

VELUX VCS Low Pitch solar opening skylight

Product Technical Statement: 110527



Low Pitch solar opening skylight

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



VELUX confirms that this minimum level of assurance has been met or exceeded by the following:

CodeMark

[1008](#)

BRANZ Appraisal

[968](#)

Ian Bennie and Associates Pty. Ltd

[NATA Registered Laboratory 2371 - 2017-016-S1&S8](#)

masterspec partner

Company Contact Details



Skylights

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Technical Statement

Product Description

VCS low pitch solar powered opening skylights are available in 7 sizes. Suitable for installation within the range from 0° to 60° the VCS skylight is top hinged and consists of the following integrated components – an interior condensation drainage gasket, an insulating glass unit, an interior PVC white maintenance- free frame and sash, exterior structurally glazed, roll-formed aluminum sash and frame counter flashing with ASA corner keys. Insulating glass unit constructed of stainless steel spacer with "warm edge" technology with glazing of internal laminated glass, Argon gas filled cavity, low E3 coating applied to underside of external toughened glass. NEAT outer coating applied to outer face of external toughened glass pane, to reduce cleaning frequency. Fitted with proprietary VELUX motor, comes with external mounted solar panel with integrated rain sensor and wall mounted, battery operated keypad

Scope of use

Can be used in all roofs from 0-60 degrees, in conjunction with custom made flashing by third party contractor.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1, B2.3.2
Product is CodeMark certified. (BRANZ CM-1008)
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2
Product is CodeMark certified. (BRANZ CM-1008)
- **Clause F2 Hazardous building materials:** Performance F2.3.2, F2.3.3
Product is CodeMark certified. (BRANZ CM-1008)
- **Clause G4 Ventilation:** Performance G4.3.1, G4.3.3
Product is CodeMark certified. (BRANZ CM-1008)
- **Clause G7 Natural light:** Performance G7.3.1, G7.3.2
Product is CodeMark certified. (BRANZ CM-1008)
- **Clause H1 Energy efficiency :** Performance H1.3.1, H1.3.2E
Product is CodeMark certified. (BRANZ CM-1008)

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

B2/AS1 Durability - AS 4285 - VELUX Skylights satisfy the durability requirements specified for Non-structural Roof Cladding elements and External Window/Door Joinery.

C3 Protection from Fire - AS 1530 - VELUX Skylights have been classified as "non-combustible" according to AS 1530 test methods.

E2 External Moisture - AS 4285 - VELUX Skylights have passed tests for weather tightness, concentrated load, non-cyclonic and cyclonic wind pressures according to Australian Skylight Standard AS4285 test methods.

F2 Hazardous Building Materials - NZS 4233: Part 4, AS/NZS 4666 - VELUX Skylights comply with requirements for sloped Insulating Glass Units. G4/AS1 Natural Ventilation (1.2, 2.1) - VELUX Opening Skylights can be used to meet the

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G4 Natural Ventilation requirements.

G7 Natural Light - VELUX Skylights can be used to meet the G7 Natural Light requirements.

H1 Energy Efficiency - NZS 4218 - VELUX Skylights exceed the minimum R-value requirements for skylights in all climate zones.

Evidence: 30+ years of historical use in New Zealand

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



CodeMark
[1008](#)



BRANZ Appraisal
[968](#)

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Product Criteria

Design requirements

VCS skylights are modular fixed, solar power opening skylights intended for roof pitches between 0 and 60 degrees. They are available in standard sizes only. The IGU glazing unit has argon gas fill and Low E3 applied to the inside surface of the outer pane. The IGU unit meets the requirements of NZBC F2. VCS skylights have been tested for impact but are not intended to be part of a trafficable roof surface. VCS skylights do not have a fire rating.

Installation requirements

Install FCM skylight in accordance with manufacturer's installation instructions, supplied with FCM, and with local building code requirements. Align skylight with curb, free of warp or twist, maintaining dimensional tolerances. Attach skylight to curb with screws furnished by manufacturer. Coordinate attachment and seal of perimeter air and vapor barrier material. Provide insulation of the curb for maximum energy efficiency. Install site made flashing in accordance with the latest version of the New Zealand Roofing Code of Practice to achieve weather-tight installation.

Maintenance requirements

For maintenance requirements refer to <http://https://www.velux.co.nz/service-and-warranty/maintenance>. Exterior surfaces must be cleaned with clean water at least once a year, subject to the environmental conditions present.

Warrantees

For warrantees refer to <http://https://www.velux.co.nz/service-and-warranty/maintenance>.

Company Product Information

Environmental

<https://www.velux.co.nz/our-company/lifetime-carbon-neutral>



Date last validated: 27 October 2023



Date last updated: 27 October 2023

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