



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 Toughened glass
Cavity: 16mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal
Inner: 9.5, 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: 18mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal
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 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 Laminated
- ▶ Coloured Glass
- ▶ Easy-Clean Coatings (Ritec)
- ▶ CUIin 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/m²
Wind: 750 N/m²

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 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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Helping daylight do its work!

