



Technical Data Sheet



Xvent AOV Rooflight

405-TDS-UK-001 – v1.3 – 14 Jan 2021



Name: Xvent

Type: Electrically operated hinged AOV rooflight

Description:

The Xvent is an opening rooflight designed to vent smoke as an Automatically Opening Vent (AOV) and to provide day-to-day ventilation. The lid opens to an angle of 45° for ventilation, and to 140° when triggered by the fire alarm system.

The Xvent has been designed and tested to EN 12101-2:2003.

A variety of optional extras including a rain sensor, thermostat, remote control, and Building Management System connectivity are available.

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

Intended Use: Hinged AOV rooflight for smoke ventilation. Also provides natural daylight, day-to-day ventilation and weather resistance. It is not suitable for use as access.

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|---|----------------------------------|---------------------|----------------------------------|---------------------|
| External Weathered Upstand Dimensions: | Min Span: | 1400 mm | Max Span: | 1400 mm |
| | Min Width: | 1400 mm | Max Width: | 1900 mm |
| | Min Internal Measured Free Area: | 1.00 m ² | Max Internal Measured Free Area: | 1.50 m ² |
| | Min Upstand Pitch: | 3° | Max Upstand Pitch: | 5° |

Glazing Vision recommends a pitch of at least 5°.

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 externally housed Power Supply Unit requiring connection to an electrical mains supply. It is recommended that the PSU is housed somewhere accessible. The product has a trickle charged back up battery pack mounted within the frame to allow the AOV functionality to be retained in the event of power failure.

The unit is driven by two parallel linkage mechanisms that are synchronised using motor 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 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.

Security and Certification:

This product is designed with security as a priority. The mechanisms cannot be back driven.

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).

Certification as an AOV:

This product is certified to EN 12101-2-2003 and is UKCA marked. Visit our website or contact your technical sales advisor for up to date certification documentation.

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 (except when activated as an AOV).

Thermostat:

Automatically operates the product to regulate the temperature within the building (except when activated as an AOV).

BMS Connectivity:

Allows the product to be operated by contact closure of a third-party Building Management System (except when activated as an AOV).

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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