



CERTIFICATE OF ACCREDITATION

This is to attest that

QAI LABORATORIES, INC.

8148 NORTHWEST 74 AVENUE
MEDLEY, FLORIDA 33166, U.S.A.

Testing Laboratory TL-948

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 January 26, 2023



A handwritten signature in black ink, reading "Raj Nathan".

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

QAI LABORATORIES, INC.

www.QAI.org

Contact Name Jarred Johnson

Contact Phone +1-918-4378333

Accredited to ISO/IEC 17025:2017

Effective Date January 26, 2023

Fire	
ASTM D4804	Standard Test Method for Determining the Flammability Characteristics of Nonrigid Solid Plastics
ASTM E119	Standard Test Methods for Fire Tests of Building Construction and Materials
CAN/ULC S101	Standard Methods of Fire Endurance Tests of Building Construction and Materials
CAN/ULC S104	Standard Method for Fire Tests of Door Assemblies
CAN/ULC S105	Standard Specification for Fire Door Frames Meeting the Performance Required by CAN/ULC-S104
NFPA 252	Fire Tests of Door Assemblies
UL 10B	Fire Tests of Door Assemblies
UL 10C	Positive Pressure Fire Tests of Door Assemblies
UL 790	Standard Test Methods for Fire Tests of Roof Coverings
Physical	
ASTM B557	Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products
ASTM C1363	Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus
ASTM D790	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
ASTM D4501	Standard Test Method for Shear Strength of Adhesive Bonds Between Rigid Substrates by the Block-Shear Method
ASTM E8/E8M	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E108	Standard Test Methods for Fire Tests of Roof Coverings
ASTM E935	Standard Test Methods For Performance Of Permanent Metal Railing Systems And Rails For Buildings

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ASTM E985	Standard Specification for Permanent Metal Railing Systems and Rails for Buildings (applicable standard ASTM 935)
FBC Section 1625	High-Velocity Hurricane Zones— Load Tests
FBC Section 1626	High-Velocity Hurricane Zones— Impact Tests for Wind-Borne Debris
FEMA 361	Safe Rooms for Tornadoes and Hurricanes
TAS 114	Test Procedures For Roof System Assemblies In The High Velocity Hurricane Zone Jurisdiction (Appendix J only)
UL 580	Tests for Uplift Resistance of Roof Assemblies
Building Envelope & Fenestration	
AAMA-1304	Voluntary Specification for Determining Forced Entry Resistance of Side-Hinged Door Systems
AAMA 501.1	Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure
AAMA 501.4	Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drifts
AAMA 501.5	Test Method for Thermal Cycling of Exterior Walls
AAMA 501.6	Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drifts
AAMA 501.7	Recommended Static Test Method for Evaluating Windows, Window Wall, Curtain Wall and Storefront Systems Subjected to Vertical Inter-Story Movements
AAMA 501.8	Standard Test Method for Determination of Resistance to Human Impact of Window Systems Intended for Use in Psychiatric Applications
AAMA 506	Voluntary Specification for Impact and Cycle Testing of Fenestration Products
AAMA 901	Voluntary Specification for Rotary & Linear Operators in Window Applications
AAMA 902	Voluntary Specification for Sash Balances
AAMA 906	Voluntary Specification for Sliding Door and Lift and Slide Roller Assemblies
AAMA 907	Voluntary Specification for Corrosion Resistant Coatings on Carbon Steel Components Used in Windows, Doors and Skylights
AAMA 1503	Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections
AAMA/WDMA/CSA 101/I.S.2 A440	North American Fenestration Standard/ Specification for windows, doors, and skylights
ANSI Z97.1	For safety glazing materials used in buildings - safety performance specifications and methods of test (Section 5.1, 5.2 and 5.3.2 only)

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ASTM E283	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, 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 E546	Standard Test Method for Frost/Dew Point of Sealed Insulating Glass Units
ASTM E547	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference
ASTM E576	Standard Test Method for Frost/Dew Point of Sealed Insulating Glass Units in the Vertical Position
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 E2188	Standard Test Method for Insulating Glass Unit Performance
ASTM E2189	Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units
ASTM E2190	Standard Specification for Insulating Glass Unit Performance and Evaluation
ASTM E2649	Standard Test Method for Determining Argon Concentration in Sealed Insulating Glass Units Using Spark Emission Spectroscopy
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
CAN/CGSB12.1-2017	Safety glazing
CPSC 16 CFR 1201	Safety Standard for Architectural Glazing Materials
DASMA 105	Test Method for Thermal Transmittance and Air Infiltration of Garage Doors
DASMA 107	Room Fire Test Standard for Garage Doors Using Foam Plastic Insulation

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DASMA 108	Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference
DASMA 115	Standard Method for Testing Sectional Garage Doors: Determination of Structural Performance Under Missile Impact and Cyclic Wind Pressure
ICC 500	Standards for the Design and Construction of Storm Shelters
NFRC 100	Procedure for Determining Fenestration Product U-Factors
NFRC 200	Determining Fenestration Product Solar Heat Gain Coefficient
TAS 201	Florida Building Code — Test Protocols HVHZ - Impact Test Procedures
TAS 202	Florida Building Code — Test Protocols HVHZ - Criteria for Testing Impact and Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure
TAS 203	Florida Building Code — Test Protocols HVHZ - Criteria for Testing Products Subject To Cyclic Wind Pressure Loading
Acoustical	
AAMA 1801	Voluntary Specification for the Acoustical Rating of Exterior Windows, Doors, Skylights and Glazed Wall Sections
ASTM E90	Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
ASTM E413	Classification for Rating Sound Insulation
ASTM E1332	Standard Classification for Rating Outdoor-Indoor Sound Attenuation
ASTM E1425	Standard Practice for Determining the Acoustical Performance of Windows, Doors, Skylight, and Glazed Wall Systems
ASTM E2141	Standard Test Method for Accelerated Aging of Electrochromic Devices in Sealed Insulating Glass Units
ASTM E2235	Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods
ASTM E2953	Standard Specification for Evaluating Accelerated Aging Performance of Electrochromic Devices in Sealed Insulating Glass Units

AAMA: American Architectural Manufacturers Association

AAMA/WDMA/CSA: Joint publication by American Architectural Manufacturers Association (AAMA), the Window & Door Manufacturers Association (WDMA), and CSA Group.

ASTM: ASTM International

CGSB: Canadian General Standards Board

CPSC: Consumer Product Safety Commission