



SPECIFICATION PACK - Walk-On Rooflights

1. Product Overview

Walk-On Rooflights by Structural Glass Design are bespoke, load-bearing glass rooflights engineered for safe pedestrian access while maximising natural light below. Each unit is manufactured in the UK to precise project specifications and fully tested for structural performance and weatherproofing.

Applications:

- Flat roof terraces
- Balconies and podiums
- Courtyards and basements
- Viewing panels / Platforms

Design principle: To combine structural integrity, optical clarity, and weather-tight performance — without compromising architectural elegance.

We manufacture and install the largest one piece panels in the UK.

2. Technical Specifications

Property	Typical Value / Description
Glass Type	Toughened and laminated safety glass
Overall Thickness	78 mm Standard (project specific)
Configuration	Triple glazed unit: • 34mm Multi-layer laminated assembly with interlayers (SentryGlas® or PVB) • 16mm Argos gas filled cavities • 6mm toughened low-E (Middle & Inner layers)
Load Rating (Uniform)	3.5 – 5.0 kN/m ² (depending on span and support)
Load Rating (Concentrated)	Up to 2.5 kN
Slip Resistance	Anti-slip glass pattern or Sandblasted top layer *Clear glass (no anti-slip) achieves PTV 54 (Dry) + PTV 7 (Wet)
Edge Detail	Frameless, silicone-sealed
Frame options	Thermally broken aluminium frame (powder coated) or Stainless steel frame
Thermal Performance (G-value)	0.5 (depending on assembly)
Waterproofing	Fully sealed perimeter system
Glass Options	Clear, low-iron, privacy, solar control or tinted finishes

All performance data subject to engineering verification for each project.

Glass Make-up:

	Double Glazed	Triple Glazed
Overall thickness	56 mm	78 mm
U-value	1.1 W/m ² K	0.9 W/m ² K

3. Structural & Design Notes

- Structural calculations provided on request
- Edge support and deflection criteria determined per project

4. Weatherproofing & Drainage

- Fully sealed with structural silicone or thermally broken aluminium perimeter frame
- Factory-assembled and quality checked prior to delivery

5. Installation & Maintenance

- Installed flush with roof or finished floor level for seamless finish
- Compatible with timber, steel, or concrete support structures (weatherproofed)
- When cleaning, avoid abrasive tools & chemicals

6. Warranty

- Standard structural warranty: 10 years on glass and frame integrity
- Sealant and anti-slip finishes: 2–5 years depending on usage
- Laminate seal: 20 years
- Warranty is contingent on proper installation, use, and maintenance in accordance with this manual

7. Optional Features

- Heated glass for condensation control
- Privacy interlayer or switchable glass
- Integrated LED edge lighting
- Bespoke shapes and load ratings

8. Contact & Specification Support

Structural Glass Design Ltd

United Kingdom

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Email: enquiries@structural-glass.com

Website: <https://structural-glass.com>

9. How to Specify (Sample Clause)

Product: Walk-On Rooflight – Structural Glass Design Ltd

Type: Bespoke, laminated walk-on glass rooflight with anti-slip finish

Dimensions: As per architectural drawings

Performance:

- Uniform load capacity: minimum 2.5 kN/m²
- Concentrated load: minimum 2.0 kN
- U-value: ≤ 0.9 W/m²K

Accessories: Frame, drainage, and fixing system as required

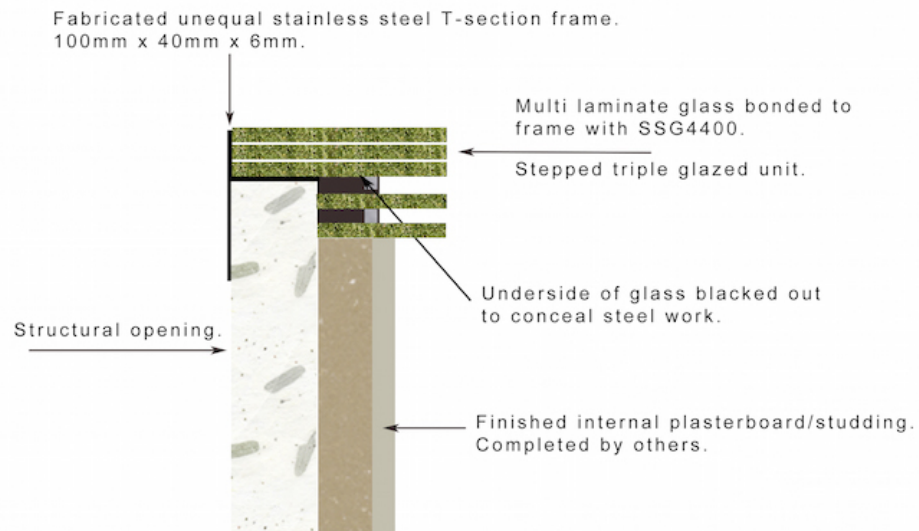
Installation: To manufacturer's recommendations

