



Name: Skydoor
Type: Electrically operated hinged skylight

Description:

The Skydoor is a thermally efficient opening product designed to allow access from a stairwell to a roof terrace or similar, ideal for placement at the top of a staircase. The product can be opened to nearly 90° for access, or various angles for ventilation as required. Glazing Vision highly recommends that for safety reasons a balustrade is installed (by others) around the Skydoor if it is to be used for access – the lid can be used as a balustrade on one side.

A variety of optional extras including a rain sensor, thermostat, remote control and home automation system connectivity are available. Proximity detection is included on every product as standard.

This product is robust and long-lasting, boasting excellent thermal performance, air tightness and reliable operation.

Intended Use: Hinged skylight to be used for regular access, to provide natural daylight, day-to-day ventilation and weather resistance.

External Weathered Curb Dimensions:	Min Span:	40"	Max Span:	82"
	Min Width:	52"	Max Width:	149"
	Min Curb Pitch:	5/8" : 12" (3°)	Max Curb Pitch:	2" : 12" (10°)
	<i>Glazing Vision recommends a pitch of at least 1-1/8" : 12" (5°).</i>			

Note that the minimum and maximum span, width and pitch are dependent on various factors, your technical sales advisor will be happy to advise on these. Further information on curb requirements and product dimensions can be found on our website or by contacting your technical sales advisor.

Glazing: A wide variety of glazing specifications are available for this product. Your technical sales advisor will be happy to answer any questions regarding specific glass specifications or glazing performance requirements. Otherwise, quotes include suitable and cost effective glazing proposals.

Standard Colors: Qualicoat approved RAL 7015 slate grey outer, RAL 9010 pure white inner.

Control, Power and Drive: The product is operated using a supplied wall mounted switch connected to a control box mounted inside the product framework via a flying lead.

Also supplied is an externally housed Power Supply Unit requiring connection to the main power supply. It is recommended that this is housed somewhere accessible.

The unit is driven by two folding arm actuators, paired using encoder feedback and, in the event of power failure, can be manually overridden.

Performance and Weathertightness:

The product comprises thermally broken aluminum sections consisting of polyamide thermal breaks and closed cell PIR insulation thermally isolating the inner and outer frame sections. Structural integrity is assured through the use of finite element analysis (FEA) and testing.

U-factors are calculated for each product and will be supplied in our quote. Further information and specific performance details can be obtained from your technical sales advisor.

The product is sealed to the curb using silicone and fixed in place with structural fixings which are concealed by a clip-on cover leaving a sleek external finish. Sealing between the base frame and the lid frame is achieved using silicone bubble seals.

The product has been thoroughly tested and has achieved the following classification results:

Size: 1314 mm (51-3/4”) span x 3448 mm (135-3/4”) width Pitch: 3° (5/8” : 12”)

Performance Grade 30 (PG 30)

Test	Standard	Declared Value
Air permeability	ASTM E283	±600 Pa (±12.53 psf)
Watertightness	ASTM E331 and E547	600 Pa (12.53 psf)
Wind resistance	ASTM E330	+2400 Pa (+50.13 psf), -1600 Pa (-33.42 psf) Serviceability +3600 Pa (+75.19 psf), -2400 Pa (-50.13 psf) Safety

Security:

This product is designed with security as a priority. The mechanisms cannot be back driven and cannot be tampered with from the outside.

Optional Extras:

The following optional extras are available for this standard product at additional cost:

- Easy Clean Coating:** A coating applied to the external face of the glass that facilitates water run-off. Helps the glass stay cleaner for longer and makes cleaning easier.
- Special Color(s):** This product has separate inner and outer colors as standard. Each can be swapped for a special color.
- Remote Control:** Allows the product to be opened and closed from a short range.
- Rain Sensor:** Automatically closes the product when moisture is detected.
- Rain Sensor Isolator:** An internally mounted wall switch that allows the rain sensor to be turned off so that it does not automatically close the product when moisture is detected.
- Thermostat:** Automatically operates the product to regulate the temperature within the building.
- Keypad or Key Switch:** Offers secure access either via an externally mounted four-digit numerical pass code keypad or a key switch.
- Battery Backup:** Allows full operation of the product for a limited period in the event of a power failure.
- Home Automation:** Allows the product to be operated by contact closure of a third-party home automation system.
- Curb Top Trim:** Cover designed to mask the top of curbs which may be visible through glass when viewed from above. Includes detail to recess standard drywall.

A suite of sales drawings is available.

Custom options may be available upon request but may incur additional design fees – contact your technical sales advisor for more information.

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