



ICC-ES Listing Report

ESL-1417

Issued October 2025

This listing is subject to renewal in October 2026.

CSI: DIVISION: 08 00 00—OPENINGS
Section: 08 50 00—Windows

Product Certification System:

The ICC-ES product-certification system includes evaluating evidence in support of test data provided by the listee to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Products: QST TB-ALU-108 CASEMENT WINDOW AND QST TB-ALU-138 SLIDING DOOR

Listee: DALIAN QUACENT CO., LTD.

Additional Listee: GUANGDONG JIANG ARCHITECTURE TECHNOLOGY CO., LTD.

Evaluation: The QST TB-Alu-108 Casement Window and QST TB-Alu-138 Sliding Door are assembled with extruded 6063-T5 aluminum profiles, hollow tempered glass consisting of three 0.197-inch thick (5 mm) tempered glass layers with glass spacers varying from 0.236-inch to 0.472-inch wide (6 mm to 12 mm), and weatherstripping made of EPDM strips. The products were evaluated based on the following standard:

- AAMA / WDMA / CSA 101 / I.S.2 / A440 (-22 and -17,) North American Fenestration Standard / Specification for windows, doors, and skylights (NAFS), American Architectural Manufacturers Association (AAMA) / Window and Door Manufacturers Association (WDMA) / CSA Group (CSA)

Findings: The QST TB-Alu-108 Casement Window and QST TB-Alu-138 Sliding Door were tested in accordance with the requirements under Section 9.3 and Table 12.2 of the NAFS. Each product meets the requirements achieving a Performance Grade (PG) with corresponding uniform design resistance, air leakage, and water penetration resistance; see Table 1 for results and Figure 1 and 2 for details. Approval of the products' use is the sole responsibility of the local code (building) official.

The NAFS is referenced in the applicable sections of the following code editions:

- 2024 and 2021 *International Building Code*®
Applicable Section: 1709.5.1
- 2024 and 2021 *International Residential Code*®
Applicable Section: R609.3, N1102.4.3

Identification:

1. The ICC-ES mark of conformity, electronic labeling, or the listing report number (ICC-ES ESL-1417), and when applicable, the ICC-ES Listing Mark, along with the name, registered trademark, or registered logo of the listee must be included in the product label.
2. In addition, each product is identified with a label based on the name (Dalian Quacent Co., Ltd. or Guangdong Jiange Architecture Technology Co., Ltd.), product designation, and performance grade rating as specified under the NAFS and the product name (See Table 2 of this report).

3. The report holder's contact information is the following:

DALIAN QUACENT CO., LTD.
NO. 10 QUANNAN STREET, FREE TRADE ZONE
DALIAN, LIAONING 116600
CHINA
www.quacent.com

4. The additional listee's contact information is the following:

GUANGDONG JIANGE ARCHITECTURE TECHNOLOGY CO., LTD.
BEIYUAN MIDDLE ROAD, SHISHAN TOWN, NANHAI DISTRICT
FOSHAN CITY, GUANGDONG PROVINCE 528200
CHINA

Installation: The products must be installed in accordance with the Dalian Quacent Co., Ltd.'s published installation instructions and applicable codes.

Conditions of listing:

- The listing addresses only conformance with the standard and code sections noted above.
- Approval of the products' use is the sole responsibility of the local code official.
- The listing applies only to the materials tested and as submitted for review by ICC-ES.
- The products are manufactured under a quality control program with inspections by ICC-ES.

TABLE 1: PRODUCT DETAILS

Performance Class	Product Type (Operator Type)	Primary designator (Class – Performance Grade: Size – Product Type)	Secondary Designator		Test Results		
			Uniform Design Pressure ASTM E330	Water Penetration Resistance ASTM E331	Uniform Structural Pressure ASTM E330	Air Leakage Resistance ASTM E283	Forced Entry Resistance
CW	CASEMENT WINDOW	Class CW – PG30: Size tested. 2400 mm x 3000 mm (~94.49 in x 118.11 in.) ¹ - C	+ 1440 Pa (Positive) – 1440 Pa (Negative) [+30.08 psf (Positive) -30.08 psf (Negative)]	220 Pa (4.59 psf)	+ 2160 Pa (Positive) – 2160 Pa (Negative) [+45.11 psf (Positive) -45.11 psf (Negative)]	< 0.5 L/s/m (< 0.1 cfm/ft ²)	ASTM F588 Type B Grade 10
R	SLIDING DOOR	Class R – PG25: Size tested. 2400 mm x 3000 mm (~94.49 in x 118.11 in.) ¹ - SD	+ 1200 Pa (Positive) – 1200 Pa (Negative) [+25.06 psf (Positive) -25.06 psf (Negative)]	180 Pa (3.76 psf)	+ 1800 Pa (Positive) – 1800 Pa (Negative) [+37.59 psf (Positive) -37.59 psf (Negative)]	< 1.5 L/s/m (< 0.3 cfm/ft ²)	ASTM C842 Type C Grade 10

For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa

¹Maximum tested size.

