



Kingspan arcade rooflight

Data sheet

Modular daylight system for industrial flat roofs



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

Application

With its extendable functionality, the arcade rooflight is a system for complying with standard requirements for industrial flat roofs. The arcade rooflight is an ideal solution for pure daylighting, ventilation, or for complex smoke and heat extraction systems.

Application areas

- industrial flat roofs (e.g. warehouses) with a maximum roof pitch up to 20° (maximum 5° parallel to the ridge)
- greater pitches available on request
- new builds and renovations

Material

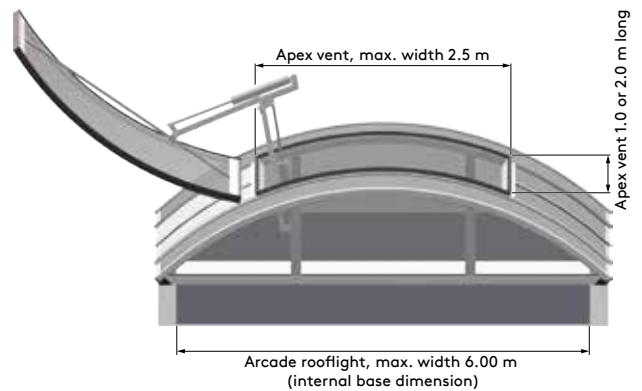
- aluminium profile system
- boards made from multi-wall polycarbonate sheets, PETG, GFK, glass mat

Features and benefits

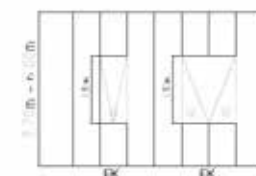
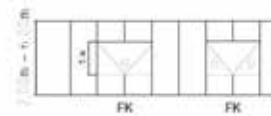
- available in widths of 1-6 metres in any length
- can be extended due to modular design and wide range of accessories
- different glazing options available for a wide range of requirements
- hard roofing glazing variant also available
- can be classified as a melt-out area in fire protection plans in accordance with EN 18230-1 (pure heat extraction)
- can be individually adapted to static requirements
- variants to accommodate high snow loads also available
- approved in accordance with European Technical Approval ETA - 17/0482 and type approval
- compatible with Kingspan fall arrest and fall-through safety systems (GS-B10 18 fall height 1.20 m / 2.40 m; depending on the system)
- intelligent connection technology and frame safety connection made from EPDM
- compliant with EN 18234-3
- hail standard V_kF Bern "HW 5"
- water tight to EN 14963



Cross-section of Kingspan arcade rooflight

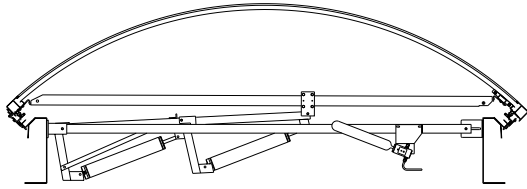


VK = full flap
FK = apex vent
SHE from span width
1.35 m (national)



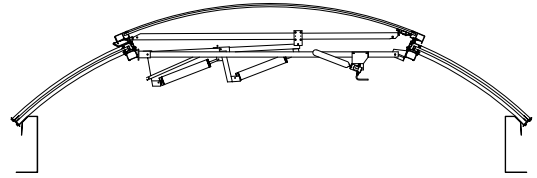
Flap variants for arcade rooflight

Technical specifications



Full flap with NSHE⁴⁾

- installation position: over the entire span of the arcade rooflight
- available in 1.00 m and 2.00 m variants
- for spans from 1.00 m to 2.52 m
- SHE flap systems tested and certified in accordance with EN 12101-2



Apex vent with NSHE

- installation position: at the apex with two transom profiles for mounting
- flap dimensions (W x L):
1.50 m x 2.00 m
2.50 m x 1.00 m
2.50 m x 2.00 m
- for spans from 2.00 m to 6.00 m
(1.50 m x 2.00 m)
- for spans from 2.70 m to 6.00 m
(2.50 m x 1.00 m)
(2.50 m x 2.00 m)
- SHE flap systems tested and certified in accordance with EN 12101-2

Glazing variants	Span width [m]	U _t value [W/m ² K]	Sound-proofing quality [dB]	Light transmission ³⁾ [%]	g value ³⁾ opal [%]	Fire behaviour [DIN EN 13501]
PC 10/4	1.00 - 6.00	2.5 ¹⁾	19	61	61	B-s1, d0
PC 16/7	2.00 - 6.00	1.8 ¹⁾	21	45	46	B-s1, d0
PC 20/7	2.50 - 6.00	1.6	23	44	45	B-s1, d0
PC 10/4 + 10/4	1.00 - 6.00	1.7	24	37	43	E
PC 10/4 + glass mat + PC 10/4 ²⁾	1.00 - 6.00	1.7	24	27	33	E
PC 16/7 + 10/4 ²⁾	2.00 - 6.00	1.3	24	28	37	E
PC 16/7 + glass mat + PC 10/4 ²⁾	2.00 - 6.00	1.3	24	20	29	E
PC 16/7 + 6 mm PETG	2.00 - 6.00	1.8	30	38	43	E
PC 10/2 with Aerogel filling	1.00 - 3.30	2	21	74	71	E
PC 16/3 with Aerogel filling	2.00 - 3.50	1.3	21	65	64	E
PC 20/3 with Aerogel filling	2.50 - 3.50	1.1	21	63	63	E
PC 16/7 IR control white	2.00 - 6.00	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

4) NSHE (T-05) from span of 1.35 m (national)

Specific U values can be calculated on request.

Depending on the glazing material and width, the #arcade rooflight is supplied with a dome pitch of 1/5 or 1/9.

INTERNATIONAL

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Subject to technical alterations.

Illustrations are not binding.

