



CERTIFICATE NO: CM20251

PRODUCT CERTIFICATE

Tianjin HQ Aluminium Alloy Windows



First issued: 9/08/2022
Last Updated: 9/08/2022
Review Date: 8/08/2025

1 CERTIFICATE HOLDER DETAILS

Tianjin HQ Intelligent Technology Co., Ltd

Balitai Town Industrial Park,
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Phone: +86 159 0 129 8435

New Zealand Distributor Details

SHANGDA CONSTRUCTION AND DEVELOPMENT
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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"

JAS-ANZ Accreditation No. Z1440295AS

650 Lorimer Street Port, Melbourne, VIC 3207

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KEY INFORMATION

3 SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT

Tianjin HQ windows are double-glazed aluminium alloy awning and aluminium alloy tilt & turn windows.

Continuation of description can be found in item 9. Supporting Information about Description of Building Product or Method.

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.

Catalogue or model identification numbers: Refer to item 9 for detailed identification information.

4 SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

Aluminium windows for external use in all buildings of classified uses (under Clause A1 of the NZBC) excluding ancillary buildings.

Continuation of intended use can be found in item 10. Supporting Information about Intended use of Building Product or Method.

5 BUILDING CODE PROVISIONS – New Zealand Building Code (NZBC) as at 15 November 2021

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

If designed, used, installed & maintained in accordance with the scope of this Certificate, the above-mentioned product will meet the following provisions of the NZBC.

How the building method or product complies or contributes can be found in item 12. Basis for Certification.

Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.



The certificate holder must maintain compliance with the conditions set out in section 15 of the Building (Product Certification) Regulations 2008.

This certificate is issued by SAI Global, an independent certification body accredited by the product certification accreditation body appointed by the Chief Executive of Ministry 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 product(s) referred to in this certificate.

This certificate may only be reproduced in its entirety. It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website <http://www.building.govt.nz>.

Information regarding SAI Global's complaints process can be found at the following link: [Complaints Process](#).

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SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

6 CONDITIONS AND LIMITATIONS OF USE

- a) Tianjin HQ Aluminium Alloy 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:
 - Wind Zones up to and including VERY HIGH (as defined in NZS 3604:2011 Timber framed buildings).
 - Exposure Zones, except microclimates, as defined in NZS 3604:2011 Timber framed buildings.
- b) Tianjin HQ Aluminium Alloy Windows are certified for use in the building envelope enclosing spaces where the temperature or humidity (or both) is modified.
- c) Establishing compliance with the performance criteria in Building Code clauses H1.3.1(a) and H1.3.2E shall be in accordance with either of the following:
 - the calculation method in Acceptable Solution H1/AS1 (Fifth Edition) or the modelling method in H1/VM1 (Fifth Edition), for all housing and buildings up to 300 m².
 - the calculation method in H1/AS2 (First Edition) or the modelling method in H1/VM2 (First Edition), for buildings greater than 300 m².
- d) Establishing compliance with the performance criteria in Building Code clause G4.3.1 shall be in accordance with Acceptable Solution G4/AS1 Fourth Edition, (27 June 2019).
- e) Establishing compliance with the performance criteria in Building Code clause G7.3.1 and G7.3.2 shall be in accordance with Acceptable Solution G7/AS1 Second Edition, (29 November 2021).
- f) Tianjin HQ Aluminium Alloy Windows shall be installed in accordance with the Tianjin HQ Intelligent Technology Co., Ltd. – Window Installation Guide (HGLT-AZSC version 1.8, dated 21/12/2021).
- 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.

