



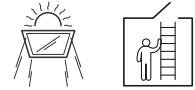
Kingspan Ecolux Premium Alu Roof Access Data Sheet

Insulated, thermally broken roof access skylight



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





Kingspan Ecolux Premium Alu Roof Access

Description

Thermally-broken skylight with roof access for waterproofed roofs, offering high-performance thermal insulation. Urc starting at 1.3 W/m².K*.

Premium range

CE

Double-glazed
roof access skylight



Advantages

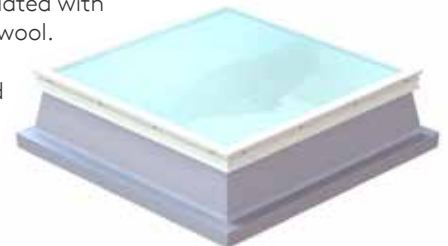
- Urc starting at 1.3 W/m².K*.
- Fully thermally broken skylight with aluminium profile frames and double polyamide thermal breaks, insulating air slats to minimise heat loss by transmission: 70% less energy loss compared to a conventional skylight.
- Double glazing ensures excellent noise attenuation.
- Light transmission optimised through glass cover.
- Unique locking system patented by Kingspan Light + Air.
- Airtight unit to ensure better control of heat loss via ventilation.
- Wide range of double-glazed, MWPC and aluminium covers (see page 4).
- The frames, cover and/or kerb can be painted in the RAL colour of your choice.

Standard description

Roof access is provided by an Ecolux Premium Alu Roof Access hatch by Kingspan Light + Air. The straight base is made of galvanised steel with 50 mm insulation, height 400 mm. The skylight can be fitted with a retractable hand rail, ladder, attachment bar and opening burglar-proof grid which can be padlocked. Thermally broken aluminium opening frame and fixed frame. Urc starting at 1.3 W/m².K*.

Upstand for renovation

The Ecolux Premium Alu Roof Access upstand is specifically designed for renovation projects. The upstand is 200 mm high (standard) and features a 100 mm mounting flange. It is fully lined and insulated with a 50 mm layer of rock wool. The interior and/or exterior can be painted in any RAL colour.



Upstand for renovation

To meet the RT 2012 requirements and the increased need for energy savings, Kingspan Light + Air offers you an array of solutions with the Premium range. This range of new-generation skylights eliminates thermal bridges and limits heat losses, while providing lighting and ventilation. Certain skylights in the range are eligible for Energy Savings Certificates.

* Urc obtained with the best combination of kerb/upstand/lid/dimensions

Description

Thermally broken lid

- Choice: See details on next page
- Multiwall polycarbonate lid 16 and 32 mm (MWPC)
 - Aluminium cover
 - Glass cover

1200 Joule opening grid

Aluminium fall-protection grid
RAL paint finish on request

2-point locking system

New-generation locking system patented by Kingspan Light + Air for electric and pneumatic control systems. Improved airtightness and mechanical strength.

Double sealing

- 1 EPDM rubber gasket: lid sealing and thermal break.
- 2 EPDM seals: dual air and watertight seal between the opening frame (lid) and fixed frame.
- 4 breaks: double thermal break on opening frame (lid) and fixed frame.
- EPDM strip: thermal separation between fixed frame and kerb.



Thermally broken aluminium opening frame

Bare aluminium finish as standard, RAL powder coating possible on request.

Mechanism

Oleo-pneumatic gas spring for opening and closing.

Thermally broken aluminium fixed frame

Bare aluminium finish as standard RAL, powder coating possible on request.

Straight insulated metal kerb or upstand

The thermally broken kerb is made of galvanised steel. Height: 400 mm. Thermal insulation is provided by a 50 mm thick rock-wool insulation for waterproofed flat roofs. Interior coating finish on request.

Dimensions

Dimension	Free ventilation space	Kerb height	Upstand height
100 x 100 cm	1 m ²	400 mm	200 mm



4	Kingspan Ecolux Premium Alu Roof Access	Insulated, thermally broken roof access skylight
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Types of glazing

- Recommendation for 5° minimum pitch to enhance water drainage.
- Does your roof have less than 5° pitch?
Kingspan Light + Air can manufacture a kerb made-to-measure with a built-in pitch.

1. Multiwall Polycarbonate MWPC thermally broken lid

Advantages

- Best balance of cost vs. insulation
- Glazing possible with AeroTech®.

