

## **Roofglaze Rooflights Ltd**

Tel: 01480 474797

To be read with Preliminaries / General Conditions.

### **PRELIMINARY INFORMATION / REQUIREMENTS**

Site dimensions must be taken and agreed to prior to the commencement of fabrication of the Rooflight Frames. All information should be read in conjunction with the approved drawings, specs and quotation.

### **COMPONENTS**

#### ALUMINIUM ROOFLIGHTS:

- A self-supported system, for applications in commercial or residential buildings.
- The system is installed to a builder's kerb, finished by roofing membrane. Recommended minimum pitch is 5° to shed water but can be installed almost flat. Maximum pitch 5° to retain geometric free area.
- Double glazed with hermetically sealed glass, finished with 72mm & 155mm sandblasted perimeter as standard but any size available upon request. Painted border on toughened glass units only.
- Frames are manufactured from extruded aluminium section to EN 12020-1:2001.
- Thermally broken frame.
- Third party test accreditation to BS EN 12101-2:2003.
- Polyester Powder Coated aluminium to BS EN 12206-1:2004.
- **15 Year warranty.**

#### PRODUCT

- Type: **Hinged Smokelite 140° AOV Vent Flatglass – 1m<sup>2</sup> or 1.5m<sup>2</sup>**
- A technical drawing of this product is available from:

<https://www.roofglaze.co.uk/resources/product-drawings/>

Frame: Extruded aluminium section to BS1474

Kerb: Recommended min. 150mm high and min. 100mm wide

- Manufacturer:

ROOFGLAZE ROOFLIGHTS LTD  
11 Howard Road, Eaton Socon  
St Neots, Cambridgeshire  
PE19 8ET  
Tel: 01480 474797  
Web: [www.roofglaze.co.uk](http://www.roofglaze.co.uk)  
E-mail: [info@roofglaze.co.uk](mailto:info@roofglaze.co.uk)

Dirt Resistant coatings - Ritec ClearShield easy clean coating

Solar Control Options - SGG COOL-LITE SKN solar control range or similar approved  
Body Tint Anti-sun - Pilkington Optifloat Tint range or similar approved



- Thermal Performance:

Double glazed total product U-value = 1.6 W/m<sup>2</sup>.K but as low as 1.3 W/m<sup>2</sup>.K  
Triple glazed total product U-value = 1.2 W/m<sup>2</sup>.K but as low as 1.0 W/m<sup>2</sup>.K  
*Area weighted U-values based upon a typical 1m x 2m unit*

- Service:

Roofglaze Rooflights can also provide a design and specification service and it is recommended that they are consulted early in the design process.

The Hinged Smokelite 140° AOV Vent Flatglass must be installed at a maximum pitch of 5° to retain aerodynamic free air area.

### Hinged Smokelite 140° AOV Access Rooflight – 1m<sup>2</sup> or 1.5m<sup>2</sup>

#### Type 1

- Manufacturer: Roofglaze Rooflights Ltd
  - Web: [www.roofglaze.co.uk](http://www.roofglaze.co.uk)
  - Tel: +44 (0)1480 474797
  - Product reference: Hinged Smokelite 140° AOV Access Rooflight – 1m<sup>2</sup> or 1.5m<sup>2</sup>
- Type: **Rectangular**
- Size: **1m<sup>2</sup> free air or 1.5m<sup>2</sup> free air**
- Frame finish: **Standard Marine Grade Polyester Powder Coated RAL: Colour T.B.C.**
- Glazing:
  - Outer pane: **6mm heat soak tested toughened clear glass with sandblasted border**
  - Cavity: **20mm 18mm 90% argon filled, silicone bonded + warm edge spacer**
  - Inner pane: **6mm heat soak tested toughened or 6.8mm 8.8mm 9.5mm laminated clear glass (8.8 or 9.5mm inner on 1m<sup>2</sup> unit only)**
  - Soft Low-E coating: **Required**
- Additional requirements / options: Detailed site survey recommended prior to manufacture.  
Min. 150mm high x 100mm thick structurally sound kerb not by Roofglaze Rooflights.  
Flashing of kerb, not by Roofglaze Rooflights.  
2 no. 24v concealed folding arm actuators.  
High performance solar control.  
Obscure glazing available, sandblast all over, coloured PVB interlayer or satin glass.  
Body tint glass grey, bronze, blue or green.  
Ritec ClearShield easy clean coating.  
Specialist AOV control unit, 230v to 24v transformer + battery backup.  
Smoke detector.  
Fireman's override switch.  
Emergency break glass unit.  
Integrate to BMS.  
Acoustic laminated glass on 1m<sup>2</sup> unit only.  
Heat strengthened laminate on 1m<sup>2</sup> unit only.  
Coloured laminated glass on 1m<sup>2</sup> unit only.  
Improved U-values with super Low-E coating.  
Dot matrix pattern.  
Low iron glass.  
External kerb dims: 1m<sup>2</sup> = 1284mm x 1344mm or 1.5m<sup>2</sup> = 1284mm x 1884mm  
Modular timber kerb at 5° pitch or similar.



### More about Hinged Smokelite 140° AOV Vent Flatglass – 1m<sup>2</sup> or 1.5m<sup>2</sup>:

- A self-supported rooflight for applications in commercial and residential buildings.
- Building Regulations (E&W) Approved Document L compliant design to achieve low U-value targets.
- Silicone jointed glazing for a flush outer surface.
- Ventilation option for natural ventilation in accordance with Building Regulation (E&W) Approved Document F available.
- Automatic Opening Vents (AOV) for smoke ventilation to BS EN 12101-2:2003.
- Designed to be installed to a weathered builder's kerb, maximum 5° pitch.
- Non-fragile to ACR[M]:001 Class B and with laminated glass CWCT TN92 class 2 (class 2 on 1m<sup>2</sup> option only).
- AA fire rated: AA designation (National Class) designation or Broof(t4) (European class)
- Designed to standard loadings of 640 N/m<sup>2</sup> (wind) and 750 N/m<sup>2</sup> (snow) and in accordance with the following British Standards:
  - BS 6375-1: Weather tightness.
  - BS EN 1026: Air permeability.
  - BS EN 1027: Water tightness test.
  - BS EN 12211: Wind resistance test.
  - BS EN 12101-2:2003 Smoke and Heat Control
  - BS EN 12206-1:2004 Polyester Powder Coated aluminium.
- Aluminium frame weight = 3.75 kg/m.
- **15 Year warranty.**