

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 UL LLC located at 750 Anthony Trail, Northbrook, IL 60062 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:

TAS201
TAS202
TAS203
International Accreditation Service, Inc.
No. TL-714

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:

Alexis Spyrou, P.E.

This Certification and Registration Approved: June 3, 2021
This Certification and Registration Expires : June 10, 2026

Certification No. : 21-0520.01 Renews: 18-0213.13

A blue ink signature of Helmy A. Makar, written in a cursive style.

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

A blue ink signature of Americo Segura, written in a cursive style.

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

UL LLC

750 ANTHONY TRAIL
NORTHBROOK, ILLINOIS 60062, U.S.A.

Testing Laboratory TL-714

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 October 23, 2020



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

UL LLC

www.ul.com

Contact Name Derek Cavataio

Contact Phone +1-847-664-6732

Accredited to ISO/IEC 17025:2017

Effective Date October 23, 2020

Structural	
AAMA 450	Voluntary Performance Rating Method For Mulled Fenestration Assemblies
AAMA 501	Methods of Test For Exterior Walls
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 Curtain Wall And Storefront Systems Subjected To Seismic And Wind Induced Inter-story Drifts
AAMA 501.5	Test Method For Thermal Cycling Of Exterior Walls
AAMA 501.6	Recommended Dynamic Test Method For Determining The Seismic Drift Causing Glass Fallout From A Wall System
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 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 506	Voluntary Specifications For Impact And Cycle Testing Of Fenestration Products (used with ASTM E1886 and E1996)
AAMA 508	Voluntary Test Method And Specification For Pressure Equalized Rain Screen Wall Cladding Systems
AAMA 511	Voluntary Guideline For Forensic Water Penetration Testing Of Fenestration Products
AAMA 910	Voluntary 'Life Cycle' Specifications And Test Methods For Aw Class Architectural Windows And Doors

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AAMA 920	Specification For Operating Cycle Performance Of Active Side-Hinged Exterior Door Slabs
AAMA 925	Specification For Determining The Vertical Loading Resistance Of Side-hinged Door Leaves
AAMA 1002.10	Aluminum Insulating Products for Windows and Sliding Glass Doors
AAMA 1102	Voluntary Specification For Side-Hinged Secondary Storm Doors
AAMA 1102.7	Voluntary Specifications for Aluminum Storm Doors
AAMA 1302	Atrium Windows and Doors
AAMA 1303	Voluntary Specifications For Forced-entry Resistant Aluminum Sliding Glass Doors
AAMA 1304	Voluntary Specification For Forced Entry Resistance Of Side-hinged Door Systems
AAMA 1600	Voluntary Specification For Skylights
AAMA 1605.1	Windows Mullions and Skylights
AAMA 1606	Voluntary uniform load structural standard for plastic domed skylights
AAMA 1701.2	Voluntary standard primary window & sliding glass door for utilization in manufactured housing
AAMA 1702.2	Voluntary standard primary window & sliding glass door for utilization in manufactured housing
AAMA 2502	Comparative Analysis Procedure For Window And Door Products
AAMA/NPEA/NSA 2100	Specifications for sunrooms
AAMA/WDMA/CSA 101/1.S.2/A440-05	North American Fenestration Standard/Specification for windows, doors, and skylights
AAMA/WDMA/CSA 101/1.S.2/A440-08	North American Fenestration Standard/Specification for windows, doors, and skylights
AAMA/WDMA/CSA 101/1.S.2/A440-11	North American Fenestration Standard/Specification for windows, doors, and skylights
AAMA/WDMA/CSA 101/1.S.2/A440-17	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/AAMA 101	North American Fenestration Standard/Specification for windows, doors, and skylights

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ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction (Transverse and Racking loads, Sections 11,12,14,15)
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 E783	Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors
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 E1424	Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure and Temperature Differences Across the Specimen
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 (Method B only)
ASTM E2357	Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
ASTM F476	Standard Test Methods for Security of Swinging Door 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
DASMA 108	Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance under Uniform Static Air Pressure Difference

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DASMA 115	Standard Method for Testing Sectional Doors, Rolling Doors, and Flexible Doors: Determination of Structural Performance under Missile Impact and Cyclic Wind Pressure
ICC 500	ICC/NSSA Standard for the Design and Construction of Storm Shelters
NAFS	North American fenestration standard/specification for windows, doors, and skylights
SMA 6001	Specifications For Metal Protection Screens
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 TM-7	Cycle – Slam, Test Method for Determining the Physical Endurance of Wood Doors & Associated Hardware Connections under Accelerated Operating Conditions
Thermal Transmittance	
AAMA 1503	Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections
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 Materials and Envelope Assemblies by Means of a Hot Box Apparatus
ASTM E1423	Standard Practice for Determining Steady State Thermal Transmittance of Fenestration Systems
DASMA 105	Test Method for Thermal Transmittance and Air Infiltration of Garage Doors
NFRC 102	Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems

AMCA: Air Movement and Control Association International, Inc.

SMA: Screen Manufacturers Association

TAS: Florida Building Code – Testing Application Standard