



Kingspan Classic Arcade Rooflight Data Sheet

Type 940-10



Application

The Classic Arcade Rooflight provides a functional solution for a variety of requirements, including natural daylighting, ventilation and complex smoke and heat extraction.

Description

The Classic Arcade Rooflights are arched (vaulted), with a pitch of 1/5 - 1/9 of the span width. The Arcade Rooflight is available in any width - in 10mm increments - between 1m and 6m, as required, and can be infinitely long.

The bearing structure consists of natural blank, extruded aluminium sections placed 1.06m apart or 0.53m apart if the span width exceeds 5m. The base and span sections are also made of aluminium, small outer parts, e.g. screws, hinges etc. are made of stainless steel (V2A).

The design of the polycarbonate double glazing complies with European fire protection regulations. The Classic Arcade Rooflight flap comprises a polycarbonate panel of the same thickness as the rest of the arcade rooflight in an aluminium frame.

The flap size is based on a grid of 1.06m and is 1m or 2m long. Applicable standards limit the width of the flap to 2.5m max. A distinction is made between full, side and ridge flaps, depending on the span width of the arcade rooflight.

This flap construction can be used purely for ventilation or SHE purposes or as a combination of both.

The arcade rooflight flaps can be opened for daily aeration and ventilation by using optional ventilation motors (standard lift of 300mm). At the same time, the arcade rooflight flaps can be used for smoke extraction by installing a smoke and heat extraction system (SHE). The smoke and heat extraction system (SHE) opens the arcade rooflight flap to 145 - 160° when activated.



Features & Benefits

- Available in an array of lengths and in span widths of 1-6 metres
- Different glazing options available for a range of requirements
- Extensive accessories allow versatile functionality
- Suitable for a range of commercial and industrial roofing applications (commercial, retail, and leisure) up to a maximum pitch of 20° (parallel to ridge, maximum 5°)
- Suitable for use on all roof systems for both new build and refurbishment projects
- Glazing material manufactured from multi-chambered polycarbonate panels. Offering a variety of thermal performances to meet project specific requirements
- Can be designed as a melt out surface in the event of fire
- Can be designed as a smoke & heat extraction source
- H&S classification: Non-fragility to ACR (M)001:2014 Class B, when installed as per Kingspan details

Dimensions, Weight and Performance

Glazing Options	Span Width in m	U _g Value (W/m ² ·K)	Soundproofing Quality (dB)	Light Transmission ³⁾ (%)	g Value ³⁾ Opal (%)	Fire Behaviour (BS EN 13501)
PC 10/4	1.00–6.00	2.5 ¹⁾	19	56	59	B-s1-d0
PC 16/7	2.00–6.00	1.8 ¹⁾	22	43	47	B-s1-d0
PC 20/7	2.50–6.00	1.7	19	54	47	B-s1-d0
PC 10/4 + 10/4	1.00–6.00	1.7	24	36	43	E
PC 10/4 + glass mat + PC 10/4 ²⁾	1.00–6.00	1.7	22	27	36	E
PC 16/7 + 10/4	2.00–6.00	1.3	24	19	22	E
PC 16/7 + glass mat + PC 10/4 ²⁾	2.00–6.00	1.3	24	27	33	E
PC 16/7 + 6mm PETG	2.00–6.00	1.9	30	38	43	E
PC 10/2 Aerotech	1.00–6.00	2	–	74	71	E
PC 16/3 Aerotech	2.00–6.00	1.3	–	65	64	E
PC 20/3 Aerotech	2.50–6.00	1.1	–	63	63	E

¹⁾ Vertical installation

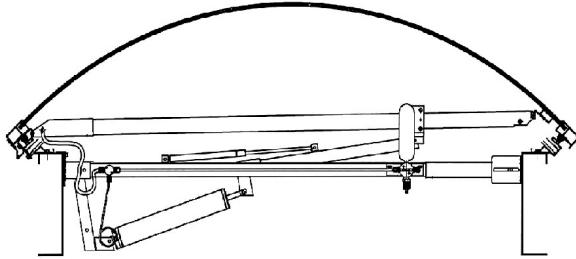
²⁾ Meets the requirements of "hard roofing" B roof (t1)

³⁾ Opal glazing only, others available on request

U_{ic} and U_{ic inst} can be calculated individually on request

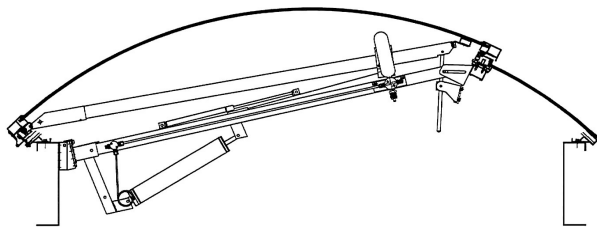
The Classic Arcade Rooflight is supplied with a pitch of 1/5 or 1/9 depending on the glazing material and width.

Technical Specifications



Full flap with SHE (Smoke & Heat Extraction)

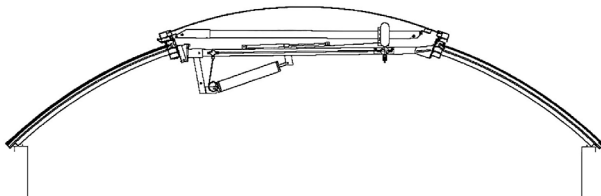
- Installation position: Over the entire span width of the Arcade Rooflight
- Dimensions of 1m and 2m available
- For span widths from 1m to 2.53m



Side flap with SHE

- Installation position: On one edge of the Arcade Rooflight with a transom profile for fastening
- Flap dimensions (W x L):

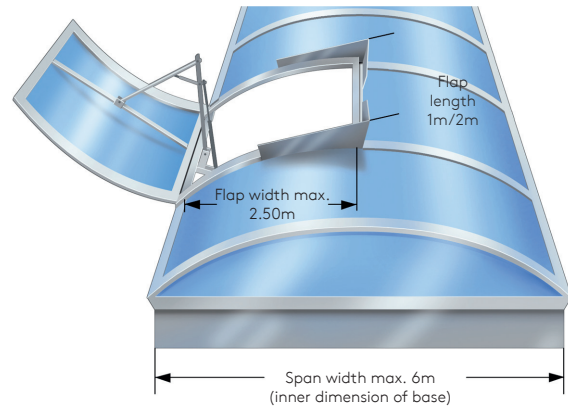
1.50 x 2m	2.50 x 1m
1.80 x 2m	2.50 x 2m
- The span of flap widths are up to 4.60m



Ridge flap with SHE

- Installation position: In the ridge with two transom profiles for fastening
- Flap dimensions (W x L):

1.50 x 2m	2.50 x 1m
1.80 x 2m	2.50 x 2m
- For span widths from 2.80m to 4.60m



The Classic Arcade Rooflight ventilation flap



The Classic Arcade Rooflight SHE flap

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