



Technical Data Sheet

GLAZING VISION

Flat Skylight

FSG-TDS-v3.4-31.08.2018

Name:	GV Standard Flat Skylight
Code:	601
Type:	Sliding rooflight
Description:	Single section of glazing sliding on telescopic cantilever rails to offer 100% clear opening.

Features:

No visible kerb fixings through the use of extruded external clip on cover.

Excellent overall thermal performance from polyester powder coated aluminium extrusions integrated with 39mm polyamide thermal breaks, concealed closed cell PIR insulation and options for double or triple glazing as standard. Excellent air tightness achieved with three stage sliding seal system.

Structural integrity assured through the use of finite element analysis (FEA) and testing.

Advanced electronic control system installed within an IP rated enclosure offering low opening power requirements and a dedicated building management system (BMS) input.

Reliable operation through concealed drive mechanism with one way clutch (patent applied for) and solenoid security feature as standard. Drive mechanism powered by two 12V batteries (24V) ensuring that the rooflight can be closed in the event of mains power failure. Batteries are trickle charged by the control board. The control board requires a permanent connection to a 240V mains supply to ensure the batteries remain charged. In the event of prolonged loss of mains power leading to flat batteries the unit can be manually closed and internal mechanical override can be used to open the unit.

Telescopic cantilever rails offer minimal kerb structure for installation / operation.

Kerb Dimensions:	Min Kerb Thickness:	See 601-ASS-402	Min Kerb Height:	150mm
	Min Span:	900mm	Max Span:	2000mm
	Min Width:	570mm	Max Width:	1520mm
	Min Pitch:	3°	Max Pitch:	5°

Maximum Span and Width is determined by the opposing dimension - check with manufacturer prior to specification that your dimensions are acceptable.



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Flat Skyglide

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Example Glass Specification:	Double glazed Outer: 6mm HST Clear soft low E toughened. Spacer: 14mm Black warm edge silicone-sealed argon-filled cavity. Inner: 8.8mm Heat strengthened PVB laminated.
U-values:	Example 2000mm Width x 1000mm Span x external kerb dimensions with example glass spec: Double glazed $U_g = 1.1 \text{ W/m}^2\text{K}$ $U_w = 1.8 \text{ W/m}^2\text{K}$ $U_d = 1.3 \text{ W/m}^2\text{K}$
Standard Colour:	Qualicoat approved RAL 7015 slate grey outer, RAL9010 pure white inner (base interior)
Rooflight Control:	Glazing Vision's 'OR' Control Board and magnetic limit switches.
Power Supply:	24V Battery operated, 240V mains supply required for trickle charging batteries via control board.
Drive Mechanism:	Twin drive rack and pinion with solenoid security one way clutch (patent applied for) as standard.
Thermally Broken:	39mm Polyamide thermal breaks on base, 30mm on lid. Concealed closed-cell PIR insulation.
Seals:	Glazing Vision silicone based sliding seal.
Security:	Built in anti-lifting mechanism to prevent disengagement of drive mechanism via vertical movement of sliding frame.
Use for Access:	Not recommended without additional balustrade around rooflight (by others).



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CAD Drawings:

Drawing Number

Description

602-ASS-401	Product overview
602-ASS-402	Kerb detail
602-ASS-403	Section through span
602-ASS-404	Section through width
602-ASS-405	Section detail
602-ASS-406	Rain sensor and external keypad positions
602-ASS-407	Client wiring diagram
602-ASS-408	Section A-A (Across the fall triple glaze)
602-ASS-409	Section B-B (Along the fall triple glaze)
602-ASS-410	Detail C (Section along the fall triple glaze)

Optional Extras:

Remote Control:	Yes	RITEC Coating:	Yes
Rain Sensor:	Yes	Dual Colour:	As standard
Solenoid Bolt:	As standard	Special Colour:	Yes
Thermostat:	Yes	Proximity Detection:	Yes
BMS Integration:	Yes	Downlighter:	No
Trickle Vents:	N/A	Multi-Part:	N/A
Wall Abutted:	No	External Key Switch:	Yes
Rain Sensor Overrides:		External Keypad:	Yes
Internal isolator switch:	Yes		
External isolator key switch:	Yes		
Timed secure open button:	Yes		

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