

Test Report

Sample Description: 110 Series Casement Window

Type/Model: /

Inspected Entity: Guangdong Baojie Building Materials Co., Ltd.

Test Type: Commissioned Testing

Guangdong Product Quality Supervision and Inspection Research Institute

Product Name: 110 Series Casement Window

Production Date: /

Type/Model: /

Sample Grade: Qualified Product

Trademark: /

Sample Number: /

Inspected Entity: Guangdong Baojie Building Materials Co., Ltd.

Test Type: Commissioned Testing

Inspected Entity Address: Building 1, No. 528, Qiaoxing Avenue, Panyu District, Guangzhou City

Sampling Location: /

Production Unit: /

Sampling Basis: /

Sample Receiving Method: Commissioned Delivery

Sender/Sampler: /

Sample Quantity: 1 set

Arrival Date: June 17, 2025

Issuance Date: June 25, 2025



Sample Status: Sample appearance intact

Test Basis: GB/T 7106-2019, GB/T 8484-2020, GB/T 8485-2008

Test Items: According to customer requirements, the submitted samples were tested based on the standards. Specific test items are detailed on subsequent pages.

Test Conclusion: The test results of the items inspected for this sample comply with the relevant provisions of the above basis. See the test results on the next page for details.

(Special Seal for Inspection and Testing)

Issuance Date: June 25, 2025

Remarks: 1. "-----" in the report indicates that this item is not applicable, and "/" in the report indicates that this item is blank.

Approved by: Reviewed by: Chief Inspector:



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No.	Inspection Item	Performance Requirements	Test Results	Judgment
I	Wind Pressure Resistance Performance			
1	Wind Pressure Resistance P_3/kPa	$P_3 \geq 5.0$	5.0	Level 9
2	Under $1.5P_3$ wind pressure, the glass panel should not be damaged.	No damage	Qualified	
II	Air Permeability Performance			
1	Positive Pressure			
	Air permeability per unit length of crack $q_1/[\text{m}^3/(\text{m} \cdot \text{h})]$	$q_1 \leq 0.5$	0.33	Level 8
	Air permeability per unit area $q_2/[\text{m}^3/(\text{m}^2 \cdot \text{h})]$	$q_2 \leq 1.5$	1.01	Level 8
2	Negative Pressure			
	Air permeability per unit length of crack $q_1/[\text{m}^3/(\text{m} \cdot \text{h})]$	$q_1 \leq 0.5$	0.25	Level 8
	Air permeability per unit area $q_2/[\text{m}^3/(\text{m}^2 \cdot \text{h})]$	$q_2 \leq 1.5$	0.75	Level 8
III	Water Tightness Performance $\Delta P/\text{Pa}$	$250 \leq \Delta P < 350$	250	Level 3
IV	Thermal Insulation Performance $K/[\text{W}/(\text{m}^2 \cdot \text{K})]$	$3.5 > K \geq 3.0$	3.12	Level 4
V	Airborne Sound Insulation Performance $R_w + C_{tr}/\text{dB}$	$25 \leq R_w + C_{tr} < 30$	28	Level 2

Remarks: No further text below.

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GB/T31433-2015 Wind Pressure Resistance Classification kPa

Classification	1	2	3	4	5
Index Value P_3	$1.0 \leq P_3 < 1.5$	$1.5 \leq P_3 < 2.0$	$2.0 \leq P_3 < 2.5$	$2.5 \leq P_3 < 3.0$	$3.0 \leq P_3 < 3.5$

Classification	6	7	8	9
Index Value P3	$3.5 \leq P3 < 4.0$	$4.0 \leq P3 < 4.5$	$4.5 \leq P3 < 5.0$	$P3 \geq 5.0$

Note: For Level 9, the specific test pressure difference value should be indicated simultaneously after classification.