2. Aluminium lid (Thermally broken and insulated)

Advantages:

- Total opacity with excellent thermal insulation.

Version	Value Ug (W/m².K) Façade	N°
Aluminium cover	1.3	8

3. Glass lid (Thermally Broken)

Advantages:

- Excellent thermal, light transmission and acoustic performance
- Excellent durability.
- All other glazing (with or without CEKAL mark) available on request to meet all your needs.
- Better through vision due to transparency of glass.

Model	16 / 32 mm	Version	N°
MWPC	16 mm	Opal	1
		Transparent	2
		Heat reduction	3
		AeroTech®	4
	32 mm	Opal	5
		Transparent	6
		Heat reduction	7



Version	Glazing name	Ug value (W/m².K) Façade	Ug value (W/m².K) Roof	Light Transmission (%)	Solar Factor (%)	N°
Thermal double glazing with low-emissivity glass	Planitherm Ultra N II 6 mm / Argon 16 mm / Stadip 44.2	1.1	1.8	77	57	9
Double glazing with solar control glass 1	Cool-Lite SKN 154 II 6 mm / Argon 16 mm / Stadip 44.2	1.0	1.7	49	28	10
Double glazing with solar control glass 2	Cool-Lite SKN 165 II 6 mm / Argon 16 mm / Stadip 44.2	1.0	1.7	59	33	11
Double glazing with solar control glass 3	Cool-Lite SKN 176 II 6 mm / Argon 16 mm / Stadip 44.2	1.0	1.7	69	33	12
Double glazing with solar control glass 4	Cool-Lite Xtrem 60/28 II 6 mm / Argon 16 mm / Stadip 44.2	1.0	1.7	59	29	13
Acoustic double glazing with solar control glass 1	Cool-Lite SKN 154 II 6 mm / Argon 16 mm / Stadip Silence 44.2	1.0	1.7	49	28	14
Acoustic double glazing with solar control glass 2	Cool-Lite SKN 165 II 6 mm / Argon 16 mm / Stadip Silence 44.2	1.0	1.7	59	33	15

* Minimum pitch required to ensure self-cleaning effect: 15°
Summary information of most representative materials and thicknesses of glazing - contact us for all other requests.



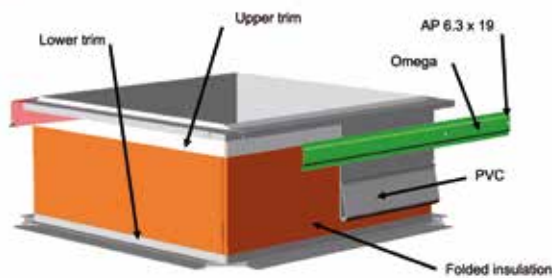
Options

1. Kerb equipped for PVC waterproofing

Ecolux Premium Alu Roof Access is also suitable for PVC waterproofing membranes: without modifying the kerb, we offer a non-coated insulation and a mounting kit.

- PVC sealing membrane attachment system

Illustration:



2. 1200 Joules solution

Fall-protection grid. Paint finish on request.



3. Kingspan Light + Air AeroTech® insulation

The Kingspan Light + Air AeroTech® solution is a technology based on insulating aerogel injected into the polycarbonate walls, which improves the diffusion of natural light while reinforcing thermal and acoustic insulation.



4. Hand rail

The hand rail facilitates roof access. This additional support makes it easier to access or descend from the roof via the skylight.

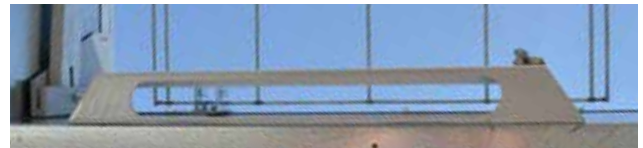


5. Lacquering

The frame, cover, herb or upstand of your skylights can be lacquered with your choice of RAL colour. Ideal for blending your skylight into your building.

6. Ladder attachment bar

The ladder attachment bar is fixed to the kerb to keep it steady and ensure safe access to the roof.



7. Padlock

The padlock secures the skylight from inside and delays any unwanted intrusion.



Certifications



INTERNATIONAL

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For the product offering in other markets please contact your local sales representative or visit www.kingspanlightandairinternational.com

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