

Flatglass AOV Smoke Vents

Flatglass AOV Smoke Vents provide an attractive BS EN 12101-2 complaint 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
- SP600 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/m²K achievable
- Quick and easy to install on-site
- Designed to be installed on roof pitches between 3 and 5 degrees
- Recommended pitch of 5 degrees to help shed water and also retain the geometric free area
- Minimal framework: daylight is maximised while the visible framework is minimised

Critical Kerb External Dimensions (Standard Glass Specification)

Min. Kerb Height: 150mm (at the eaves end)
Min. Kerb Thickness: 75mm (excluding finishes)
Max. Kerb Thickness: Dependent on glass specification
Max. Size: 1284mm x 1884mm (1.5m² AFA)
Min. Size: 1284mm x 1344mm (1m² AFA)
Max. Pitch: 5°
Min. Pitch: 3°
Max. Opening Angle: 140°

British Standards Compliance

BS 6375-1: Weathertightness
BS EN 1026: Air Permeability
BS EN 1027: Watertightness
BS EN 12211: Wind Resistance
BS EN 12206-1:2004: Polyester Powder Coating
BS EN 12101-2:2017: Natural Smoke & Heat Exhaust Ventilation

Bespoke Glass Options

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



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

Product Testing & Certification

- **Weathertightness:** CWCT Class A4 Air leakage, Resistance to Wind Class E2400 Pa and Watertightness Class R7
- **Non-fragility:** CWCT TN66/67 and TN92, with Class 1 and Class 2 compliant solutions available
- **AA Fire-rated:** AA Designation (National Class) or BROF (T4) European Class and Euro Class A1 non-combustible

Frame Specification

- The Fixed Flatglass rooflight frame is manufactured from extruded aluminium section to BS 1474, EN 12020-1:2001
- Polyester Powder Coated Aluminium to BS EN 12206-1:2004
- **RAL Colours:** Anthracite Grey (RAL 7016) frames on standard rooflights
- 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
Cavity: 16mm Argon filled with Swisspacer warm edge spacer silicone bonded
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
Inner: 6.8mm or 9.5mm[^] Laminated glass with PVB interlayer and polished edges

[^]9.5mm only available as a 1m² AFA option

Design Loadings

Snow: 640 N/m²
Wind: 750 N/m²

Product Weights

1m² AFA: 121 kg
1.5m² AFA: 164 kg

Rooflight Performance

Building Regulations (E&W)
 Approved Document L compliant design to achieve low U-values

U-values: As low as 0.6 W/m²K

G-values: As low as 0.19

Light Transmission: Up to 78.5%



Get in touch for Technical and Estimating Advice:

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