



CODEMARK®

Certificate No: CMNZ 1009

Revision 1, issued 17 October 2022

Original Issue Date: 15 May 2020

CERTIFICATE HOLDER

VELUX®

Velux New Zealand Limited

62b Princes Street

Onehunga

Auckland, 1061

Tel.: 0800 650 445

Email: info@velux.co.nz

Web: www.velux.co.nz

Dean Pocock

Logistics Manager

Velux New Zealand Limited

CERTIFICATION BODY



BRANZ

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1222 Moonshine Rd,

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Chelydra Percy

Chief Executive Officer

BRANZ Limited

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www.jas-anz.org/register

PRODUCT CERTIFICATE

THIS IS TO CERTIFY VELUX ROOF WINDOWS

KEY INFORMATION

1. DESCRIPTION OF PRODUCT

Velux Roof Windows are double glazed and feature wooden frames with an aluminium exterior. Velux Roof Windows can be identified by their brand markings on both the units themselves and the packaging.

2. USE OF PRODUCT

Velux Roof Windows 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.

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 Roof Windows will contribute to meeting these requirements.

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

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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Chief Executive Officer
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4. CONDITIONS AND LIMITATIONS OF USE

- Velux Roof Windows must be installed in accordance with the Technical Literature supplied by Velux New Zealand Limited.
- The installation of Velux Roof Windows 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 Roof Windows 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: Roof Windows - April 2020.

SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

7. SUPPORTING INFORMATION ABOUT DESCRIPTION OF THE PRODUCT

PRODUCT SPECIFICATION

Velux Roof Windows are centre-pivot roof windows. The interior faces are made of 3 mm polyurethane moulded around a core of plywood or timber with a finish of white lacquer. The external cappings are 'grey friars' coloured PVDF lacquered aluminium.

The Velux Roof Window models covered by this Product Certificate are:

- Roof Window - Everfinish GGU: size code range [CK02 - SK08], dimension range [550 x 780 mm - 1,140 x 1,400 mm].

Velux Roof Windows are factory glazed using sealed double glazed insulated glazing units [IGU's]. The IGU's for all units are provided in one type - signified by the number '76' contained within the product code on the packaging and on the IGU itself and on the spacer bar between the glazing panes. Refer to Velux New Zealand Limited for advice or confirmation of glazing if necessary.

- Type 76 units comprise a 4 mm thick toughened outer pane with a low emissivity [Low-E] coating, an 14 mm argon-filled cavity and a 6 mm thick inner pane of laminated toughened glass.
- Glazing units carry CE marking to show compliance with BS EN 1279-5.
- EDW, EDL and EKW Flashings are a range of Kynar 500 painted aluminium flashings designed for use with Velux Roof Windows.

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Chief Executive Officer

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8. SUPPORTING INFORMATION ABOUT INTENDED USE OF PRODUCT

MAINTENANCE REQUIREMENTS

Maintenance of Velux Roof Windows 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 Roof Windows 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 Roof Windows marked with '76' type glazing may be used. Refer to Paragraph 4.4 of BRANZ Appraisal No. 969. Refer to Velux New Zealand Limited or 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.

9. SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

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

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10. BASIS FOR CODEMARK CERTIFICATION

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

- Velux Roof Windows 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.
- Weathertightness detailing of the Velux Roof Windows has been assessed by BRANZ and found to be satisfactory. Instructions for installation of 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 Roof Windows 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. 969 Velux Roof Windows.
- 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.

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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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