



Skyway Fixed

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

Technical
Data
Sheet
V.1 2023

Key Features & Benefits

- Fully THERMALLY broken ALUMINIUM Frame prevents cold bridging, reducing the risk of condensation
- Total combined product Ud value of rooflight and kerb far exceeds the requirements of Approved Document Part L of the building regulations.
- All RGR products have been tested using WinISO thermal modelling software.
- Cover cap ensures no visible fixings and hardware, with quick and simple installation.
- Compatible with all roof types, Flatglass rooflights are installed on a modular factory fabricated timber kerb. Which is finished on site with weatherproof roofing membrane
- Prefabricated kerb comes with 5° fall as standard to help shed water off the glass

- MINIMALFRAMEwork: daylight is MAXIMISED while the visible FRAMEWORK IS MINIMISED
- More daylight = less artificial light = energy savings
- BIM Objects
- NBS/SpecifyBySpecification DOCUMENTS
- Product CAD drawings
- Install guides
- More daylight leads to enhanced well-being
- Install and survey services

Frame Specification

- The Skyway Hinged Flatglass rooflight frames are manufactured from extruded aluminium section to BS EN12020-1-2022 & BS EN 12020-2022

- 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
- Marine Grade Polyester Powder Coated Aluminium to BS EN 12206-1:2021
- RAL Colours: Anthracite Grey (RAL 7016)
- Black (RAL 9005) Matt is also available as standard option.
- Other RAL colours and gloss levels available as non-standard options. As well as a Vast array of control and sensor options are available

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 UV values is available to special order

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

Outer: 8mm, 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

Our rooflights have been extensively tested both in-house and by accredited third party test houses for CWCT Non-fragility

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 TN66 & 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
- Weather tested by BRE to CWCT Class A4 & Class R7
- Skyway Flatglass Protect+ Rooflights Part Q COMPLIANT

Pre-fabricated Timber Kerb

- Eaves height 150mm
- 5° Fall as standard
- Stress graded to C16
- Slow grown and kiln dried for extra stability
- Responsibly sourced, forest friendly and FSC Certified
- PEFC Approved
- Celotex GA3050 Insulation
- Low-emissivity foil facing
- OSB Grade-3
- CE Marked
- All Sizes Available
- The Rooflight has a plasterboard termination trim to allow for seamless integration with building fabric.

Bespoke Glass Options

- Solar Control
- Privacy Glass
- Body Tinted
- Acoustic LAMINATE
- Coloured Glass
- Easy-Clean Coatings (Ritec)
- CU in 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 or in lightwell
- Paint or Sandblast borders
- Low Iron Glass
- Artwork MANIFESTATIONS
- COMPANY log and Artwork MANIFESTATIONS

British Standards Compliance

- BS 6375-1: 2015+A1:2016 Weathertightness
- BS EN 1026:2016 Air PERMEABILITY
- BS EN 1027: 2016 Watertightness
- BSEN 12211: 2016 Wind Resistance
- BS EN 12206-1:2004: Polyester Powder Coating
- BS EN ISO 16396-1:2020 & S EN ISO 16396-2:2020 Polyamide (PA) Thermal Breaks
- BS EN 12020-1:2022 & BA EN 12020-2:2020 Extruded Aluminum Sections
- BS EN 14351-1: 2006 + A2: 2016 Window PERFORMANCE

- BR443: 2019 Conventions for U Value Calculations
- BS EN 314-2:1993 Plywood Performance & Bonding Quality (Class 2)
- BS EN 13986:2004+A1:2015 Wood-based Panels for use in construction
- BS EN 12667:2001 Thermal Conductivity
- BS EN ISO 29469:2022: Compressive Strength
- BS EN 12086:2013 Water Vapour Resistance
- BS 476-7:1997 Spread of Flame (Class 1)
- BS 6229:2003 Flat Roofs

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
- Multi-pane
- Walk-on
- Square
- Rectangular
- Circular
- Elliptical
- Triangular
- Hexagonal
- Pentagonal
- Octagonal
- Totally bespoke shapes
- Wall ABUTMENT to up to three sides
- Flatglass Protect+ Doc Q COMPLIANT

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

