CodeMark

Certificate no: CMNZ70121
Version: 1
Original issue date: 4 April 2022
Version date: 22 December 2023

Product Certificate

Greenz Aluminium Windows and Doors

1. Certificate Holder Details

Greenz Building Supplies Ltd
298 Unit 8 Neilson Street
Onehunga, Auckland 1061 New Zealand
hello@greenzgroup.co.nz
Ph: 096220335
www.greenzgroup.co.nz

2. Product Certification Body

Bureau Veritas Australia Pty Ltd
11/500 Collins Street
Melbourne VIC 3000 Australia
product.certification@bureauveritas.com
Ph: 1800 855 190
www.bureauveritas.com.au

Complaints: The complaints process for this certificate can be found here:
www.bureauveritas.com.au/your-feedback

Sam Guindi – Bureau Veritas Product Certification Manager

3. Description of Building Method or Product

Name of the product or method in Aotearoa New Zealand, including any brand names used. Description of what it is and the components that make up any system and its physical attributes including the materials and make-up of the product, where applicable. Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use. Continuation of description can be found in item 10 – Supporting Information about Description. [Delete if not applicable]. The building method's or building product's catalogue or model identification number or numbers or other unique identifiers that might be used to identify the building product or building method

Greenz Aluminium Windows & Doors are powder-coated, aluminium windows and doors. The aluminium joinery is available in standard sizes, configurations and colours. The units are fitted with double glazing comprising of Low-E toughened safety glass on both sides and filled between glazed layers with Argon gas.

4. Intended use of Building Method or Product

Intended use of the building method or product as described in the product manual and other instructional materials. A statement of the function or purpose of the building method or product. Continuation of intended use can be found in item 11 – Supporting Information about Intended use. [Delete if not applicable]

Greenz Aluminium Windows and Doors are intended for use in the buildings specified under "Conditions and Limitations".

5. New Zealand Building Code Provisions

The performance clauses of the New Zealand Building Code that are relevant to the intended use and with which the building method or product complies or contributes to (where used as part of a system).

How the building method or product complies or contributes can be found in item 8. Basis for Certification. Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.

Clause B1 Structure: B1.3.1, B1.3.2, B1.3.3(a, , h, j), B1.3.4
Clause B2 Durability: B2.3.1(b), B2.3.1(c) (for hardware)
Clause E2 External moisture: E2.3.2, E.2.3.7
Clause F2 Hazardous building materials: F2.3.1, F2.3.2, F2.3.3
Clause G4 Ventilation: G4.3.1 (contributes to), G4.3.3 (contributes to)
Clause G7 Natural light: G7.3.1 (contributes to) , G7.3.2 (contributes to)
Clause H1 Energy efficiency: H1.3.1 (contributes to), H1.3.2E (contributes to)

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6. Conditions and Limitations of Use

The building method or product's use is to be in accordance with the installation instructions and requirements against which the building method or product was assessed.

Conditions or limitations of conformity for the performance requirements the building method or product is compliant with, including any requirements for people with the qualifications and skills to install or use the building method or product, any known or demonstrated situations where the building method or product should not be used. A statement as to whether there are any matters that should be taken into account in the use or application of the building product or building method and, if so, what those matters are.

1. Greenz Aluminium Windows and Doors are certified for use:
   a. In:
      i. timber-framed buildings designed and constructed in accordance with NZS3604:2011 Timber framed buildings, and
      ii. light-steel framed buildings designed and constructed in accordance with NASH Standard Part 2: 2019 Light Steel Framed Buildings, and
      iii. buildings specifically designed in accordance with Verification Method B1/VM1,
   b. located:
      i. in wind zones up to and including HIGH (as defined in NZS3604), and for 65 series windows, in wind zones up to and including Extra High (as defined in NZS3604)
      ii. in Climate zones 1 to 6 (as defined in Acceptable Solution H1/AS1)
      iii. in any exposure zone except microclimates (as defined in NZS3604)
   c. in the building envelope enclosing spaces where the temperature or humidity (or both) is modified
2. Greenz Aluminium Windows and Doors shall be installed in accordance with the Greenz Building 50 and 65 series windows and doors Installation Guide Version 1.0 October 2021.
3. Compliance with the following code clauses for buildings incorporating Greenz Aluminium Windows and Doors shall be as follows:
   a. for G4.3.1and G4.3.3, the calculation of window opening areas for Ventilation shall be in accordance with Acceptable Solution G4/AS1
   b. for G7.3.1 and G7.3.2, the calculation of window areas for Natural Light shall be in accordance with Acceptable Solution G7/AS1
   c. for H1.3.1 and H1.3.2E, compliance for buildings shall be established by using:
      i. the calculation method in Acceptable Solution H1/AS1 (Fifth edition Amendment 1), or
      ii. the schedule method in Acceptable Solution H1/AS1 (Fifth edition Amendment 1) or Acceptable Solution H1/AS2 (First Edition Amendment 1) for 65 series (thermal break, low-e DGU Argon filled), or
      iii. the schedule method in H1/AS2 (First Edition Amendment 1) for 50 series (low-e DGU Argon filled) for buildings greater than 300 m^2

7. Health and Safety Information

Health, safety, and well-being declarations associated with installation, maintenance, and use of the building method or product, and their specific editions and dates necessary to ensure the performance requirements of clauses F1 to F9 of the Building Code can be met.

