

**Miami-Dade County, Florida**

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

BOARD AND CODE ADMINISTRATION DIVISION

PRODUCT CONTROL SECTION

**Laboratory Certificate**



11805 S.W. 26 Street-Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 Fax (786) 315-2599

This certifies that QAI Laboratories, Inc. located at 8148 NW74 Avenue, Medley, FL 33166 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	TAS202	ASTM D1761	ASTM E754	ASTM F588
TAS100(A)	TAS203	ASTM D1929	ASTM E783	ASTM F606
TAS101	ASTM B117	ASTM D2843	ASTM E894	ASTM E529
TAS102	ASTM B368	ASTM D3462	ASTM E935	ASTM G85
TAS102(A)	ASTM C39	ASTM D7147	ASTM E987	ASTM G155
TAS105	ASTM C42	ASTM E8	ASTM E1105	ASTM F842
TAS106	ASTM C140	ASTM E70	ASTM E1592	AAMA 103.3-89 Sec. 5
TAS107	ASTM C158	ASTM E72	ASTM E1646	AAMA 902-92
TAS123	ASTM C1167	ASTM E108	ASTM E1680	AAMA 906.3-05
TAS125	ASTM D635	ASTM E488	ASTM E935	AAMA 1302.5
TAS102(A)	ASTM B368	ASTM D7147	ASTM E754	AAMA 1303.05
TAS201	ASTM D897	ASTM E136	ASTM E1886	ANSI/SMA 6001
ANSI Z97.1 (Impact/CPSC 16 CFR1201)				
IAS Certificate NO. TL- 948				

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.

Jorge Alberto Causo, P.E., Idalmis Ortega, P.E., Marlin Brinson, P.E.

***This Certification and Registration Approved: February 24, 2022***

***This Certification and Registration Expires : August 17, 2026***

***Certification No. : 22-0203.01 Revises: 21-0617.03***

A handwritten signature in blue ink, appearing to read "Helmy A. Makar".

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

A handwritten signature in blue ink, appearing to read "Americo Segura".

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

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.



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# 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 27, 2022



A handwritten signature in black ink, reading "Raj Nathan". The signature is written in a cursive style with a horizontal line underneath.

**President**

Visit [www.iasonline.org](http://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](http://www.iasonline.org)

## QAI LABORATORIES, INC.

[www. QAI.org](http://www.QAI.org)

**Contact Name** Jarred Johnson

**Contact Phone** +1-918-4378333

*Accredited to ISO/IEC 17025:2017*

*Effective Date January 27, 2022*

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
<b>Building Envelope &amp; Fenestration</b>	
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 E90	Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
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 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

*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*

*WDMA: Window and Door Manufacturer Association*