

Certificate no: CMNZ25012

Version: 01

Original issue date: 18 November 2024

Version date: 18 November 2024

1. Certificate Holder Details



Yelly Limited

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2. Product Certification Body



SAI Global Certification Services Pty Limited

(ACN 108 716 669) Trading as "SAI Global" Operating as "Intertek & Intertek SAI Global" Level 7 Suite 7.01, 45 Clarence Street, Sydney NSW - Australia

www.saiglobal.com

Complaints: The complaints process for this certificate can be found here:

<https://saiaassurance.com.au/complaints-appeals/>

Product Certificate

Yelly Limited

Smarm windows and doors

3. Description of Building Method or Product

Smarm windows and doors are a range of window and door products made up of aluminium alloy joinery fitted with double glazed insulated glass units (IGUs) and providing thermal break.

Products are:

- Thermal break Fixed Windows
- Thermal break Awning + Fixed Window
- Thermal break 2 Awnings + Fixed Window
- Thermal break Sliding Door (2 panels, S-F)
- Thermal break Sliding Door (2 panels, S-F) + Awning Window

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.

Product identification: Refer to item 10 for detailed identification information.

4. Intended use of Building Method or Product

Aluminium windows and doors for external use in buildings.

5. New Zealand Building Code Provisions

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 (contributes to); E2.3.7

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 provisions — H1.3.1 (contributes to); H1.3.2E (contributes to)



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*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.*

6. Conditions and Limitations of Use

- a. **Smarm windows and doors** are certified for use in buildings:
- within the scope of Acceptable Solution E2/AS1 Third Edition Amendment 10 (5 November 2020) paragraphs 1.1, 1.1.1, & 1.2.1, and
 - with claddings and details as described in Acceptable Solution E2/AS1 Third Edition Amendment 10 (5 November 2020),
 - located in:
 - Wind Zones (as defined in NZS3604:2011 Timber framed buildings) for each model as follows:
 - 2FW Fixed Window – up to and including High
 - A-FW Awning + Fixed Window – up to and including Medium
 - FW Fixed Window – up to and including High
 - 2A-FW 2 Awning + Fixed Window – up to and including Medium
 - SD Sliding door – Low
 - SD-AW Sliding Door + Awning Window – Low
 - all Exposure Zones, except microclimates (as defined in NZS3604:2011 Timber framed buildings).
 - All Climate Zones.
- b. The following models of **Smarm windows and doors** are certified for use in the building envelope enclosing spaces where the temperature or humidity (or both) is modified:
- 2FW Fixed Window
 - A-FW Awning + Fixed Window
 - FW Fixed Window
 - 2A-FW 2 Awning + Fixed Window
- c. Compliance with the performance criteria in Building Code clauses H1.3.1(a) and H1.3.2E shall be established using the calculated R-values as identified in the “Supporting information about description” section and the following methods:
- For all housing and buildings up to 300 m²:
 - the calculation method (H1/AS1 para 2.1.3) for all models and all Climate Zones, or
 - the schedule method (H1/AS1 para 2.1.2) for all models and all Climate Zones except model SD sliding door in climate zones 5 and 6 and model SD-AW Sliding Door + Awning Window in all climate zones, or
 - the modelling method (H1/VM1 para 2.1.2) for all models and all Climate Zones

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- For buildings greater than 300 m²:
 - the calculation method (H1/AS2 para 2.1.3) for all models and all Climate Zones, or
 - the schedule method (H1/AS2 para 2.1.2) for all models and all Climate Zones except model SD-AW Sliding Door + Awning Window in all climate zones, or
 - the modelling method (H1/VM2 para 2.1.2) for all models and all Climate Zones
- d. Compliance with the performance criteria in Building Code clauses F2.3.2 and F2.3.3 shall be established in accordance with Acceptable Solution and Verification Method for New Zealand Building Code Clause F2 Hazardous building materials First edition, Amendment 3, (1 January 2017).
- e. Compliance with the performance criteria in Building Code clauses G4.3.1 and G4.3.3 shall be established in accordance with Acceptable Solution G4/AS1 Fourth Edition, (27 June 2019) for models with operable sashes and sliding doors.
- f. Compliance with the performance criteria in Building Code clauses G7.3.1 and G7.3.2 shall be established in accordance with Acceptable Solution G7/AS1 Second Edition, (29 November 2021).
- g. Smarm windows and doors shall be installed in accordance with the Yelly Limited - Guide to Window Installation, Version 3.0 - 19 September 2024.

