

## Flatglass

### 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 1.0m<sup>2</sup> and 1.5m<sup>2</sup>
- 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/m<sup>2</sup>K 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 (1.5m<sup>2</sup> AFA)  
 Min. Size: 1284mm x 1344mm (1m<sup>2</sup> 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)
- CUIIN Advanced Thermal Performance



#### 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 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<sup>^</sup> Laminated glass with PVB interlayer and polished edges

<sup>^</sup>9.5mm only available as a 1m<sup>2</sup> AFA option

#### Design Loadings

Snow: 640 N/m<sup>2</sup>  
 Wind: 750 N/m<sup>2</sup>

#### Rooflight Performance

Building Regulations (E&W)  
 Approved Document L compliant design to achieve low U-values  
 U-values: As low as 0.6 W/m<sup>2</sup>K  
 G-values: As low as 0.19  
 Light Transmission: Up to 78.5%

#### Product Weights

1m<sup>2</sup> AFA: 121 kg  
 1.5m<sup>2</sup> AFA: 164 kg



Get in touch for Technical and Estimating Advice

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