

Certificate no: CMNZ25009

Version: 01

Original issue date: 28 August 2023

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# Product Certificate

## Fuzhou ROPO Building Materials Co., Ltd. Fuzhou ROPO Aluminium Doors and Windows

### 1. Certificate Holder Details



#### Fuzhou ROPO Building Materials Co., Ltd.

#806 Fusheng Mansion, No. 3 Fuxing Ave, Jin'an District, Fuzhou City, Fujian, 350014 China  
[benison@chinaropo.com](mailto:benison@chinaropo.com)  
+86-591-87147106  
[www.ropowindows.com](http://www.ropowindows.com)

### 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](http://www.saiglobal.com)

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

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

### 3. Description of Building Method or Product

Fuzhou ROPO Aluminium Doors and Windows are a range of aluminium alloy joinery fitted with double-glazed insulated glass units (IGUs). Products are an Aluminium Hinged Door, Aluminium Folding Door, Aluminium Tilt and Turn Window (with thermal break), and Aluminium Hinged Door (with thermal break).

*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 brochure/catalogue or models identification numbers: Refer to item 10 for detailed identification information.

### 4. Intended use of Building Method or Product

Aluminium doors and windows for external use in housing.

### 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; F2.3.3 (a) or (b)

**Clause G4 Ventilation** — G4.3.1 (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)

*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.*



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### 6. Conditions and Limitations of Use

- a) **Fuzhou ROPO Aluminium Doors & Windows** 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:
    - i. Wind Zones (as defined in NZS3604:2011 Timber framed buildings) for each model as follows:  
ROPO70 TT (Aluminium Tilt & Turn Window with Thermal Break) - up to and including Extra High  
ROPO115 HD (Aluminium Hinged Door with Thermal Break) - up to and including Extra High  
ROPO100 HD (Aluminium Hinged Door) - up to and including Extra High  
ROPO100 FD (Aluminium Folding Door) - up to and including High
    - ii. all Exposure Zones, except microclimates, (as defined in NZS3604:2011 Timber framed buildings).
- b) The following models of Fuzhou ROPO Aluminium Doors & Windows are certified for use in the building envelope enclosing spaces where the temperature or humidity (or both) is modified:  
ROPO70 TT (Aluminium Tilt & Turn Window with Thermal Break)  
ROPO115 HD (Aluminium Hinged Door with Thermal Break)  
ROPO100 HD (Aluminium Hinged Door)
- c) Establishing compliance with the performance criteria in Building Code clauses H1.3.1(a) and H1.3.2E shall be done using the generic construction R-values in Acceptable Solution H1/AS1 Fifth Edition Amendment 1, (4 August 2022), Table E.1.1.1 with either of the following:
- the calculation method in Acceptable Solution H1/AS1 Fifth Edition Amendment 1, (4 August 2022), or
  - the modelling method in H1/VM1 Fifth Edition Amendment 1, (4 August 2022)
- d) Establishing compliance with the performance criteria in Building Code clause G4.3.1 shall be in accordance with Acceptable Solution G4/AS1 4th Edition, (27 June 2019).
- e) Establishing compliance with the performance criteria in Building Code clauses G7.3.1 and G7.3.2 shall be in accordance with Acceptable Solution G7/AS1 2nd Edition, (29 November 2021).
- f) Fuzhou ROPO Aluminium Doors & Windows shall be installed in accordance with the Fuzhou ROPO Building Materials Co. Ltd - Aluminum Doors and Windows Technical Manual, Version 5, 24 January 2023



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- g) This product is not certified for use where there are fire rating requirements.

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

Reference Documents:

- Fuzhou ROPO Building Materials Co. Ltd - Aluminum Doors and Windows Technical Manual, Version 5, 24 January 2023

### 7. Health and Safety Information

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- Contact certificate holder via website to obtain information about material safety and handling.

### 8. Basis for Certification

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- 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 provisions of 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.
- H1 Energy Efficiency** – by testing and comparison with Acceptable Solution H1/AS1 and Verification Method H1/VM1.

### 9. Supporting Documentation for Certification

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Acceptable Solutions and Verification Methods for New Zealand Building Code:

- Clause B1 Structure** – B1/VM1 Verification Method First Edition, Amendment 20 (29 November 2021); 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).



