Miami-Dade County, Florida
DEPARTMENT OF REGULATORY AND ECONMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISON
PRODUCT CONTROL SECTION
11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
T (786) 315-2590 Fax (786) 315-2599

Laboratory Certificate

MIAMI-DADE COUNTY APPROVED

This certifies that Quast Consulting & Testing, Inc.located at 1055 Indianhead Dr., Mosinee, WI 54455 is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS301-94, and is Certified to perform the following tests:

TAS100(A)
TAS201 (Exclude CBS Block Testing)
TAS202 (Exclude CBS Block Testing)
TAS203 (Exclude CBS Block Testing)
ASTM E1886
ASTM E1996
ASTM E2068
IAS Accreditation Report No.TL-358

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

Brian M. Sasman, P.E.; Arlen Joseph Fisher, P.E.

This Certification and Registration Approved: **August 15, 2024**
This Certification and Registration Expires : **July 08, 2029**

Certification No. : **24-0729.02** *Revises: 24-0620.01*

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
Product Control Division

Americo Segura, M.S., CGC
Quality Assurance Unit Supervisor
Product Control Division

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.

CERTIFICATE OF ACCREDITATION

This is to attest that

QUAST CONSULTING AND TESTING, INC.

1055 INDIANHEAD DRIVE
MOSINEE, WISCONSIN 54455, U.S.A.

Testing Laboratory TL-358

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date March 5, 2024

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

QUAST CONSULTING AND TESTING, INC.

www.qcandt.com

Contact Name Brian M. Sasman **Contact Phone** +715 693-8378

Accredited to ISO/IEC 17025:2017 *Effective Date March 5, 2024*

Structural	
10 CFR Part 431, Subpart R, Appendix A	Uniform Test Method for the Measurement of Energy Consumption of the Components of Envelopes of Walk-In Coolers and Walk-In Freezers
AAMA 450	Voluntary Performance Rating Method for Mulled Fenestration Assemblies
AAMA 501.1	Standard test method for water penetration of windows, curtain walls and doors using dynamic pressure
AAMA 501.2	Quality assurance and diagnostic water leakage field check of installed storefronts, curtain walls and sloped glazing systems
AAMA 501.4	Recommended Static Test Method for Evaluating Window Wall, Curtain Wall and Storefront Systems Subjected to Seismic and Wind-Induced Inter-Story Drift
AAMA 501.5	Test method for thermal cycling of exterior walls
AAMA 501.7	Recommended static test method for evaluating windows, window wall, curtain wall and storefront systems subjected to vertical inter-story movements
AAMA 502	Voluntary specification for field testing of newly installed fenestration products
AAMA 503	Voluntary specification for field testing of newly installed storefronts, curtain walls, and sloped glazing systems.
AAMA 513	Standard Laboratory Test Method for Determination of Forces and Motions Required to Activate Operable Parts in Operable Windows and Doors in Accessible Spaces
AAMA 520	Voluntary specification for rating the severe wind-driven rain resistance of windows, doors and unit skylights
AAMA 910	Voluntary "life cycle" specifications and test methods for AW class architectural windows and doors
AAMA 1304	Voluntary specification for forced entry resistance of side-hinged door systems
AAMA 1503	Voluntary test method for thermal transmittance and condensation resistance of windows, doors and glazed wall sections
AAMA 1701.2	Voluntary standard for utilization in manufactured housing for primary windows and sliding glass doors

