

VELUX VSS Solar-powered opening skylight

Product Technical Statement: 110528



Solar-powered 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

VSS solar powered opening skylights are available in 8 sizes. Suitable for installation within the range from 15° to 90°. VSS skylight is top hinged and consists of the following integrated components – an interior condensation drainage gasket, pre-finished white wooden frame and sash, for all sizes fitted with proprietary VELUX motor, exterior maintenance-free aluminium cladding/counter flashing, ASA corner keys, and an insulating thermal pane. Insulating glass unit constructed of a stainless steel spacer with "warm edge" technology, with glazing of internal laminated glass, Argon filled cavity, low E3 coating applied to underside of external toughened glass pane. Fitted with proprietary VELUX motor, comes with external mounted solar panel with integrated rain sensor and wall mounted, battery operated keypad.

Scope of use

Suitable for all roofs with a pitch between 15-90 degrees, used in conjunction with VELUX proprietary flashings or custom-made flashings in accordance with the latest version of the New Zealand Roofing Code of practice.

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 F2.3.1
Product is CodeMark certified. (BRANZ CM-1008)
- **Clause G4 Ventilation:** Performance G4.3.1
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)

Notes

Complies to AS/NZS 2208 Safety glazing materials in buildings - glass is stamped with compliance to the Standard and labelling on the skylight frame.

Complies to NZS 4223.4 Code of practice for glazing in buildings - Wind, dead, snow and live actions. Tested in an independent facility overseas.

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.

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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 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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Use in Service History

40+ years in New Zealand

Product Criteria

Design requirements

VSS skylights are modular solar powered venting skylight intended for roof pitches between 15 and 90 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.

VSS skylights are fitted with insect screen

VSS skylights have been tested for impact but are not intended to be part of a trafficable roof surface.

VSS skylights do not have a fire rating.

Installation requirements

Install VSS solar powered skylight in accordance with instructions supplied with VSS solar powered skylight and local building code requirements. [454443-2019-01 VS AUS KOR.indd \(azureedge.net\)](#)
Align skylight with the trim opening, free of warp or twist, maintaining dimensional tolerances. Attach skylight to the trim-out frame with screws furnished by manufacturer. Coordinate attachment and seal of perimeter air and vapor barrier material. Weathertightness to be achieved by using either VELUX proprietary flashings installed in accordance with supplied installation instructions, or custom-made flashings made in accordance with the latest version of NZ Roofing Code of Practice.

When roof pitch exceeds 30 degrees the solar panel must be fitted at the head of the skylight.
(Extension cable is included in skylight box)

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>.



Date last validated: **03 November 2023**



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