The compliance with any manufacturer's installation instructions, maintenance, OH & S statements, MSDS's and other Health and Safety declarations will provide the necessary Health and Safety Information pertaining to the product.

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8. Basis for Certification

How the performance requirements in the Building Code were met for each of the provisions. Where used as part of a system, the specific contribution to compliance.

B1 Structure - By testing and comparison with the provisions of NZS 4211:2008 Specification for the performance of windows
B2 Durability - By comparison with the provisions of Acceptable Solution B2/VM1 Durability
E2 External moisture - By testing and comparison with Acceptable Solutions E2/AS1 and E2/AS4 and referenced Standard NZS 4211:2008 Specification for the performance of windows
F2 Hazardous building materials - By testing and comparison with the provisions of F2/AS1 Hazardous building materials
G4 Ventilation - By comparison with the provisions of Acceptable Solution G4/AS1 Ventilation
G7 Natural light - By comparison with the provisions of Acceptable Solution G7/AS1 Natural light
H1 Energy efficiency - By testing and comparison with the provisions of Acceptable Solutions H1/AS1 and H1/AS2 Energy efficiency

9. Supporting Documentation for Certification

Reference to any acceptable solutions, verification methods, New Zealand Standards, or other compliance pathways referenced against each individual performance requirement the building method or product is compliant with, and their specific version and date. Reference to documents describing tests and evaluations and any other documents relied on for certification or used to prove compliance, including their full title, specific version and date.

1. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure First edition (Amendment 21), 2 November 2023
2. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability Second edition (Amendment 12), 28 November 2019
3. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause F2 Hazardous building materials First edition (Amendment 3), 1 January 2017
4. Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 for New Zealand Building Code Clause E2 External Moisture Third edition (Amendment 10), 5 November 2020
5. Acceptable Solution E2 External Moisture E2/AS4 First edition, 28 November 2019
6. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause G4 Ventilation Fourth edition, 27 June 2019
7. G7 Natural Light, Acceptable Solution G7/AS1 Natural Light for simple buildings up to three storeys excluding those with borrowed daylight, Second edition, 29 November 2021
8. H1 Energy Efficiency, Acceptable Solution H1/AS1, Energy efficiency for all housing, and buildings up to 300 m^2, Fifth edition 1st Amendment, 4 August 2022
9. H1 Energy Efficiency, Acceptable Solution H1/AS2, Energy efficiency for buildings greater than 300 m^2, First edition 1st Amendment, 4 August 2022
10. H1 Energy Efficiency, Verification Method H1/VM1, Energy efficiency for all housing, and buildings up to 300 m^2, Fifth edition 1st Amendment, 4 August 2022
11. NZS3604:2011 Timber framed buildings
12. NZS4211:2008 Specification for performance of windows
13. NASH Standard Part 2: 2019 Light Steel Framed Buildings

14. James Ficker Report No. i532a Overall "Total R" (Thermally Bridged) Thermal Performance Calculations to AS/NZS4859 Parts 1 & 2:2018, 13 March 2022
15. Building Environment and Energy Testing Centre of CABR Test Report: BCTC-2021QC1-0024 (E) "50 series aluminium alloy window NZS 4211:2008 + A1:2014", 8 March 2021
16. Building Environment and Energy Testing Centre of CABR Test Report: BCTC-2021QC1-0023 (E) "50 series aluminium doors NZS 4211:2008 + A1:2014", 8 March 2021
17. Building Environment and Energy Testing Centre of CABR Test Report: BCTC-2021QC1-0022 (E) "65 series insulated aluminium alloy window NZS 4211:2008 + A1:2014", 8 March 2021
18. Building Environment and Energy Testing Centre of CABR Test Report: BCTC-2021QC1-0025 (E) "65 series insulated aluminium doors NZS 4211:2008 + A1:2014", 8 March 2021
19. SAI Global S Mark licence No. SMK40346 AS/NZS 2208:1996 Safety glazing materials in buildings, Granted 24 June 2021 Australia Landson Glass (Qingdao) Co., Ltd
20. Greenz Building 50 and 65 series windows and doors Material Safety Data Sheet Version 1.0, October 2021
21. Building Environment and Energy Testing Centre of CABR Test Report: BCTC-2023QC1-0585 (E) “65 series external open insulated aluminium alloy window”, 10 September 2023
22. Greenz Building 50 and 65 series windows and doors Installation Guide Version 1.0, October 2021
23. Greenz Building 50 and 65 series windows and doors Design Guide Version 1.0, October 2021.

10. Supporting Information About Description (Optional)

Any supporting information for section 3.

This certificate only applies to the following models and maximum sizes:

- 50 series without thermal break, low E double glazed Argon-filled
  - window 1200 mm x 1600 mm (1200 mm x 800 mm casement plus 1200 mm x 800 mm fixed. External opening casement window area 0.74 m^2)
  - door 2000 x 760
- 65 series with thermal break, low E double glazed Argon-filled
  - External opening insulated window 2995 mm x 2350 mm (900 mm x 1000mm external opening casement window, 1195mm x 1350 mm fixed).
  - door 2000 x 760

The maximum dimensions stated above may be increased by up to 10% in both the vertical or horizontal direction, and the area of the window or door may be increased by up to 15%.

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11. Supporting Information About Intended Use (Optional)

Any supporting information for section 4.

N/A

12. Supporting Information About Conditions and Limitations of Use (Optional)

Any supporting information for section 6.

N/A

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. Please find the register here.

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.