GB/T31433-2015 Air Permeability Performance Classification

Classification	1	2	3	4	5	6	7	8
Index Value per Unit Length of Opening $q1/[m^3/(m \cdot h)]$	$4.0 \geq q1 > 3.5$	$3.5 \geq q1 > 3.0$	$3.0 \geq q1 > 2.5$	$2.5 \geq q1 > 2.0$	$2.0 \geq q1 > 1.5$	$1.5 \geq q1 > 1.0$	$1.0 \geq q1 > 0.5$	$q1 \leq 0.5$
Index Value per Unit Area $q2/[m^3/(m^2 \cdot h)]$	$12 \geq q2 > 10.5$	$10.5 \geq q2 > 9.0$	$9.0 \geq q2 > 7.5$	$7.5 \geq q2 > 6.0$	$6.0 \geq q2 > 4.5$	$4.5 \geq q2 > 3.0$	$3.0 \geq q2 > 1.5$	$q2 \leq 1.5$

GB/T31433-2015 Water Tightness Performance Classification Pa

Classification	1	2	3	4	5	6
Index Value ΔP	$100 \leq \Delta P < 150$	$150 \leq \Delta P < 250$	$250 \leq \Delta P < 350$	$350 \leq \Delta P < 500$	$500 \leq \Delta P < 700$	$\Delta P \geq 700$

Note: For Level 6, the specific test pressure difference value should be indicated simultaneously after classification.

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GB/T31433-2015 Thermal Insulation Performance Classification $W/(m^2 \cdot K)$

Classification	1	2	3	4	5
Index Value	≥ 5.0	$5.0 > K \geq 4.0$	$4.0 > K \geq 3.5$	$3.5 > K \geq 3.0$	$3.0 > K \geq 2.5$

Classification	6	7	8	9	10
Index Value	$2.5 > K \geq 2.0$	$2.0 > K \geq 1.6$	$1.6 > K \geq 1.3$	$1.3 > K \geq 1.1$	$K < 1.1$

GB/T31433-2015 Sound Insulation Performance Classification dB

Classification	1	2	3
External Window Index Value	$20 \leq R_w + C_{tr} < 25$	$25 \leq R_w + C_{tr} < 30$	$30 \leq R_w + C_{tr} < 35$

Classification	4	5	6
External Window Index Value	$35 \leq R_w + C_{tr} < 40$	$40 \leq R_w + C_{tr} < 45$	$R_w + C_{tr} \geq 45$



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Guangdong Product Quality Supervision and Inspection Research Institute (hereinafter referred to as Guangdong Quality Inspection Institute, English abbreviation GQII), established in September 1983, also known as Guangzhou Electrical Safety Inspection Institute and Guangdong Provincial Testing and Certification Research Institute, is a sub-departmental public institution directly under the Guangdong Provincial Administration for Market Regulation (Intellectual Property Office).

Guangdong Quality Inspection Institute is a statutory social third-party institution directly under the Guangdong Provincial Administration for Market Regulation (Intellectual Property Office) specializing in product quality inspection, testing, and certification. It is a national-level laboratory and inspection body accredited by the China National Accreditation Service for Conformity Assessment (CNAS), an international CB laboratory accredited by the International Electrotechnical Commission System for Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE), a national mandatory product certification (CCC) testing institution designated by the Certification and Accreditation Administration of the People's Republic of China (CNCA), a contracted laboratory for certification bodies such as China Quality Certification Centre (CQC), and a product testing and inspection institution recognized by China Classification Society. It is also an organizing unit for product quality appraisal designated by the Guangdong Provincial Administration for Market Regulation (Intellectual Property Office), and a judicial entrusted quality appraisal institution registered and recognized by the Higher People's Courts of Guangdong, Hainan, Shaanxi, Gansu, and Shandong provinces. Guangdong Quality Inspection Institute has 4 subordinate companies: Guangdong Quality Inspection Zhongcheng Certification Co., Ltd., Guang'an Electrical Testing Center (Guangdong) Co., Ltd., Guangdong Hua'an Fire Technology Service Co., Ltd., and Guangdong Quality Inspection Technology Development Co., Ltd.