NOTE: Together, items 3,4,5 and 6 define scope of use

7. Health and Safety Information

- Contact certificate holder or distributor to obtain information about material safety and handling.

8. Basis for Certification

- **B1 Structure** – by testing and comparison with provisions of Verification Method B1/VM1; Acceptable Solution E2/AS1; and referenced standard NZS 4211:2008 Specification for Performance of Windows.
- **B2 Durability** – by comparison with the provisions of Acceptable Solution B2/AS1 or Verification Method B2/VM1.
- **E2 External Moisture** – by testing and comparison with provisions of Acceptable Solution E2/AS1 and referenced standard NZS4211:2008 Specification for Performance of Windows.
- **F2 Hazardous building materials** – by comparison with provisions of Verification Method F2/VM1 and Acceptable Solution F2/AS1.
- **G4 Ventilation** – by comparison with product specifications and Acceptable Solution G4/AS1.
- **G7 Natural Light** – by comparison with product specifications and Acceptable Solution G7/AS1.



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- **H1 Energy Efficiency** – Thermal assessment to the requirements of Appendix E.1 of H1/AS1 (and H1/AS2) or equivalent and by testing and comparison with acceptable solutions H1/AS1 and H1/AS2 and verification methods H1/VM1 and H1/VM2.

9. Supporting Documentation for Certification

Acceptable Solutions and Verification Methods for New Zealand Building Code:

- **Clause B1 Structure** – B1/VM1 Verification Method First Edition, Amendment 21 (02 November 2023); E2/AS1 Acceptable Solution Third Edition, Amendment 10 (5 November 2020); and referenced standard NZS 4211:2008 Specification for Performance of Windows.
- **Clause B2 Durability** – B2/VM1 Verification Method Second Edition, Amendment 12 (28 November 2019).
- **Clause E2 External Moisture** – E2/AS1 Acceptable Solution Third Edition, Amendment 10 (5 November 2020).
- **Clause F2 Hazardous building materials** – F2/VM1 Verification Method and F2/AS1 Acceptable Solution First Edition, Amendment 3 (1 January 2017).
- **Clause G4 Ventilation** – G4/AS1 Acceptable Solution, Fourth Edition (27 June 2019).
- **Clause G7 Natural Light** – G7/AS1 Acceptable Solution, Second Edition (29 November 2021).
- **Clause H1 Energy Efficiency** – H1/AS1 Acceptable Solution Fifth Edition, Amendment 1 (4 August 2022); H1/AS2 Acceptable Solution First Edition, Amendment 1 (4 August 2022); H1/VM1 Verification Method Fifth Edition, Amendment 1 (4 August 2022); H1/VM2 First Edition, Amendment 1 (4 August 2022).

Test Reports

- **Intertek, Yelly Limited (2FW Fixed Window - Thermal break Fixed Window) Test Report No. 230926013SHF-001 (dated 26 February 2024)**
The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the window meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for HIGH wind zone.
- **Intertek, Yelly Limited (A-FW Awning + Fixed Window - Thermal break Awning + Fixed Window) Test Report No. 230926013SHF-002 (dated 26 February 2024)**
The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the window meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for MEDIUM wind zone.



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- Intertek, Yelly Limited (FW Fixed Window - Thermal break Fixed Window) Test Report No. 230926013SHF-003 (dated 26 February 2024)**

The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the window meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for HIGH wind zone.
- Intertek, Yelly Limited (2A-FW 2 Awning + Fixed Window - Thermal break 2 Awnings + Fixed Window) Test Report No. 230926013SHF-004 (dated 26 February 2024)**

The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the window meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for MEDIUM wind zone.
- Intertek, Yelly Limited (SD Sliding door - Thermal break Sliding Door - 2 panels, S-F) Test Report No. 230926013SHF-005 (dated 26 February 2024)**

The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the window meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for LOW wind zone.
- Intertek, Yelly Limited (SD-AW Sliding Door + Awning Window - Thermal break Sliding Door (2 panels, S-F) + Awning Window) Test Report No. 230926013SHF-006 (dated 26 February 2024)**

