	•	–	–	•
Flat roof ≥ 6° renovation [5]	•	•	•	•	–	•	•

The combination of flat glass skylight and system frame with a Ur value ≤ 1.3 W/(m²K) corresponds to the ENEV (German Energy-Saving Ordinance) for residential and commercial properties
[3] For mounting system frames - the linear drive can be mounted using the enclosed bracket irrespective of the substructure provided on site
[4] Can be used with components from other manufacturers
[5] A PVC or steel skylight base can be used for lower requirements

Version	Double heat insulation glazing transparent	Triple heat insulation glazing transparent	Double heat insulation glazing opal	Triple heat insulation glazing opal	Double sun protection glazing neutral 70/37	Triple sun protection glazing neutral 70/37
U_t value	1.1 W/(m²K) *	0.6 W/(m²K) *	1.1 W/(m²K) *	0.6 W/(m²K) *	1.0 W/(m²K) *	0.6 W/(m²K) *
Light transmission	80 % *	72 % *	54 % *	48 % *	69 % *	62 % *
g value	59 % *	51 % *	54 % *	47 % *	39 % *	34 % *
Soundproofing quality R_{wp}	39 dB *	44 dB *	39 dB *	44 dB *	39 dB *	44 dB *

* Manufacturer's specification, glazing

INTERNATIONAL

Kingspan Light + Air
E: kla.international@kingspan.com
www.kingspanlightandairinternational.com

As at 07/2019; item no. 11000690794

Kingspan®
Light + Air