



CODEMARK®

Certificate No: CMNZ 1008

Revision 1, issued 17 October 2022

Original Issue Date: 15 May 2020

CERTIFICATE HOLDER

VELUX®

Velux New Zealand Limited

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Dean Pocock

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Velux New Zealand Limited

CERTIFICATION BODY



BRANZ

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Chelydra Percy

Chief Executive Officer

BRANZ Limited

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PRODUCT CERTIFICATE

THIS IS TO CERTIFY VELUX SKYLIGHTS

KEY INFORMATION

1. DESCRIPTION OF PRODUCT

Velux Skylights are double glazed skylights with wooden frames and an aluminium exterior. Velux Skylights [FS, VS, VSE and VSS series] and Velux Low-Pitch Skylights [FCM, VCM, VCS series] can be identified by their brand markings on both the units themselves and the packaging.

2. USE OF PRODUCT

Velux Skylights [FS, VS, VSE and VSS series] are for use on roofs of buildings to provide natural light into spaces in buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with respect to building height and maximum floor plan area; and,
- with roof structures designed and constructed to meet the requirements of the NZBC; and,
- with masonry tile, pressed metal tile, and profiled metal roof cladding systems complying with NZBC Acceptable Solution E2/AS1; and,
- with a roof pitch between 15° and 60°; and,
- situated in NZS 3604 Wind Zones, up to and including, Extra High; and,
- on buildings designed for up to a 1 kPa snow loading.

Velux Low-Pitch Skylights [FCM, VCM and VCS series] are for use on roofs of buildings to provide natural light into spaces in buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with respect to building height and maximum floor plan area; and,
- with roof structures designed and constructed to meet the requirements of the NZBC; and,
- with pitched roof cladding types and profiles and minimum pitches as specified in NZBC Acceptable Solution E2/AS1; or,
- for use on membrane roof systems with a roof pitch greater than 2°; and,
- situated in NZS 3604 Wind Zones, up to and including, Extra High; and,
- on buildings designed for up to a 1 kPa snow loading.

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building [Product Certification] Regulations 2008.

This Certificate is issued by BRANZ Limited, an independent certification body accredited by the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. MBIE disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the building method(s) or products(s) referred to in this certificate.

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3. COMPLIES WITH THE FOLLOWING PROVISIONS OF THE NEW ZEALAND BUILDING CODE (NZBC)

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.3 (g), (h) and (j) [loads arising from snow, wind and impact].

Clause B2 DURABILITY: Performance B2.3.1 (b) [15 years].

Clause E2 EXTERNAL MOISTURE: Performance E2.3.1 and E2.3.2.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. and F2.3.3 (a).

Clause G4 VENTILATION: Performance G4.3.1 and G4.3.3. Velux Skylights contribute to meeting these requirements.

Clause G7 NATURAL LIGHT: Performance G7.3.1 and G7.3.2. Velux Skylights contribute to meeting these requirements.

Clause G9 ELECTRICITY: Performance G9.3.1.

Clause H1 ENERGY EFFICIENCY: Performance H1.3.1 and H1.3.2E. Velux Skylights contribute to meeting these requirements.

4. CONDITIONS AND LIMITATIONS OF USE

- Velux Skylights must be installed in accordance with the Technical Literature supplied by Velux New Zealand Limited.
- The installation of Velux Skylights must be completed by installers trained by Velux New Zealand Limited or by competent, experienced tradespersons with an understanding of roof window installation and weathertightness details.
- The roof structure must be checked by a suitably qualified person for structural adequacy and suitability of the existing roof cladding prior to installation.

5. HEALTH AND SAFETY INFORMATION

Velux Skylights are glazed with glass. Manufacturer's instructions and typical practices for working with, handling and maintaining glazing should be observed.

6. REFERENCE DOCUMENTS

This Product Certificate must be read in conjunction with:

- Technical Manual - Velux Skylights and Roof Windows - New Zealand - Product: Skylights - April 2020.

SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

7. SUPPORTING INFORMATION ABOUT DESCRIPTION OF THE PRODUCT

PRODUCT SPECIFICATION

Velux Skylights [FS, VS, VSE and VSS series] are a range of fixed and opening skylights which are manufactured from preservative treated softwood frames and sashes, finished on the interior faces with a white semi-gloss paint. External cappings are 'grey friars' coloured PVDF lacquered aluminium.

Velux Low-Pitch Skylights [FCM, VCM and VCS series] are a range of fixed and opening low-pitch skylights which are finished on the interior faces with a white semi-gloss paint. The FCM Low-Pitch Skylight has a PVDF lacquered aluminium frame to the perimeter of the insulated glazing unit and an integral rubber gasket to seal the unit to the curb. The VCM and VCS Low-Pitch Skylights have aluminium frames and sashes with white PVC interior frames. External cappings for Velux Low-Pitch Skylights are aluminium. All aluminium components of Velux Low-Pitched Skylights are pre-finished with a 'grey friars' coloured PVDF lacquer. Velux Low-Pitch Skylights are primarily suited to commercial building applications and use with roof membranes and wide-profile metal roofing. Flashings and roof detailing for Velux Low-Pitch Skylights must be specifically designed in all instances.

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building (Product Certification) Regulations 2008.



