



basic and plus saddle rooflight systems

Data sheet



That special look for industrial flat roofs



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

Application

The Kingspan basic and plus saddle and shed rooflight systems provide a special look and are available in a wide range of glazing options. They are suitable for natural aeration and ventilation as well as smoke and heat extraction. The thermally separated plus saddle rooflight system is particularly suitable for more demanding installations with respect to heat insulation, sealing, and protection against condensation. Both systems are available with a 30° or 45° pitch. Shed rooflight systems (30 / 60°) are available for projects.

Application areas

- industrial flat roofs (e.g. warehouses and industrial halls) with a maximum roof pitch up to 20° (maximum 5° parallel to the ridge)
- greater pitches available on request
- new builds and (energy efficiency) renovation projects
- on Kingspan base systems or frame upstands provided by the customer

Material

- aluminium and PVC profile systems
- glazing made from multi-wall polycarbonate sheets, PETG, GFK, glass mat

Features and benefits

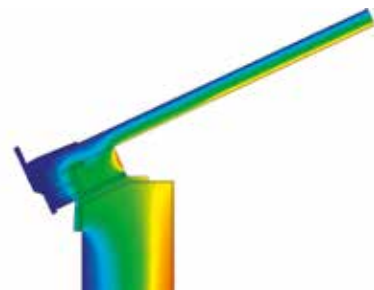
- available in widths of 1 - 5 metres in any length
- different glazing options available for a wide range of requirements such as protection against heat, sound, the sun or emissions
- special options for a unique look
- available in ventable and SHE design with flaps and appropriate drives
- available with glazing options irrespective of span width
- glazing option as hard roofing with glass mat or HDS (hail, fall-through and sun protection)
- other glazing options available for special requirements (e.g. GFK)
- compatible with Kingspan fall arrest and fall-through protection systems
- can be classified as a melt-out area in fire protection plans in accordance with EN 18230-1
- variants to accommodate high snow loads also available
- intelligent connection technology and frame safety connection made from EPDM
- approved in accordance with European Technical Approval ETA 17/0484 and general type approval Z-10.19-831



Cross section of basic saddle rooflight system



Cross section of plus saddle rooflight system

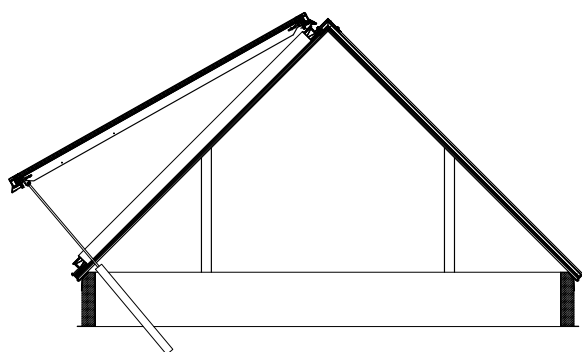


Isothermal diagram for cross section of plus saddle rooflight system with additional insulation in the support area

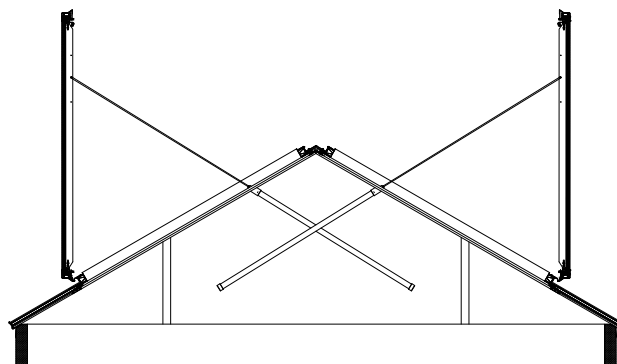
plus saddle rooflight system

- excellent U values due to thermally separated profile systems
- very good insulation capacity in the support area due to twin-wall PVC profiles
- reduced condensation where demands are greater due to optional insulation in the support area
- can be extended due to modular design and wide range of accessories
- thermally separated flap systems
- reduced heating costs due to highly efficient overall design

Technical specifications



Single full flap with ventilation function 45°

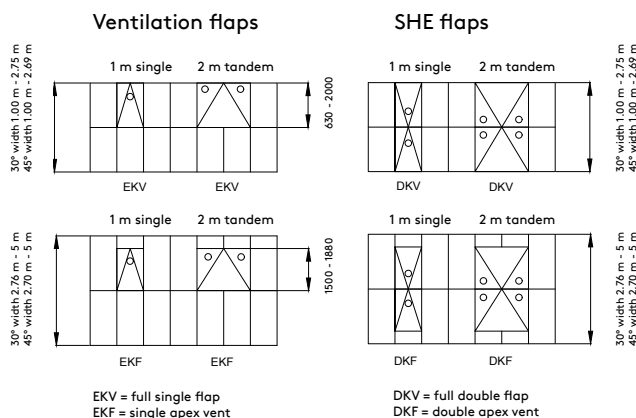


Double apex vent with pneumatic NSHE (OPEN) 30°

Installation position

- full flap (single and double flap):
span width 1.00 m to 2.69 m (45°)
span width 1.00 m to 2.75 m (30°)
- apex vent (single and double flap):
span width 2.70 m to 5 m (45°)
span width 2.76 m to 5 m (30°)
- available in flap widths of 1 m and 2 m
- SHE flap systems are tested and certified in accordance with EN 12101-2

Flap variants



Glazing variants	Span width [m]	U _t value [W/m²K]	Soundproofing quality [dB]	Light transmission ³⁾ [%]	g value ³⁾ opal [%]	Fire behaviour [DIN EN 13501]
PC 10/4	1.00 - 3.00	2.5 ¹⁾	19	61	61	B-s1, d0
PC 16/7	1.00 - 5.00	1.8 ¹⁾	21	45	46	B-s1, d0
PC 20/7	1.00 - 5.00	1.6	23	44	45	B-s1, d0
PC 10/4 + PC 10/4	1.00 - 3.00	1.7	24	37	43	E
PC 10/4 + glass mat + PC 10/4 ²⁾	1.00 - 3.00	1.7	24	27	33	E
PC 16/7 + 10/4 ²⁾	1.00 - 5.00	1.3	24	28	37	E
PC 16/7 + glass mat + PC 10/4 ²⁾	1.00 - 5.00	1.3	24	20	29	E
PC 16/7 + 6 mm PETG	1.00 - 5.00	1.8	30	38	43	E
PC 16/7 + PC 16/7	1.00 - 5.00	1.1	24	21	28	E
PC 10/2 with Aerogel filling	1.00 - 3.00	2	21	74	71	E
PC 16/3 with Aerogel filling	1.00 - 5.00	1.3	21	65	64	E
PC 20/3 with Aerogel filling	1.00 - 5.00	1.1	21	63	63	E
PC 16/7 IR control white	1.00 - 5.00	1.8 ¹⁾	21	22	31	B-s1, d0

1) Vertical installation
 2) Meets the requirements for B roof (t1) "hard roofing"
 3) Opal glazing only, other materials available on request

Specific U_{rc} and U_{rc inst} values can be calculated on request.

INTERNATIONAL

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Illustrations are not binding.