AAMA 1702.2	Voluntary standard for utilization in manufactured housing for swinging exterior passage doors
AAMA 1704	Voluntary standard egress window systems for utilization in manufactured housing
AAMA/WDMA/CSA 101/I.S.2/A440	North American Fenestration Standard/Specification for windows, doors, and skylights
AMCA 540	Test Method for Louvers Impacted by Wind Borne Debris
AMCA 550	Test Method for High Velocity Wind Driven Rain Resistant Louvers
ANSI/DASMA 108	Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference
ANSI/DASMA 115	Standard Method for Testing Sectional Doors, Rolling Doors and Flexible Doors: Determination of Structural Performance Under Missile Impact and Cyclic Pressure
ANSI/NFRC 100	Procedure for Determining Fenestration Product U-Factors
ANSI/NFRC 200	Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
ANSI/NFRC 500	Procedure for Determining Fenestration Product Condensation Resistance Values
ANSI SAE Z26.1	American National Standard for Safety Glazing Materials for Glazing Motor Vehicles and Motor Vehicle Equipment Operating on Land Highways - Safety Standard only Sections 5.6, 5.7, 5.8, 5.12, 5.13, 5.14, 5.26, 5.29
ASTM C1060	Standard Practice for Thermographic Inspection of Insulation Installations in Envelope Cavities of Frame Buildings
ASTM C1199	Standard test method for measuring the steady state thermal transmittance of fenestration systems using hot box methods
ASTM C1363	Standard test method for thermal performance of building material and envelope assemblies by means of a hot box apparatus
ASTM C1521	Standard Practice for Evaluating Adhesion of installed Weatherproofing Sealant Joints
ASTM D4541	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
ASTM D7877	Standard Guide for Electronic Methods for Detecting and Locating Leaks in Waterproof Membranes
ASTM D8231	Standard Practice for the Use of a Low Voltage Electronic Scanning System for Detecting and Locating Breaches in Roofing and Waterproofing Membranes

ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
ASTM E283	Standard test method for determining rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen
ASTM E330	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E331	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by uniform static air pressure difference
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference
ASTM E661	Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads
ASTM E779	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization
ASTM E783	Standard test method for field measurement of air leakage through installed exterior windows and doors
ASTM E907	Standard Test Method for Field Testing Uplift Resistance of Adhered Membrane Roofing Systems
ASTM E935	Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings
ASTM E987	Standard test methods for deglazing force of fenestration products
ASTM E1105	Standard test method for field determination of water penetration of installed exterior windows, skylights, doors, and curtain walls, by uniform or cyclic static air pressure difference
ASTM E1186	Standard practices for air leakage site detection in building envelopes and air barrier systems
ASTM E1423	Standard practice for determining steady state thermal transmittance of fenestration systems
ASTM E1748	Standard Test Method for Evaluating the Engagement Between Windows and Insect Screens as an Integral System
ASTM E1886	Standard test method for performance of exterior windows, curtain walls, doors, and impact protective systems impacted by missile(s) and exposed to cyclic pressure differentials
ASTM E1996	Standard specification for performance of exterior windows, curtain walls, doors, and impact protective systems impacted by windborne debris in hurricanes
ASTM E2068	Standard test method for determination of operating force of sliding windows and doors

ASTM E2268	Standard test method for water penetration of exterior windows, skylights, and doors by rapid pulsed air pressure difference
ASTM E2353	Standard Test Methods for Performance of Glazing in Permanent Railing Systems, Guards, and Balustrades
ASTM E2357	Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies
ASTM F588	Standard test methods for measuring the forced entry resistance of window assemblies, excluding glazing impact
ASTM F842	Standard test methods for measuring the forced entry resistance of sliding door assemblies, excluding glazing impact
ASTM F2006	Standard Safety Specification for Window Fall Prevention Devices for Non-Emergency Escape (Egress) and Rescue (Ingress) Windows
ASTM F2090	Standard Specification for Window Fall Prevention Devices With Emergency Escape (Egress) Release Mechanisms
CSA A440-S1	American fenestration standard/specification for windows, doors, and skylights
FM Global 1-52	Property Loss Data Sheets: Field Verification of Roof Wind Uplift Resistance
ICC 500	ICC/NSSA Standard for the Design and Construction of Storm Shelters, Test Methods for Impact and Pressure Testing, chapter 8 only
NFRC 102	Procedure for measuring the steady-state thermal transmittance of fenestration systems
NHTSA / FMVSS 49 CFR 571.217 Standard No. 217	Bus Emergency Exits and Window Retention and Release
TAS 100A	Testing Application Standard (TAS) No. 100(A)-95 Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge area
TAS 201	Impact test procedures
TAS 202	Criteria for testing impact & nonimpact resistant building envelope components using uniform static air pressure
TAS 203	Criteria for testing products subject to cyclic wind pressure loading
WDMA 1.S.11	Industrial Standard for Analytical Method for Design Pressure (DP) Rating of Fenestration Products

AAMA: American Architectural Manufacturers Association

CSA: Canadian Standards Association

TAS: Testing Application Standards (Miami-Dade County Protocol)

WDMA: Window and Door Manufacturer Association