



Technical Data Sheet

V.07-2019

Flatglass AOV Smoke Vents

- Flatglass AOV Smoke Vents provide an attractive BS EN 12101-2 compliant solution for heat and smoke ventilation

Key Features & Benefits

- 15 year warranty*
- Flatglass AOV Smoke Vents come in two standard sizes, which achieve an Aerodynamic Free Area (Afa) of 1.0m² and 1.5m²
- Powered by two 24v concealed folding arm actuators
- EMB 7300 Control Panel comes with Electric Lock, Battery Backup and 230v Transformer
- Thermally-broken aluminium frame improves thermal performance and prevents cold bridging, reducing the risk of condensation
- Excellent thermal performance, with total system U-values as low as 0.6 W/m².K achievable
- Quick and easy to install on-site
- Designed to be installed on roof pitches between 1° and 5°
- Recommended pitch of 5° to help shed water. 5° max to retain the geometric free area
- Minimal framework: daylight is maximised while the visible framework is minimised
- More daylight = less artificial light = energy savings
- BIM Objects
- NBS Specification document
- Product CAD drawings
- Install guides, wiring and setup instructions
- More daylight leads to enhanced well-being

Frame Specification

- The Fixed Flatglass rooflight frame is manufactured from extruded aluminium section to BS 1474, EN 12020-1:2001
 - Polyamide thermal break to BS EN ISO 16396-2:2017 within the glazing frame makes it fully thermally-broken and extremely thermally-efficient
 - Polyester Powder Coated Aluminium to BS EN 12206-1:2004
 - RAL Colour: Anthracite Grey (RAL 7016) frames
 - White (RAL 9010) and Black (RAL 9005) frames are also available as standard options
 - Bespoke RAL colour options available

Glass Specification

Double Glazed - Standard:

Outer: 6mm Clear Heat Soak Tested Toughened glass + Border
 Cavity: 16mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal
 Inner: 6mm Clear Heat Soak Tested Toughened glass with Soft Low-E coating to cavity face

Double Glazed - Laminated Inner:

Outer: 6mm Clear Heat Soak Tested Toughened glass with Soft Low-E coating to cavity face
 Cavity: 16mm or 14mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal
 Inner: 6.8mm or 9.5mm* Laminated glass with PVB interlayer and polished edges

**9.5mm only available as a 1m² Afa option*

Product Testing & Certification

- Weathertightness: CWCT Class A4 Air leakage, Resistance to Wind Class E2400 Pa and Watertightness Class R7
- AA Fire-rated: AA Designation (National Class) or Broof (T4) European Class and Euro Class A1 non-combustible
- EN 12101-2 Certified

Critical Kerb External Dimensions (Standard Glass Specification)

- Min. Kerb Height: 150mm (at the eaves end)
- Min. Kerb Thickness: 75mm (excluding finishes)
- Max. Size: 1284mm x 1884mm (1.5m² Afa)
- Min. Size: 1284mm x 1344mm (1m² Afa)
- Max. Pitch: 5°
- Min. Pitch: 0°
- Max. Opening Angle: 140°

Bespoke Glass Options

- Solar Control
- Privacy Glass
- Body Tinted
- Acoustic Laminate
- Coloured Glass
- Easy-Clean Coatings (Ritec)
- CUI Advanced Thermal Performance



Roofglaze

Lighting, by nature.™

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British Standards Compliance

BS 6375-1: 2015+A1:2016 Weathertightness
BS EN 1026:2016 Air Permeability
BS EN 1027: 2016 Watertightness
BS EN 12211: 2016 Wind Resistance
BS EN 12206-1:2004: Polyester Powder Coating

Rooflight Performance

Building Regulations (E&W)
Approved Document L compliant design to achieve low U-values
U-values: As low as 0.6 W/m².K
G-values: As low as 0.19
Light Transmission: Up to 79.1%

Design Loadings

Snow: 640 N/m²
Wind: 750 N/m²

Product Weights

1m² Afa: 121 kg
1.5m² Afa: 164 kg

Rooflight Cleaning & Maintenance

All of our Flatglass rooflights can be supplied with an easyclean coating, the **Ritec ClearShield** system provides an efficient solution to greatly reduce the need for cleaning.

'Non-stick', easy-clean rooflight protection provides:

- ▶ Reduced cleaning time, effort and frequency
- ▶ Keeps rooflights looking like new, staying cleaner for significantly longer
- ▶ Resists glass staining and contamination from tree sap, bird droppings, traffic pollution and general dirt
- ▶ Helps to maintain Window Energy Ratings

*Please see the Roofglaze Terms & Conditions of Sale for more details

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Get in touch for Technical and Estimating Advice

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