



# Technical Data Sheet

# GLAZING

# VISION

**Skyhatch Electric**

SHE-TDS-v1.7-24.09.2018

Name: GV Standard Skyhatch Electric

Code: 407

Type: Hinged access and/or ventilation rooflight

Description: Electrically-actuated thermally-broken hinged rooflight.

BIM: <https://www.nationalbimlibrary.com/glazing-vision-ltd/skyhatch-electric-rooflight>

#### Features:

Excellent overall thermal performance with concealed insulation. Kerb fixings are hidden through the use of extruded external clip-on cover. Reliable operation through synchronised mechanisms employing encoder feedback. The dual-lift mechanism provides stability in the open position. It offers good security and unobstructed clear views. Advanced electronics control system offering low opening currents. Dedicated building management system (BMS) input.

The primary function of the Skyhatch is to provide access, opening to a maximum angle of approximately 80°. It can also be used for ventilation opening to any angle the user requires. It is controlled by GV's wall-mounted LED control switch, responding to both one-touch and press-and-hold requests.

The Skyhatch electric is powered by an external 24V power supply as standard. Glazing Vision will provide one power supply for each Skyhatch Electric purchased. In the event of mains failure the Skyhatch will cease to function. A battery-backed supply is available as an optional extra.

The Skyhatch mechanisms have an encoder output used by the control electronics to achieve closed-loop synchronisation.

|                         |                     |       |                  |        |
|-------------------------|---------------------|-------|------------------|--------|
| Kerb Dimensions (solo): | Min Kerb Thickness: | 100mm | Min Kerb Height: | 150mm  |
|                         | Min Span:           | 800mm | Max Span:        | 1500mm |
|                         | Min Width:          | 800mm | Max Width:       | 2000mm |
|                         | Min Pitch:          | 3°    | Max Pitch:       | 10°    |

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

Example Glass Specification: Double glazed

Outer: 6mm HST Clear toughened.

Spacer: 20mm Black warm edge silicone-sealed argon-filled cavity.

Inner: 8.8mm Clear soft low E laminated.

OTHER GLASS SPECIFICATIONS ARE AVAILABLE



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|                    |  |
|--------------------|--|
| Standard Colour:   | Qualicoat approved RAL 7015 slate grey outer, RAL9010 pure white inner (base interior)   |
| Rooflight Control: | Intelligent wall switch as standard. Optional controls available.  |
| Power Supply:      | External 24V 300W mains powered supply.  |
| Drive Mechanism:   | Motor-driven scissor linkage mechanism with encoder feedback.  |
| Thermally Broken:  | Yes  |
| Seals:             | Combination of silicone, TPE bubble seals and dual-hardness EPDM gasket.   |
| Security:          | Mechanisms cannot be back-driven due to motor gearing reduction and mechanisms cannot be disconnected from lid from outside whilst closed. Rooflight base is sealed to upstand with polybutyl sealant and mechanically fixed to the kerb using stainless steel woodscrews. |

| CAD Drawings: | Drawing Number | Description                                    |
|---------------|----------------|--|
|               | 407-ASS-001    | Skyhatch electric general arrangement details  |
|               | 407-ASS-002    | Skyhatch electric kerb detail                  |
|               | 407-ASS-003    | Skyhatch electric section A-A                  |
|               | 407-ASS-004    | Skyhatch electric section B-B                  |
|               | 407-ASS-005    | Skyhatch electric detail C                     |
|               | 407-ASS-006    | Skyhatch electric client wiring diagram        |
|               | 407-ASS-007    | Skyhatch electric rain sensor positioning      |
|               | 407-ASS-012    | Skyhatch thermostat wiring diagram             |
|               | 407-ASS-013    | Secondary control switch or BMS wiring diagram |
|               | 407-ASS-014    | Skyhatch access keypad wiring diagram          |

|                  |                  |               |                              |     |
|------------------|------------------|---------------|------------------------------|-----|
| Optional Extras: | Remote Control:  | Yes           | RITEC Coating:               | Yes |
|                  | Rain Sensor:     | Yes           | Dual Colour:                 | Yes |
|                  | Solenoid Bolt:   | NA            | Special Colour:              | Yes |
|                  | Thermostat:      | Yes           | Security System Integration: | No  |
|                  | BMS Integration: | No            | Downlighter:                 | NA  |
|                  | Trickle Vents:   | NA            | Multi-Part:                  | No  |
|                  | Wall Abutted:    | Yes (bespoke) | External mounted Key Switch: | NA  |

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