Technical Data Sheet

V.08-2020

Multi-section Flatglass Rooflights

- A smart and effective daylighting and/or ventilation 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^2.K achievable
- Quick and easy to install on-site including fixing 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 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 Multi-section 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: 4 or 6mm Clear Heat Soak Tested Toughened glass
Cavity: 16mm Argon filled with Swisspacer warm edge spacer silicone bonded for a UV resistant edge seal
Inner: 4 or 6mm Clear Heat SoakTested Toughened glass with Soft Low-E coating to cavity face

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

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 SGP interlayer and Soft Low-E coating to cavity face with 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 IGU's 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
- Tested to Certisecure STS202 BR2 so DOC Q compliant

Critical Kerb External Dimensions (Standard Glass Specification)

Min. Kerb Height: 150mm (at the eaves end)
Min. Kerb Thickness: 87mm (excluding finishes)
Max. Slope: 3200mm (dependent on glass specification)
Bigger Sizes Available to Special Order
Min. Slope: 400mm
Max. Length: Unlimited bays but widths are dependent on the overall length and glass spec
Min. Recommended Pitch: 5° to shed water

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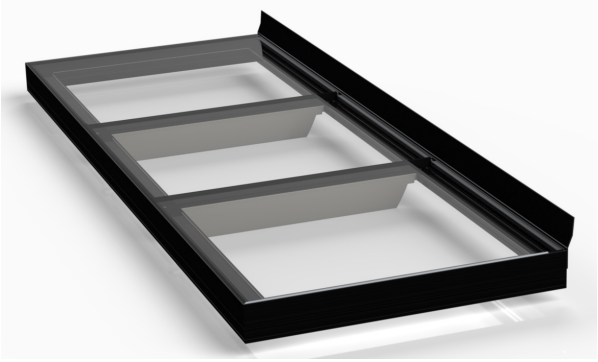
Technical Data Sheet

V.07-2019



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 border
- Low Iron Glass

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/m^2.K
G-values: As low as 0.19
Light Transmission: Up to 79.1%

Design Loadings

Snow: 640 N/m^2
Wind: 750 N/m^2

Product Variations

- Multi-pane with silicone jointed glazing for a flush finish
- Triple Glazed rooflights
- Walk-on rooflights
- Interlocking glazing bars (any Standard RAL colour)
- White (RAL 9010) uPVC Aero-fin shroud to cover glazing bars (other RAL colours available)
- Circular, bespoke shaped and tapered rooflight options
- Wall, Head and Verge Abutment details
- Head and Verge Abutments available on up to three sides
- Bespoke solutions for natural ventilation are available

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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