



Name: Three Wall Box

Type: Electrically operated sliding rooflight

Description:

The Three Wall Box is a thermally efficient opening product designed to allow access from a stairwell to a roof terrace or similar. It is fixed to the building structure at the back and either side. 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.

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:	1100 mm	Max Span:	2400 mm
	Min Width:	1700 mm	Max Width:	4200 mm
	Min Height:	300 mm	Max Height:	1500 mm
	Min Area:	1.87 m ²	Max Area:	6.00 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.

The unit is driven by a rack and pinion mechanism mounted at the front of the door, and in the event of power failure, can be manually overridden.

Performance and Weathertightness:

The product comprises thermally broken aluminium sections consisting of hardwood 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 with lead (or other material) flashing 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.

Security:

The product is fitted with an anti-lifting device to prevent disengagement of the drive mechanism. 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 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.
Solenoid Bolt:	An automatically operating electric lock, which is linked to the control system, that can be added to the product to provide additional security when it is in the closed position.
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.

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.

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