



Right Hand Exit

Left Hand Exit

**Name:** Free Standing Skybox

**Type:** Electrically operated sliding skylight

**Description:**

The Free Standing Skybox is a thermally efficient opening product designed to allow access from a stairwell to a roof terrace or similar. The product is available in either left or right hand opening formats - the moving section (door) is made of two glass panes mounted into a frame that slides over the fixed panes giving a large aperture ideal for placement at the top of a staircase of almost any configuration.

A variety of optional extras including a rain sensor, thermostat, remote control and home automation system connectivity are available. Proximity detection (safety sensors that immediately stop the product moving when an infrared light beam is broken) is included on every product as standard. A solenoid security bolt is also fitted as standard ensuring that the product remains secure in all situations.

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

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

<b>External Weathered Curb Dimensions:</b>	Min Span:	52"	Max Span:	137"
	Min Width:	60"	Max Width:	157"
	Min Height:	34"	Max Height:	59"
	Min Area:	21.0 ft <sup>2</sup>	Max Area:	90.4 ft <sup>2</sup>
	Min Curb Pitch:	0" : 12" (0°)	Max Curb Pitch:	0" : 12" (0°)

Note that the minimum and maximum span, width and height 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 the PSU is housed somewhere accessible.

The unit is driven by two leadscrew mechanisms that are synchronized using motor 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 upstand 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 door frame is achieved using a combination of silicone bubble seals and PU seals with PE sliding surfaces.

The product has been thoroughly tested and has achieved the following classification results:  
Size: 3500 mm (137-3/4") span x 2400 mm (94-1/2") width x 1500 mm (59") height Pitch: 0° (0" : 12")

Test	Standard	Declared Value
Air permeability	ASTM E283	±300 Pa (6.27 psf)
Watertightness	ASTM E331	300 Pa (6.27 psf)
	AMMA 501.1	600 Pa (12.53 psf)
Wind resistance	ASTM E330	+2400 Pa (+50.13 psf), -1200 Pa (-25.06 psf) Serviceability +3200 Pa (+66.83 psf), -1250 Pa (-26.11 psf) Safety

## Security:

When closed, the door of the product is locked in place with a solenoid bolt. The framework is designed such that the door cannot be lifted from its tracks.

## Optional Extras:

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

<b>Easy Clean Coating:</b>	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.
<b>Special Color(s):</b>	This product has separate inner and outer colors as standard. Each can be swapped for a special color.
<b>Remote Control:</b>	Allows the product to be opened and closed from a short range.
<b>Rain Sensor:</b>	Automatically closes the product when moisture is detected.
<b>Rain Sensor Isolator:</b>	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.
<b>Thermostat:</b>	Automatically operates the product to regulate the temperature within the building.
<b>Keypad or Key Switch:</b>	Offers secure access either via an externally mounted four-digit numerical pass code keypad or a key switch.
<b>Battery Backup:</b>	Allows full operation of the product for a limited period in the event of a power failure.
<b>Home Automation:</b>	Allows the product to be operated by contact closure of a third-party home automation system.
<b>Curb Top Trim:</b>	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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