



Technical Data Sheet

Free Standing Skybox Rooflight

700-TDS-UK-001 – v1.5 – 12 Dec 2024

Name: Free Standing Skybox

Type: Electrically operated sliding rooflight

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 sliding section (door) is made up 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 Building Management 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 rooflight to be used for regular access, to provide natural daylight, day-to-day ventilation and weather resistance.

External Weathered Upstand Dimensions:	Min Span:	1300 mm	Max Span:	3500 mm
	Min Width:	1500 mm	Max Width:	4000 mm
	Min Height:	850 mm	Max Height:	1500 mm
	Min Area:	1.95 m ²	Max Area:	8.40 m ²
	Min Upstand Pitch:	0°	Max Upstand Pitch:	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 upstand 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 Colours: 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 an electrical mains supply. It is recommended that the PSU is housed somewhere accessible.

Performance and Weathertightness:

The unit is driven by two leadscrew mechanisms that are synchronised using motor encoder feedback and, in the event of power failure, can be manually overridden.

The product comprises thermally broken aluminium 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-values 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 span x 2400 mm width x 1500 mm height Pitch: 0°

Test	Standard	Classification/Declared Value
Air permeability	EN 12207	Class 2 ±300 Pa
Watertightness	EN 12208	Class 7A 300 Pa
Wind resistance	EN 12210	Class C3 +2400 Pa, -1200 Pa Serviceability +3200 Pa, -1250 Pa 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:

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 Colour(s):	This product has separate inner and outer colours as standard. Each can be swapped for a special colour.
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.
BMS Connectivity:	Allows the product to be operated by contact closure of a third-party Building Management System.
Upstand Top Trim:	Cover designed to mask the top of upstands which may be visible through glass when viewed from above. Includes detail to recess standard plasterboard.

A suite of sales drawings is available.

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