

# 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 0.6 W/m<sup>2</sup>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 and finished by roofing membrane
- Designed to be installed on roof pitches from 3 degrees
- Recommended minimum pitch of 5 degrees to help shed water
- Minimal framework: daylight is maximised while the visible framework is minimised

## Frame Specification

- The Fixed Flatglass rooflight frame is manufactured from extruded aluminium section to BS 1474, EN 12020-1:2001
- Polyamide thermal break within the glazing frame makes it fully thermally-broken and extremely thermally-efficient
- Polyester Powder Coated Aluminium to BS EN 12206-1:2004
- **RAL Colours:** Anthracite Grey (RAL 7016) frames on stock 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:** 4mm or 6mm Clear Heat Soak Tested Toughened glass  
**Cavity:** 24mm or 20mm Argon filled with Swisspacer warm edge spacer silicone bonded  
**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:** 12mm Clear Heat Soak Tested Toughened glass  
**Cavity:** 16mm Argon filled with Swisspacer warm edge spacer silicone bonded  
**Inner:** 13.5mm Laminated glass with 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:** 18mm Argon filled with Swisspacer warm edge spacer silicone bonded  
**Inner:** 8.8mm 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  
**Inner:** 9.5mm Laminated glass with PVB interlayer and polished edges

## Product Testing & Certification

- **Weather-tightness:** 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
- **Fixed Flatglass Protect+ Rooflights:** Secured by Design and Part Q compliant, tested by Exova, achieving resistance class BR2 to the STS 202 standard (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. Pitch:** 3°



# Flatglass

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

## Glass Specification

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

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

**Cavity:** 16mm Argon filled with Swisspacer warm edge spacer silicone bonded

**Inner:** 11.5mm Laminated glass with SGP interlayer with polished edges

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

## Bespoke Glass Options

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



## 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

## 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%

## Design Loadings

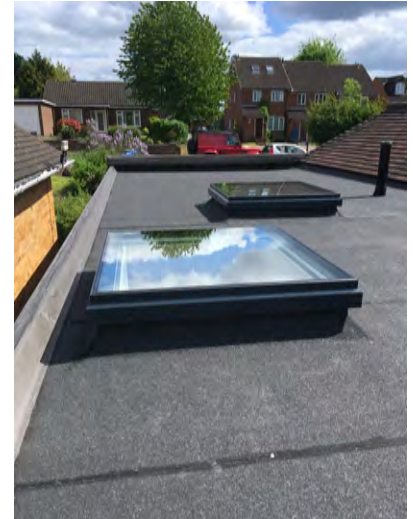
**Snow:** 640 N/m<sup>2</sup>

**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 Roofglaze website for more details on this product range)



## Rooflight Cleaning & Maintenance

All of our Flatglass rooflights can be supplied with an easy-clean 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 your Window Energy Rating
- More daylight leads to enhanced well-being

## Get in touch for Technical and Estimating Advice:

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