7 HEALTH AND SAFETY INFORMATION

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

8 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

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SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

9 SUPPORTING INFORMATION ABOUT DESCRIPTION

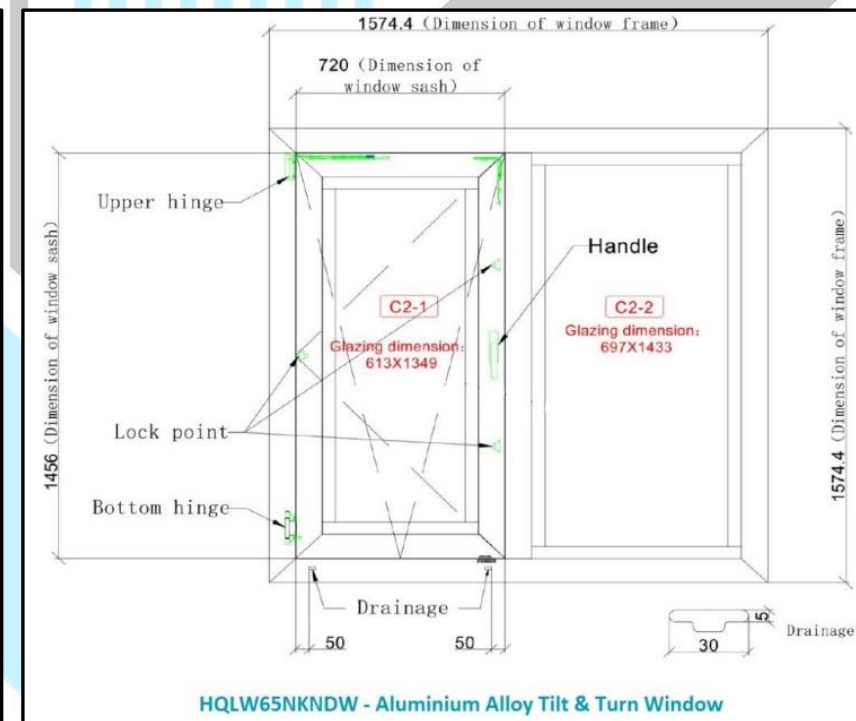
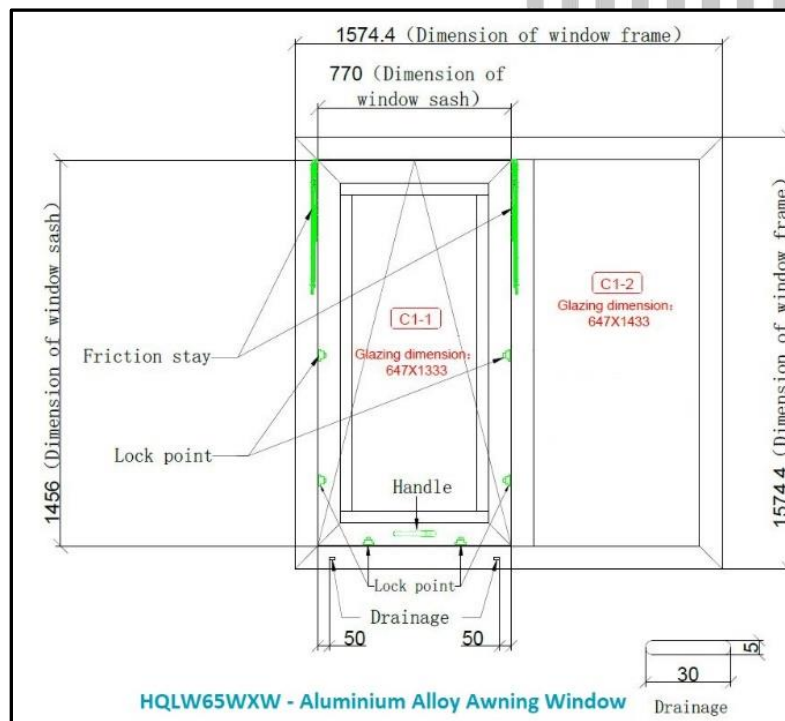
This certification covers only the following models and their respective maximum dimensions:

A. HQLW65WXW – Aluminium Alloy Awning Window

- Overall Dimension: 1574.4mm(H) x 1574.4mm (W)
- Operable Sash Dimension: 1456mm(H) x 770mm(W)

B. HQLW65NKNDW – Aluminium Alloy Tilt & Turn Window

- Overall Dimension: 1574.4mm(H) x 1574.4mm (W)
- Operable Sash Dimension: 1456mm(H) x 720mm(W)





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10 SUPPORTING INFORMATION ABOUT INTENDED USE

All supporting information about intended use are as stated above in item 4. SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

11 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 NZS 4223.1:2008 and in locations subject to human impact must be in accordance with NZS 4223.3:2016.
- 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.