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- **Clause H1 Energy Efficiency Provisions** – H1/AS1 Acceptable Solution Fifth Edition Amendment 1, (4 August 2022); H1/VM1 Verification Method Fifth Edition Amendment 1, (4 August 2022).

### Test Reports

- **Intertek, Fuzhou ROPO Building Materials Co., Ltd (ROPO70 TT - Aluminium Tilt & Turn Window with Thermal Break) Test Report No. 210930003SHF-001 (dated 24 December 2021)**  
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 EXTRA HIGH wind zone.
- **Intertek, Fuzhou ROPO Building Materials Co., Ltd (ROPO115 HD - Aluminium Hinged Door with Thermal Break) Test Report No. 210930003SHF-003 (dated 24 December 2021)**  
The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the door meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for EXTRA HIGH wind zone.
- **Intertek, Fuzhou ROPO Building Materials Co., Ltd (ROPO100 HD - Aluminium Hinged Door) Test Report No. 210930003SHF-005 (dated 24 December 2021)**  
The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the door meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for EXTRA HIGH wind zone.
- **Intertek, Fuzhou ROPO Building Materials Co., Ltd (ROPO100 FD - Aluminium Folding Door) Test Report No. 210930003SHF-007 (dated 24 December 2021)**  
The results demonstrated in this report are compliant with the applicable requirements of NZS 4211:2008 (Amdt 1-2014). This report established the door meets the requirements of the referenced standard NZS 4211: 2008 New Zealand Standard - Specification for performance of windows for HIGH wind zone.
- **Fuzhou ROPO Building Materials Co., Ltd, Durability Declaration (dated 01 February 2023)**  
This declaration confirms that Fuzhou ROPO Aluminium Doors and Windows are designed to be durable for more than 15 years for aluminium windows and doors and 5 years for hardware.

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▪ **Fuzhou ROPO Building Materials Co., Ltd, Declaration of Conformity (dated 01 February 2023)**

This declaration confirms that the product complies with the requirements for Hazardous Building Materials by way of design and materials.

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### 10. Supporting Information About Description

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

**ROPO70 TT - Aluminium Tilt & Turn window with Thermal break**

Overall Dimensions: 1800mm(H) x 1600mm(W)

Operable Sash Dimensions: 1730mm(H) x 750mm(W)

**ROPO115 HD - Aluminium Hinged Door with Thermal break**

Overall Dimensions: 2400mm(H) x 900mm(W)

Door Panel Dimensions: 2332mm(H) x 832mm(W)

**ROPO100 HD - Aluminium Hinged Door**

Overall Dimensions 2400mm(H) x 900mm(W)

Door Panel Dimensions: 2332mm(H) x 832mm(W)

**ROPO100 FD - Aluminium Folding Door**

Overall Dimensions: 2400mm(H) x 2500mm(W)

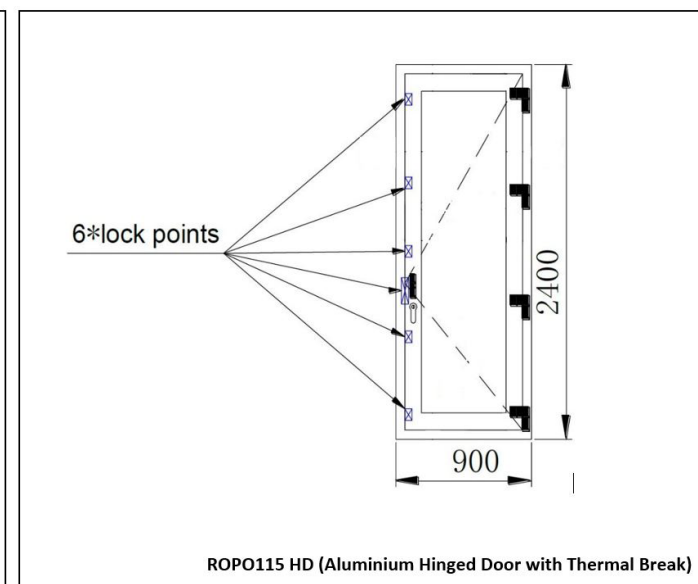
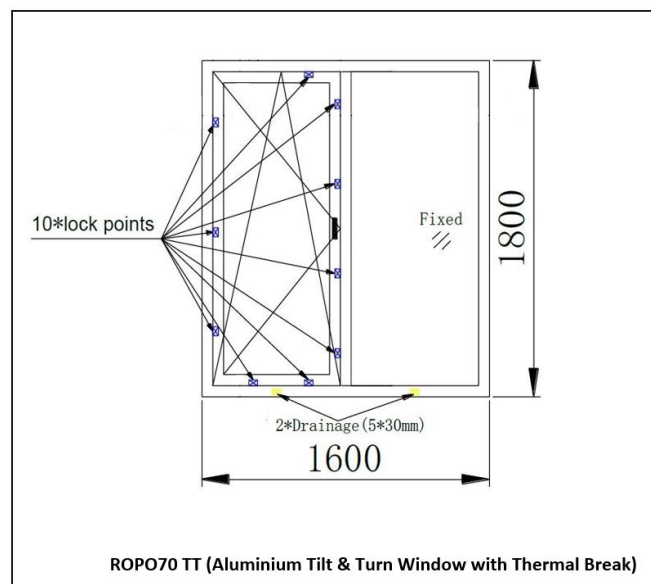
Door Panel Dimensions: 2297mm(H) x 782 mm(W)

