Roofglaze

Lighting, by nature.™

Skyway Manual Hinged

A contemporary, easy-to-use ventilation and daylighting solution for modern buildings

Technical Data Sheet
V.07-2021

Key Features & Benefits

- Used to let in light and for ventilation
- Fully thermally broken aluminium frames prevent cold bridging, reducing the risk of condensation. Fully insulated base frame provides excellent thermal efficiency
- Excellent thermal performance, with total system U Values as low as 0.9 W/m².K achievable
- Quick and easy to install. 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 all roof pitches and roof types
- 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/ SpecifyBy Specification documents
- Product CAD drawings
- Install guides
- More daylight leads to enhanced well-being
- Install and survey services
- Free air calculations

Frame Specification

- The Skyway Manual Hinged Flatglass rooflight frames are manufactured from extruded aluminium section to BS 1474, EN 12020-1:2001
- Polyamide thermal breaks in lid and base frame to BS EN ISO 16396-2:2017 making the frames fully thermally broken and extremely thermally-efficient
- Polyester Powder Coated Aluminium to BS EN 12206-1:2004
- RAL Colours: Anthracite Grey (RAL 7016) Matt
- White (RAL 9010) and Black (RAL 9005) Matt are also available as standard options
- Bespoke RAL colour options also available. Matt finish as standard

Glass Specification

Hermetically sealed Double Glazed - IGU:

Outer: Heat Soak Tested Toughened glass

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

Inner: Laminated or Heat Soak Tested Toughened Glass + Soft Coat Low-E for excellent thermal efficiency. For even better thermal efficiency, bespoke glass with ultra-low U Values is available to special order

Hermetically sealed Double Glazed IGU (CWCT Class 1 Non-fragile):

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

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

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

Hermetically sealed Double Glazed IGU (CWCT Class 2 Non-fragile):

Outer: 6mm Clear Heat Soak Tested Toughened glass

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

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

Triple & Quadruple Glazed IGU's with hermetically sealed glass, and optional painted or sandblasted perimeter borders are available upon request.

Product Testing & Certification

- Non-fragility: CWCT TN92, with Class 1 and Class 2 compliant solutions available
- Non-Fragility Class 1 Certified by BRE
- Non-Fragility Class 2 Certified by Vinci
- AA Fire-rated: AA Designation (National Class) or Broof (T4) European Class and Euro Class A1 non-combustible
- Weather tested by BRE to CWCT Class A4 & Class R7
- Skyway Flatglass Protect+ Rooflights Part Q compliant

Critical Kerb External Dimensions = Rooflight Order Size

Min. Kerb Height:
150mm (at the eaves end)

Min. Kerb Thickness:
100mm (including finishes) so frame is hidden from inside giving clean glass sight lines

Max. Size:
Dependent on glass specification

Min. Recommended Kerb Pitch:
5° to shed water

Bespoke Glass Options

- Solar Control
- Privacy Glass
- Body Tinted
- Acoustic Laminate
- Coloured Glass
- Easy-Clean Coatings (Ritec)
- CUin Advanced Thermal Performance
- Triple Glazed
- Quadruple Glazed
- Switchable Privacy Glass
- Heated anti-condensation Glass
- Integral Blind within cavity of glass IGU - zero maintenance
- Standard blind under glass connected to base frame or in lightwell
- Paint or Sandblast borders
- Low Iron Glass
- Artwork manifestations
- Company logo manifestations

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
- BS EN ISO 16396-2:2017 Thermal Break
- BS 1474, EN 12020-1:2001 Extruded Aluminium Sections
- BS EN 14351-1: 2006 + A2: 2016 Window Performance
- BR443: 2019 Conventions for U Value Calculations

Rooflight Performance

- Building Regulations (E&W) Approved Document L compliant design to achieve low U Values
- U Values: As low as 0.4 W/m².K
- G-values: As low as 0.19
- Light Transmission: Up to 79.1%
- Thermal Modelling by WinIso

Design Loadings

Snow: 640 N/m²

Wind: 750 N/m²

Other loads to be specified by Client

Product Variations

- Single
- Square
- Rectangular
- Triangular
- Hexagonal
- Pentagonal
- Octagonal
- Flatglass Protect+ Doc Q compliant

Control Options

- Fixed winding Pole
- Telescopic Winding Pole

Rooflight Cleaning & Maintenance

All our Skyway 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

Get in touch for Technical and Estimating Advice
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*Please see the Roofglaze Terms & Conditions of Sale for more details