

# **Technical Data Sheet** V.07-2019

### **Fixed Flatglass Rooflights**

► An aesthetically-pleasing and effective daylighting solution for residential, commercial and public buildings

### **Key Features & Benefits**

- ▶ 15 year warranty\*
- Fully thermally-broken aluminium frame prevents cold bridging, reducing the risk of condensation
- Excellent thermal performance, with total system U-values as low as 0.5 W/m².K achievable
- ▶ Quick and easy to install on-site
- 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 roof pitches from 1°
- ▶ Recommended minimum kerb pitch of 5° to help shed water
- 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
- ▶ 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: 4mm or 6mm Clear Heat Soak Tested Toughened glass

Cavity: 24mm or 20mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal Inner: 4mm or 6mm Clear Heat Soak Tested Toughened glass with Soft Low-E coating to cavity face

### Double Glazed (CWCT Class 1 Non-fragile):

Outer: 10 or 12mm Clear Heat Soak Tested Touahened glass

Cavity: 16mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal

Inner: 9.5, 10.8, 11.5, 13.5mm Laminated glass with PVB/ SGP interlayer and Soft Low-E coating to cavity face with polished edges

#### Double Glazed - Laminated Inner:

Outer: 6mm Clear Heat Soak Tested Toughened glass with Soft Low-E coating to cavity face

Cavity: 18 mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal

Inner: 8.8, 9.5, 10.8, 11.5, 13.5mm Laminated glass with PVB interlayer and polished edges

### Double Glazed (CWCT Class 2 Non-fragile):

Outer: 6mm Clear Heat Soak Tested Toughened glass with Soft Low-E coating to cavity face

Cavity: 16mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal

Inner: 9.5mm Laminated glass with PVB interlayer and polished edges or 11.5mm Laminated glass with SGP interlayer and polished edges

Double or Triple Glazed with hermetically-sealed glass, and optional painted or sandblasted perimeter borders are available upon request.

### **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 Broof (T4) European Class and Euro Class A1 non-combustible
- ► Fixed Flatglass Protect+ Rooflights: Secured by Design and Part Q compliant, tested to Certisecure STS202, achieving resistance class BR2 (see Protect+ data sheet for more)

## 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: 2500mm x 3200mm (dependent on glass specification)

Min. Size: 400mm x 400mm

Min. Recommended Pitch: 5° to shed water





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### **Bespoke Glass Options**

- ► Solar Control
- ► Privacy Glass
- ▶ Body Tinted
- ► Acoustic Laminate
- ► Coloured Glass
- ► Easy-Clean Coatings (Ritec)
- ► CUin Advanced Thermal Performance
- ► Triple Glazed and Laminated Inner pane options
- Switchable Privacy Glass
- ► Heated anti-condensation Glass
- ► Integral Blind
- ► Paint or Sandblast borders

### **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/m<sup>2</sup> Wind: 750 N/m<sup>2</sup>

### **Product Variations**

- ► Single or multi-pane options
- ► Walk-on rooflights
  - Circular, elliptical and bespoke shaped rooflights

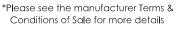
- ▶ Wall, Head and Verge Abutment details
- ► Head and Verge Abutments available on up to three sides
- ► Flatglass Protect+ Secured by Design compliant range (see Protect+ data sheet and the website for more details on this product range)

### **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





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