Guangdong Quality Inspection Institute currently has 1 headquarters and 3 bases, with modern laboratories and office spaces covering approximately 148,000 square meters, assets exceeding 1.36 billion yuan, over a thousand highly qualified professional technical and management personnel, and over 18,000 sets of advanced testing instruments and equipment. The accredited inspection and testing qualifications cover 92 categories and 3516 types of products/items, involving 10882 standards; the international mutual recognition CB testing capability covers 12 categories and 184 standards. Guangdong Quality Inspection Institute integrates inspection and testing, certification,

appraisal, proficiency testing provider, standard formulation and revision, and scientific research, committed to building an internationally advanced, domestically first-class, and highly respected authoritative technical institution in society and industry.

Guangdong Quality Inspection Institute currently has 10 National Product Quality Inspection and Testing Centers, 16 Provincial Product Quality Supervision and Inspection Stations, and 7 Guangdong Provincial Engineering Technology Research Centers, which are:

□ National Electrical Product Safety Quality Inspection and Testing Center □ National Furniture Product Quality Inspection and Testing Center (Guangdong) □ National Coating Product Quality Inspection and Testing Center (Guangdong) □ National Smart Grid Transmission and Distribution Equipment Quality Inspection and Testing Center (Guangdong) □ National Mechanical Product Safety Quality Inspection and Testing Center □ National Fire Product Quality Inspection and Testing Center (Guangdong) □ National Solar Photovoltaic Product Quality Inspection and Testing Center (Guangdong) □ National Wire and Cable Product Quality Inspection and Testing Center (Guangdong) □ National Industrial Robot Quality Inspection and Testing Center (Guangdong) □ National Wire and Cable Product Quality Inspection and Testing Center (Guangdong) ☆ Guangdong Provincial Quality Supervision Transformer Product Inspection Station (Dongguan) ☆ Guangdong Provincial Quality Supervision Children's Toy Inspection Station ☆ Guangdong Provincial Quality Supervision Industrial Robot Inspection Station (Shunde) ☆ Guangdong Provincial Quality Supervision Household Air Conditioner Inspection Station (Shunde) ☆ Guangdong Provincial Quality Supervision Wearable Smart Product Inspection Station (Guangzhou) ☆ Guangdong Provincial Quality Supervision Genetically Modified Food and Food Toxic Substances Inspection Station ☆ Guangdong Provincial Quality Supervision Transportation Communication Product Inspection Station (Guangzhou) ☆ Guangdong Provincial Quality Supervision Battery Inspection Station ☆ Guangdong Provincial Quality Supervision 3D Printing and Nanomaterials Inspection Station (Shunde) ☆ Guangdong Provincial Quality Supervision Electric Bicycle Inspection Station ☆ Guangdong Provincial Quality Supervision New Energy Vehicle Charging Equipment and Power Battery Inspection Station (Guangzhou) ☆ Guangdong Provincial Quality Supervision Textile Product Inspection Station ☆ Guangdong Provincial Quality Supervision Ultra HD Display Product Inspection Station (Guangzhou) ☆ Guangdong Provincial Quality Supervision High Voltage Transmission and Distribution Equipment Inspection Station ☆ Guangdong Provincial Quality Supervision Children's Products Inspection Station (Guangzhou) ☆ Guangdong Provincial Quality Supervision Gold, Silver, Jewelry and Jade Inspection Station ○ Guangdong Provincial Power Transformer and Switchgear Testing (Guang'an) Engineering Technology Research Center ○ Guangdong Provincial Special Wire and Cable Product Testing Engineering Technology Research Center ○ Guangdong Provincial Smart LED Lighting Testing Engineering Technology Research Center ○ Guangdong Provincial Polymer Material Failure Analysis Engineering Technology Research Center ○ Guangdong Provincial Wood Identification and Appraisal Engineering Technology Research Center ○ Guangdong Provincial Safety Emulsifier Research, Application and Testing Engineering Technology Research Center ○ Guangdong Provincial Food Biological Hazard Factors Monitoring Engineering Technology Research Center