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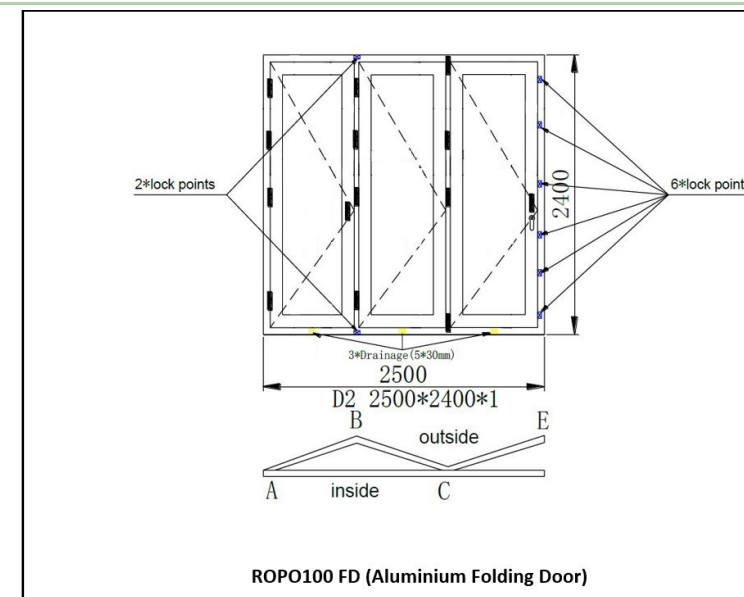
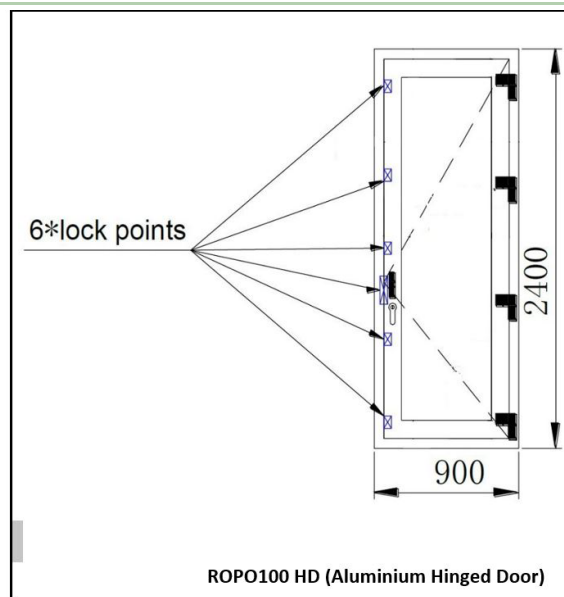


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## 11. Supporting Information About Intended Use

Nil

## 12. Supporting Information About Conditions and Limitations of Use

- Consideration must be given to glazing rebates as inadequate drainage will affect the durability of insulating glass units and laminated glass.
- 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.

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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.



**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.