The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the window meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for LOW wind zone.
- Sustainable Engineering Ltd, Yelly Limited – Smarm 20240605 Report (dated 05 June 2024)**

This report presents calculations of R-values using the Smarm Joinery Calculator (20240515Smarm_JoineryCalculator-2) and Smarm_ISO10077-2FrameCalculations. The results demonstrated in Smarm 20240605 report provide the calculated R-values as identified in the “Supporting information about description” section.
- Yelly Limited, Durability Declaration (dated 09 May 2024)**

This declaration confirms that Smarm windows and doors are designed to be durable for more than 15 years for aluminium windows and doors and 5 years for hardware.



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- **Yelly Limited "Declaration of conformity" (dated 20 May 2024)**

This declaration confirms that Smark windows and doors comply with the requirements for Hazardous Building Materials by way of design and materials.

10. Supporting Information About Description

This certification covers only the following models and their respective maximum dimensions*

Model: 2FW Fixed Window

Maximum Dimensions: 2700mm(H) x 3330mm(W)

Model: A-FW Awning + Fixed Window

Maximum Dimensions: 1500mm(H) x 4110mm(W)

Maximum Operable Sash Dimensions: 1425mm(H) x 1056mm(W)

Model: FW Fixed Window

Maximum Dimensions: 2700mm(H) x 3330mm(W)

Model: 2A-FW 2 Awning + Fixed Window

Maximum Dimensions: 1820mm(H) x 1800mm(W)

Maximum Operable Sash Dimensions: 866mm(H) x 856mm(W)

Model: SD Sliding door

Maximum Dimensions: 2200mm(H) x 2300mm(W)

Maximum Operable Panel Dimensions: 2065mm(H) x 1113mm(W)

Model: SD-AW Sliding Door + Awning Window

Maximum Dimensions: 2200mm(H) x 2400mm(W)

Maximum Operable Sash Dimensions: 1045mm(H) x 745mm(W)

Maximum Operable Panel Dimensions: 2065mm(H) x 763mm(W)

* This certification is also applicable where the area of the window or door assembly is no greater than 10% in either the horizontal or vertical direction, or no greater than 15% of the total area, provided the larger sized window or door assembly meets all applicable requirements specified in NZS 4211:2008, clause 5.2.2.



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| Models | Glass Types | U _w | R _w |
|---|-----------------------------|----------------------|--------------------|
| | | W/(m ² K) | m ² K/W |
| 2A-FW 2 Awning + Fixed Window | H1/AS1 Low E4/Clear Argon | 2.01 | 0.50 |
| 2FW Fixed Window) Fixed (60mm Thickness) | H1/AS1 Low E2/Clear Argon | 1.83 | 0.55 |
| SD-AW Sliding Door + Awning Window | H1/AS1 Low E4/Clear Krypton | 2.82 | 0.32 |
| | H1/AS1 Low E4/Clear Krypton | 3.53 | |
| A-FW Awning + Fixed Window | H1/AS1 Low E3/Clear Argon | 1.79 | 0.56 |
| SD Sliding door | H1/AS1 Low E4/Clear Krypton | 2.14 | 0.47 |
| FW Fixed Window | H1/AS1 Low E3/Clear Argon | 1.53 | 0.65 |

11. Supporting Information About Intended Use

Nil

12. Supporting Information About Conditions and Limitations of Use

- Glass selection and glazing shall be in accordance with NZS4223.1:2008 and in locations subject to human impact must be in accordance with NZS4223.3:2016.
- Where transparent glazing can be mistaken for a doorway or an unimpeded path of travel in all buildings of classified uses (excluding Housing), the presence of glazing shall be made apparent either by the provision of an opaque band across the full width of the glazed opening or by a motif or other decorative treatment in accordance with Clause 2.2 of NZS 4223.3:2016.



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Signatures

Name and Signature of the Product Certification Body's (PCB) authorised representative and, where different, the person assigned by the PCB to make the certification decision.

A handwritten signature in black ink, appearing to read "Calin Moldovean".

Calin Moldovean
President, Business Assurance
SAI Global Assurance

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.



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