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The Velux Skylight models covered by this Product Certificate are:

- FS/VS/VSE/VSS: size code range [C01 - S06], dimension range [550 x 700 mm - 1,140 x 1,180 mm].
- FCM: size code range [1430 - 4646], dimension range [488 x 895 mm - 1,302 x 1,302 mm].
- VCM/VCS: size code range [2222 - 4646], dimension range [692 x 692 mm - 1,302 x 1,302 mm].

8. SUPPORTING INFORMATION ABOUT INTENDED USE OF PRODUCT

MAINTENANCE REQUIREMENTS

Maintenance of Velux Skylights shall be carried out in accordance with the relevant manufacturer's instructions and at prescribed intervals.

BUILDING CODE

B2 DURABILITY

On exposure to the weather, the coil coated aluminium may gradually lose the original surface finish. A faster reduction in both surface finish and overall serviceable life can be anticipated in severe industrial, geothermal and marine exposures.

F2 HAZARDOUS BUILDING MATERIALS

Velux Skylights meet the safety glass requirements of NZS 4223.4 for sloped glazing up to an installed height above floor level of not more than 5 m. Where the installed height is more than 5 m, only Velux Skylights marked with '04' type glazing may be used. Refer to Paragraphs 4.3 to 4.5 of BRANZ Appraisal No. 968. Refer to Velux New Zealand Limited for advice or confirmation of type.

H1 ENERGY EFFICIENCY

Velux Schedule Method

The Velux Schedule Method may be used as an alternative solution to the Schedule Method contained in NZBC Acceptable Solution H1/AS1 for housing, and other buildings up to 300 m² in floor area. The Velux Schedule Method requires that:

- the sum of the vertical glazing area and the Velux product area [Velux skylights, roof windows and sun tunnels] is 30% or less of the total wall area; and,
- the combined glazing area on the east, south, and west facing walls is 30% or less of the combined total area of these walls; and,
- the Velux product area is no more than 1.5 m² or 1.5% of the total roof area [whichever is greater]; and,
- the opaque door area is no more than 6 m² or 6% of the total wall area [whichever is greater]; and,
- the roof, wall, floor, window and door glazing R-values are in accordance with Section 2.1.2 of NZBC Acceptable Solution H1/AS1.

Calculation and Modelling Methods

Alternatively, designers can use the calculation methods contained in NZBC Acceptable Solutions H1/AS1 or H1/AS2, or the modelling methods contained in NZBC Verification Methods H1/VM1 or H1/VM2. Contact Velux New Zealand Limited for the relevant product R-values.

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9. SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

All conditions and limitations provided as stated in this Product Certificate.

10. BASIS FOR CODEMARK CERTIFICATION

The following evaluations have been carried out on Velux Skylights to determine compliance with the NZBC:

- Velux Skylights have been assessed for resistance to impact loads, snow loads and resistance to wind pressures [non-cyclonic regions]. These assessments have been reviewed by BRANZ and were found to be satisfactory.
- Velux Roof Windows have been subjected to dynamic weather resistance testing by a National Association of Testing Authorities [NATA] registered laboratory in Australia. Velux Skylights have also been subjected to dynamic weather resistance testing by BRANZ.
- Weathertightness detailing of the Velux Skylights has been assessed by BRANZ and found to be satisfactory. Instructions for installation of the units and associated flashing components for different roof types have also been reviewed and found to be satisfactory.
- BRANZ Expert Judgement [Materials Scientist] confirmation of compliance to the NZBC Clause B2 Durability Performance Requirements.
- BRANZ Expert Judgement [Materials Scientist] confirmation of thermal performance.
- The practicability of installation of Velux Skylights has been assessed by BRANZ and found to be satisfactory.
- The referenced Technical Literature has been examined by BRANZ and found to be satisfactory.

11. DOCUMENTATION SUPPORTING CERTIFICATION

- ANSI Z97.1:2015 For safety glazing materials used in buildings - Safety performance specifications and methods of test.
- AS 4285:1995 Skylights.
- BRANZ Appraisal No. 968 Velux Skylights.
- NZS 3604:2011 Timber-framed buildings.
- NZS 4223.4:2016 Code of practice for glazing in buildings - Dead, wind and snow loading.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.

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12. CONDITIONS RELATING TO NOTIFICATION

The Certificate Holder [Velux New Zealand Limited] must notify the Product Certification Body [BRANZ] in writing, of any intended change to any of the following particulars:

- The name, address, or contact details of the Certificate Holder
- Any address of a location where a certified product is produced or manufactured.

The Certificate Holder shall notify the Product Certification Body in writing of any intended change, modification, or alteration to any of the following:

- The certified building method or product
- The method of its production or manufacture
- The Product Quality Plan prepared in respect of the certified building method or product
- The application or installation instructions for the certified building method or product
- Any documentation relating to the use and maintenance of the certified building method or product.

If the Certificate Holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the Certificate Holder shall notify the Product Certification Body in writing of the reason for that suspicion.

If the Certificate Holder or the Product Certification Body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the Certificate Holder shall disclose that fact in a published disclosure statement in a form that is acceptable to the Product Certification Body and to MBIE.

If the Certificate is suspended or revoked, the Certificate Holder:

- Shall notify all customers to whom the building method or product is regularly supplied; and,
- Immediately cease using the Certificate, the mark of conformity, and any reference to the number of this Certificate.

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