10. Appendix

- Typical section details & weatherproofing details
- Maintenance guide

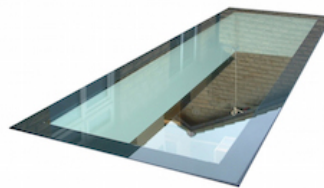
Typical Section Detail

Structural Walk on Glass Floor / Rooflight [WOR1001E] Typical fixing detail.



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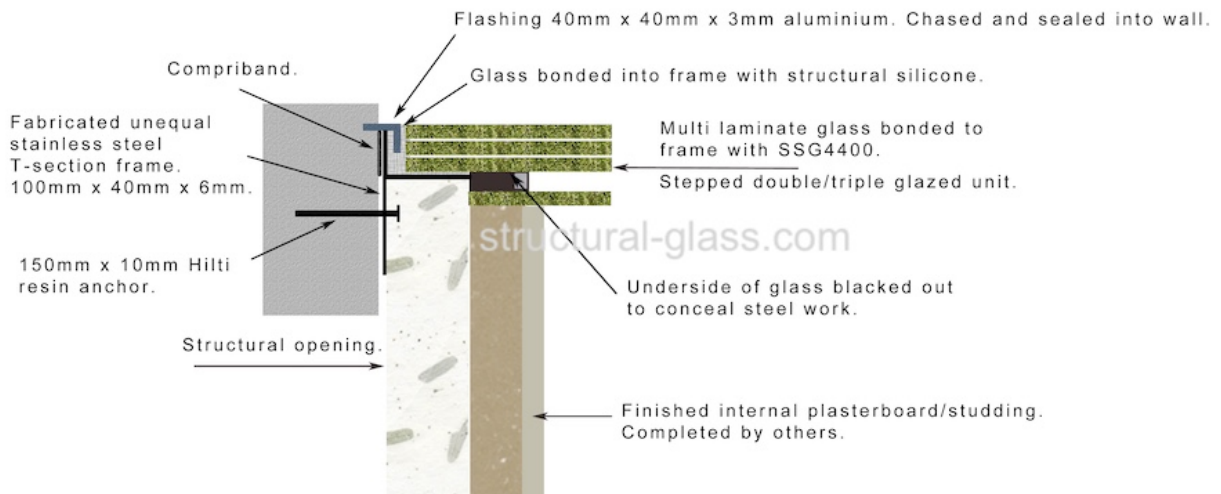
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Typical Weatherproofing Details

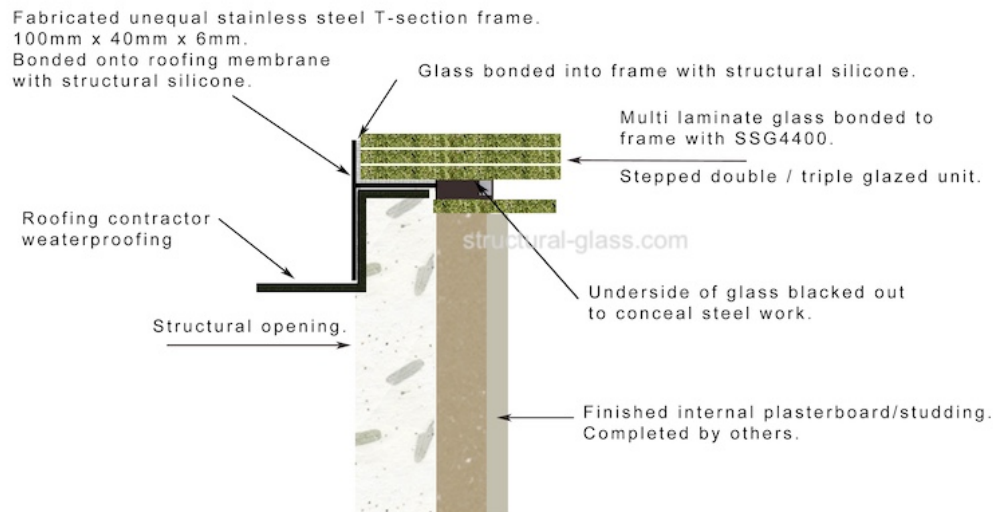
Structural Walk on Glass Floor / Rooflight [WOR1002E] Typical fixing detail when abutted upto wall.

