



# Skyway AOV Smoke Vent

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

Technical  
Data  
Sheet  
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## Key Features & Benefits

- 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> respectively
- Powered by two 24v concealed folding arm actuators
- Control Panel comes with Electric Lock, Battery Backup and 24v Transformer
- Fully thermally broken aluminium frames prevent cold bridging, reducing the risk of condensation. Fully insulated base frame provides excellent thermal efficiency
- Certified to EN12101-2 Smoke and Heat Ventilation
- Access and ventilation options
- Smoke, gas, wind, rain sensors available
- Break glass and override switches available
- Full integration to building fire management system
- Excellent thermal performance, with total system U Values as low as 0.9 W/m<sup>2</sup>.K achievable
- Quick and easy to install. Cover cap for concealed fixings
- Compatible with both flat and pitched roofs, Flatglass rooflights are installed to a builder's kerb finished by roofing membrane
- Designed to be installed on flat roofs with no more than 5° pitch
- Minimal framework: daylight is maximised while the visible framework is minimised
- More daylight = less artificial light = energy savings
- BIM Objects
- NBS/ SpecifyBy Specification documents
- Product CAD drawings
- Install guides
- More daylight leads to enhanced well-being
- Install and survey services
- Free air calculations

## Frame Specification

- The Skyway Hinged Flatglass rooflight frames are manufactured from extruded aluminium section to BS 1474, EN 12020-1:2001
- Polyamide thermal breaks in lid and base frame to BS EN ISO 16396-2:2017 making the frames fully thermally broken and extremely thermally-efficient
- Polyester Powder Coated Aluminium to BS EN 12206-1:2004
- RAL Colours: Anthracite Grey (RAL 7016) Matt
- White (RAL 9010) and Black (RAL 9005) Matt are also available as standard options
- Bespoke RAL colour options also available. Matt finish as standard

## Glass Specification

Hermetically sealed Double Glazed - IGU:  
**Outer:** Heat Soak Tested Toughened glass  
**Cavity:** 16mm Argon filled with Swisspacer warm edge spacer + silicone bonded for a fully UV resistant edge seal  
**Inner:** Laminated or Heat Soak Tested Toughened Glass + Soft Coat Low-E for excellent thermal efficiency. For even better thermal efficiency, bespoke glass with ultra-low U Values is available to special order

Hermetically sealed Double Glazed IGU (CWCT Class 2 Non-fragile):  
**Outer:** 6mm Clear Heat Soak Tested Toughened glass  
**Cavity:** 16mm Argon filled with warm edge Swisspacer spacer + silicone bonded for a fully UV resistant edge seal  
**Inner:** 9.5mm Laminated glass with PVB interlayer and polished edges  
Sandblasted perimeter borders as standard. Painted border optional

## Product Testing & Certification

- Non-fragility: CWCT TN92, with Class 2 compliant solutions available
- Non-Fragility Class 2 Certified by Vinci
- AA Fire-rated: AA Designation (National Class) or Broof (T4) European Class and Euro Class A1 non-combustible
- Weather tested by BRE to CWCT Class A4 & Class R7
- Skyway Flatglass Protect+ Rooflights Part Q compliant

## Critical Kerb External Dimensions = Rooflight Order Size

**Min. Kerb Height:**  
150mm (at the eaves end)  
**Min. Kerb Thickness:**  
100mm (including finishes) so frame is hidden from inside giving clean glass sight lines  
**Max. Size:**  
Dependent on glass specification  
**Min. Recommended Kerb Pitch:**  
5° to maintain AFA m<sup>2</sup> sizes

## Bespoke Glass Options

- Solar Control
- Privacy Glass
- Body Tinted
- Acoustic Laminate
- Coloured Glass
- Easy-Clean Coatings (Ritec)
- CUin Advanced Thermal Performance
- Standard blind under glass connected to base frame or in lightwell
- Paint or Sandblast borders
- Low Iron Glass
- Artwork manifestations
- Company logo manifestations

## British Standards Compliance

- EN12101-2 Smoke and Heat Ventilation
- 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
- BS EN ISO 16396-2:2017 Thermal Break

- BS 1474, EN 12020-1:2001 Extruded Aluminium Sections
- BS EN 14351-1: 2006 + A2: 2016 Window Performance
- BR443: 2019 Conventions for U Value Calculations

## Rooflight Performance

- Building Regulations (E&W) Approved Document L compliant design to achieve low U Values
- Building Regulations (E&W) Approved Document B compliant
- U Values: As low as 0.9 W/m<sup>2</sup>.K
- G-values: As low as 0.19
- Light Transmission: Up to 79.1%
- Thermal Modelling by WinIso

## Design Loadings

Snow: 640 N/m<sup>2</sup>  
Wind: 750 N/m<sup>2</sup>  
Other loads to be specified by Client

## Product Variations

- Single
- Rectangular
- Flatglass Protect+ Doc Q compliant

## Control Options

- Battery backup control panel
- Access and ventilation options
- Smoke, gas, wind, rain sensors available
- Break glass and override switches available
- Full integration to building fire management system

## Rooflight Cleaning & Maintenance

All our Skyway 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

Get in touch for Technical and Estimating Advice

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