



Kingspan Arcade Rooflight

NBS Specification



NBS clause:

L10 Windows/ Rooflights/ Screens/ Louvres - 460 ROOFLIGHTS

Kingspan Arcade Rooflight

Detailed description

Arched rooflights that can be used for natural daylighting, ventilation and smoke and heat extraction.

The rooflight flap comprises multi-chambered polycarbonate panels of the same thickness as the rest of the arcade rooflight, in an aluminium frame.

The flaps can be opened for daily aeration and ventilation as well as for smoke extraction.

Features and benefits:

- A range of options and accessories allow versatile functionality.
- Offers thermal performance to meet project specific requirements.
- Can be designed as a melt out surface in the event of fire, or a smoke and heat extraction source.
- Non-fragility to ACR (M)001:2014, Class B.

Applications:

- Suitable for commercial and industrial roofing applications (including retail and leisure) up to a maximum pitch of 20° (if parallel to a ridge, maximum pitch of 5°).
- Suitable for use on all roof systems for both new builds and refurbishment projects.

Product guidance - As Standard

Material:

- Bearing structure: Extruded aluminium.
- Base and span: Aluminium.
- Panel: Multi-chambered polycarbonate.
- Hinges and screws: Stainless steel / galvanized steel

Fire performance (to BS EN 13501):

Class B-s1-d0 for PC 10/4, PC 16/7 and PC 20/7, all aside are class E

Options

Width:

The bearing structure consists of natural blank, extruded aluminium sections placed 1060 mm apart, 703 mm apart or 530 mm apart depending on required wind load and/or snow load.

Flap

Flap type (full, side and ridge) will vary dependent on size chosen and span width. Consult manufacturer's literature for information.

Product specification

Manufacturer

- Name: Kingspan Light + Air
- Web: www.kingspanlightandair.co.uk
- Email: info@kingspanlightandair.com
- Tel: +44 (0)2920 776160
- Address: Mellyn Mair Business Centre, Lamby Industrial Park,
Wentloog Avenue, Cardiff, Wales CF3 2EX

Product reference Kingspan Arcade Rooflight

Width [_____]

Ridge flap (w x l):

- Not required
- 1500 x 2000 mm
- 2500 x 1000 mm
- 2500 x 2000 mm

Full flap (w x l):

- 1000-2520 x 1000 mm
- 1000-2520 x 2000 mm

Glazing

- PC 10/ 4 - 1000–6000 mm span width. 2.5 W/m² K. 19 dB. Light transmission 61%. 61 g-value.
- PC 16/ 7 - 2000–6000 mm span width. 1.8 W/m² K. 21 dB. Light transmission 45%. 46 g-value.
- PC 20/ 7 - 2500–6000 mm span width. 1.6 W/m² K. 23 dB. Light transmission 44%. 45 g-value.
- PC 10/ 4 + 10/ 4 - 1000–6000 mm span width. 1.7 W/m² K. 24 dB. Light transmission 37%. 43 g-value.
- PC 10/ 4 + glass mat + PC 10/ 4 - 1000–6000 mm span width. 1.7 W/m² K. 24 dB. Light transmission 27%. 33 g-value.
- PC 16/ 7 + 10/ 4 - 2000–6000 mm span width. 1.3 W/m² K. 24 dB. Light transmission 28%. 37 g-value.
- PC 16/ 7 + glass mat + PC 10/ 4 - 2000–6000 mm span width. 1.3 W/m² K. 24 dB. Light transmission 20%. 29 g-value.
- PC 16/ 7 + 6 mm PETG - 2000–6000 mm span width. 1.8 W/m² K. 30 dB. Light transmission 38%. 43 g-value.
- PC 10/ 2 Aerotech - 1000–3300 mm span width. 2.0 W/m² K. 21dB. Light transmission 74%. 71 g-value.
- PC 16/ 3 Aerotech - 2000–3500 mm span width. 1.3 W/m² K. 21 dB. Light transmission 65%. 64 g-value.

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PC 20/ 3 Aerotech - 2500–3500 mm span
width. 1.1 W/m² K. 21 dB. Light transmission 63%.
63 g-value

Accessories

[Not required]

[Smoke and heat extraction system (SHE)] -

Opens the arcade rooflight flap to 150–170° when activated.

[Ventilation motor] - Standard lift of 300 mm.

Enables opening for daily aeration.

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