For concrete / kerb upstand.



Structural Walk on Glass Floor / Rooflight [WOR1003E] Typical fixing detail.

Weatherproofing for structural upstand/kerb.

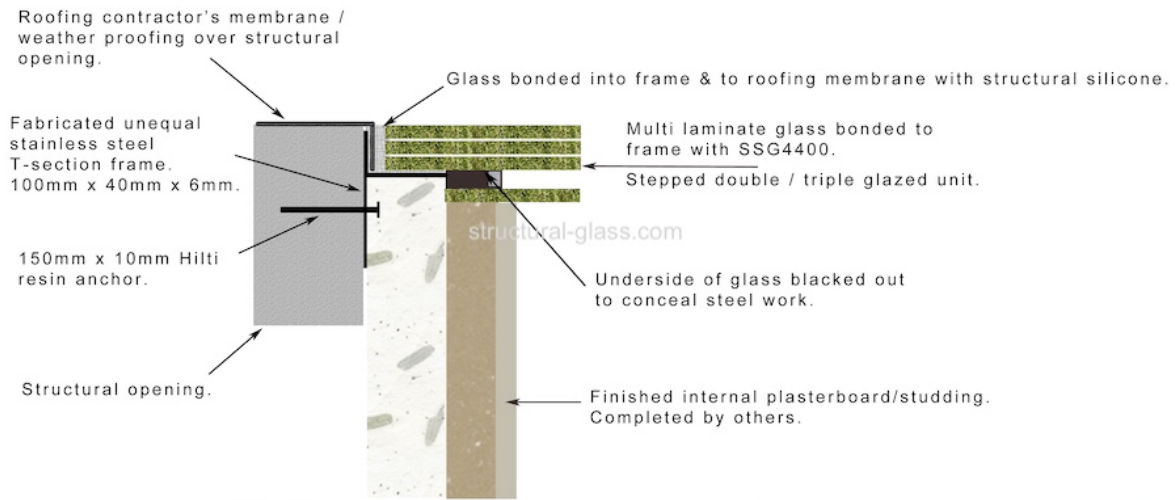


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Structural Walk on Glass Floor / Rooflight [WOR1004E] Typical fixing weatherproofing detail to structural opening.



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OPERATION & MAINTENANCE GUIDE - Walk on Rooflights

GENERAL MAINTENANCE & SAFETY

To ensure the walk on glass unit remains in good working order; there are a few basic points that should be observed.

Take care when walking over the unit especially in wet conditions. Glass can become extremely slippery even with an anti-slip surface finish.

CLEANING & MAINTENANCE

Cleaning Frequency:

- Exterior: every 3–6 months (or as required depending on environment)
- Interior: as needed

Cleaning Instructions:

- Use soft, non-abrasive cloths or squeegees
- Mild detergent or neutral pH cleaner in water recommended
- Rinse thoroughly with clean water and dry with soft cloth
- Avoid abrasive cleaners, acidic solutions, or metal scrapers

Maintenance Tips:

- Check anti-slip coatings for wear; replace or refurbish if surface becomes smooth
- Inspect perimeter sealants and re-apply silicone if gaps appear

REPAIRS & REPLACEMENTS

Minor Repairs:

- Surface scratches or chips: consult Structural Glass Design for advice
- Sealant touch-ups: use manufacturer-recommended silicone sealant

Major Repairs

- Only original Structural Glass Design components should be used
- Cracked, delaminated, or structurally compromised panels must be replaced
- Replacement installation must follow original structural specifications

BREAKAGE INSTRUCTIONS

Should the glazed unit break for any reason, a new unit would need to be supplied. Glass breakage is not covered in the product warranty unless breakage is a direct result of Structural Glass Design Ltd. In the event of the glass being damaged please contact Structural Glass Design Ltd to order a replacement.

Contact us: enquiries@structural-glass.com
Tel: 0333 577 7177

STRUCTURAL GLASS DESIGN'S LOCATIONS

We're proud to serve clients **UK-wide** and internationally. Our key office locations:

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