TABLE 2: COMPANY NAME AND PRODUCT NAME CORRELATION

COMPANY NAME	PRODUCT NAMES	
Dalian Quacent Co., Ltd.	QST TB-ALU-108 CASEMENT WINDOW	QST TB-ALU-138 SLIDING DOOR
Guangdong Jiange Architecture Technology Co., Ltd.	GINGLE JG108 SERIES NARROW-FRAME WINDOW	GINGLE JG138 SERIES NARROW-FRAME PANORAMIC DOOR

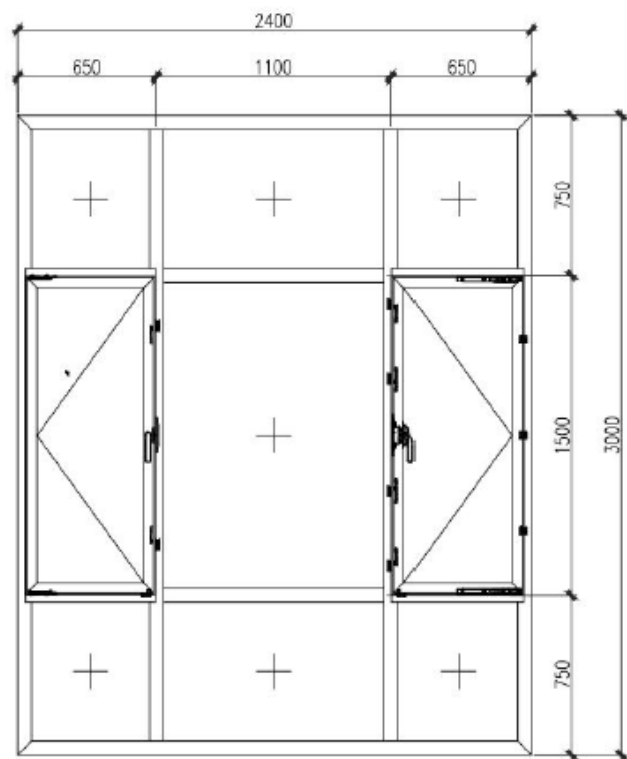


FIGURE 1 – QST TB-ALU-108 CASEMENT WINDOW (TYPE C)

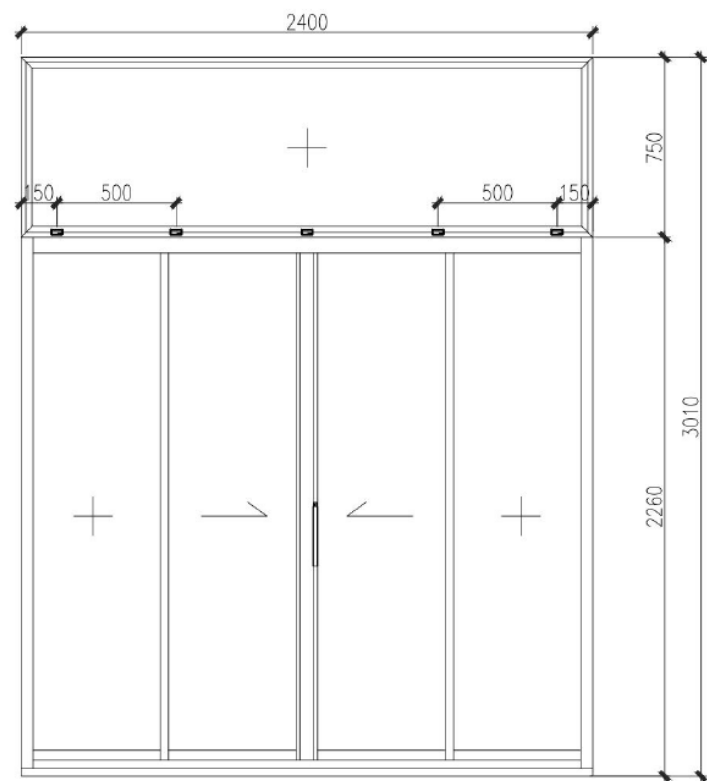


FIGURE 2 – QST TB-ALU-138SLIDING DOOR (TYPE SD)