12 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 provisions of Verification Method B2/VM1.
- **E2 External Moisture** – by testing and comparison with provisions of Acceptable Solution & Verification Methods E2/AS1 and referenced standard NZS 4211:2008 Specification for Performance of Windows.
- **F2 Hazardous building materials** – by comparison with provisions of Verification Method F2/VM1 & 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 Solutions H1/AS1 & H1/AS2 and Verification Methods H1/VM1 & H1/VM2.



The certificate holder must maintain compliance with the conditions set out in section 15 of the Building (Product Certification) Regulations 2008.

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13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

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).
- **G4 Ventilation** – G4/AS1 Acceptable Solution Fourth Edition (27 June 2019).
- **G7 Natural Light** – G7/AS1 Acceptable Solution Second Edition (29 November 2021).
- **Clause H1 Energy Efficiency** – H1/AS1 Acceptable Solution Fifth Edition (29 November 2021); H1/AS2 Acceptable Solution First Edition (29 November 2021); H1/VM1 Verification Method Fifth Edition (29 November 2021); and H1/VM2 Verification Method First Edition (29 November 2021).

Test Reports

- **Intertek, Tianjin HQ Intelligent Technology Co., Ltd. (Aluminium Alloy Awning Window - HQLW65WXW) Test Report No. 210329013SHF-001-R1 (dated 16 June 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 VERY HIGH wind zone.
- **Intertek, Tianjin HQ Intelligent Technology Co., Ltd. (Aluminium Alloy Tilt & Turn Window - HQLW65NKNDW) Test Report No. 210329013SHF-002-R1 (dated 16 June 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 VERY HIGH wind zone.
- **SAI Global, StandardsMark Licence for Shandong Yaohua Glass Co., Ltd. Licence SMK40107 (dated 13 September 2021)**
This certificate provides evidence that glass products listed in licence SMK40107 comply with AS/NZS 2208:1996 – Safety glazing materials in buildings.
- **SAI Global, StandardsMark Licence for Shandong Yaohua Glass Co., Ltd. Licence SMK40676 (dated 27 June 2019)**
This certificate provides evidence that glass products listed in licence SMK40676 comply with AS/NZS 4666:2012 – Insulating glass units.
- **Tianjin HQ Intelligent Technology Co., Ltd., Durability Declaration (dated 6 March 2022)**
This declaration confirms that Tianjin HQ Intelligent Technology Co. Ltd. - Aluminium Alloy Windows are designed to be durable for more than 15 years for aluminium windows and 5 years for hardware, based on extended use for over 20 years in New Zealand.
- **Tianjin HQ Intelligent Technology Co., Ltd., Declaration of Conformity (dated 6 March 2022)**
This declaration confirms that the product complies with the requirements for Hazardous Building Materials by way of design and materials.



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14 CONDITIONS RELATING TO NOTIFICATION

- (a) the certificate holder notifies the product certification body in writing of any intended change to any of the following particulars:
- (i) the name, address, or contact details of the certificate holder;
 - (ii) any address of a location where a certified product is produced or manufactured;
- (b) the certificate holder notifies the product certification body in writing of any intended change, modification, or alteration to any of the following:
- (i) the certified building method or product;
 - (ii) the method of its production or manufacture;
 - (iii) the product quality plan prepared in respect of the certified building method or product;
 - (iv) the application or installation instructions for the certified building method or product;
 - (v) any documentation relating to the use and maintenance of the certified building method or product;
- (c) 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 notifies the product certification body in writing of the reason for that suspicion:
- (d) 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 discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive:
- (e) if the certificate is suspended or revoked, the certificate holder—
- (i) notifies all customers to whom the building method or product is regularly supplied; and
 - (ii) immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.



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