Technical Data Sheet

GLAZING VISION

Skydoor Rooflight

406-TDS-UK-001 – v1.0 – 18 Oct 2019

Name: GV Standard Skydoor

Type: Hinged rooflight for access and ventilation

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 Building Management System connectivity are available. Proximity detection (safety sensors) 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 rooflight to be used for regular access, to provide natural daylight, day-to-day ventilation and weather resistance.

External Weathered Upstand Dimensions:

Min Span:	1000 mm	Max Span:	2100 mm
Min Width:	1300 mm	Max Width:	3800 mm
Min Upstand Pitch:	3°	Max Upstand Pitch:	10°

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 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 internally housed Power Supply Unit requiring connection to an electrical mains supply. If a battery backup is supplied, this will be externally housed, and 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 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 polybutyl and/or 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 span x 3488 mm width Pitch: 3°

Test	Standard	Classification/Declared Value	
Air permeability	BS EN 12207	Class 4	±600 Pa
Watertightness	BS EN 12208	Class 9A	600 Pa
Wind resistance	BS EN 12210	Class 4C	+2400 Pa, -1600 Pa Serviceability +3600 Pa, -2400 Pa 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.

This product is tested to LPS2081 Issue 1:2015. It is approved by the Loss Prevention Certification Board (Cert/LPCB ref: 1347a) and Secured by Design:

Secure (Security Rating A)
The inner pane must be at least 8.8 mm PVB laminated glass (two 4 mm thick panes separated by an 0.8 mm thick PVB interlayer).

Secure+ (Security Rating B)
The inner pane must be at least 9.5 mm ionomer laminated glass (two 4 mm thick panes separated by a 1.5 mm thick ionomer interlayer).

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 Override: Either an internally mounted wall switch or an externally mounted key 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.

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