

Laboratory Certificate



Miami-Dade County, Florida
Department of Regulatory and Economic Resources
Board and Code Administration Division
Product Control Section
11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
T (786) 315-2590 Fax (786) 315-2599

This certifies that UL Laboratory Canada, Inc. located at 1320 Lionel-Boulet Boulevard, Varennes, QC J3X 1P7 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
IAS Accreditation Report No. TL-851

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: February 22, 2024

This Certification and Registration Expires : February 7, 2029

Certification No. : 24-0126.01 Renews: 23-0126.02

A blue ink signature of Helmy A. Makar.

*Helmy A. Makar, P.E., MS
Product Control Section Supervisor
Product Control Section*

A blue ink signature of 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

UL LABORATORY CANADA INC.

1320 LIONEL-BOULET BOULEVARD
VARENNES, QUEBEC J3X 1P7, CANADA

Testing Laboratory TL-851

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 June 13, 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

UL LABORATORY CANADA INC.

www.ul.com/building-envelope

Contact Name Gunsimar Paintal

Contact Phone +1-416-288-2217

Accredited to ISO/IEC 17025:2017

Effective Date June 13, 2023

Physical Testing	
AAMA 450	Voluntary Performance Rating Method for Mulled Fenestration Assemblies
AAMA 501	Method of Test for Metal Curtain Walls. (Only Sections 501.1, 501.2, 501.3, 501.4, 501.5, 501.6, 501.7 and 501.8)
AAMA 502	Voluntary Specification for Field Testing of Windows and Sliding Glass Doors
AAMA 503	Voluntary Specification for Field Testing of Storefronts, Curtain Walls and Sloped Glazing Systems
AAMA 506	Voluntary Specifications for Impact and Cycle testing of Fenestration Products
AAMA 508	Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems
AAMA 509	Voluntary test and classification method for drained and back ventilated rain screen wall cladding systems
AAMA 513	Standard Laboratory Test Method for Determination of Forces and Motions Required to Activate Operable Parts of Operable Windows and Doors in Accessible Spaces
AAMA 901	Voluntary Specifications for Rotary & Linear Operators in Window Applications
AAMA 902	Voluntary Specification for Sash Balances
AAMA 904	Voluntary Specification for Multi-Bar Hinges in Window Applications
AAMA 906	Voluntary Specification for Sliding Door and Lift and Slide Roller Assemblies
AAMA 910	Voluntary "Life Cycle" Specifications and Test Methods for Architectural Windows and Doors
AAMA 920	Specification for Operating Cycle Performance of Side-Hinged Exterior Door Systems
AAMA 925	Specification Determining the Vertical Loading Resistance of Side-Hinged Door Leaves

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AAMA 930	Voluntary Specification for the Water Penetration Resistance and Structural Load Performance of Locking/Latching Hardware Used in Side-Hinged Door System
AAMA 1304	Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems
AAMA 1701.1	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/WDMA/CSA 101/I.S.2/A440	Standard/Specification windows, doors, and unit skylights (Except for: Materials and component requirements)
AAMA/WDMA/CSA 101/I.S.2/A440S1	Canadian Supplement to AAMA/WDMA/CSA/ 101/I.S.2/A440
AAMA/NWWDA 101/I.S.2-97	Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors
ANSI Z97.1	American National Standard for safety glazing materials used in buildings (only Sections 5.1 and 5.2)
ANSI/BHMA A156.1	American National Standard for Butts and Hinges
ANSI/DASMA 108	Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference
ANSI/SDI A250.4-201	Test Procedure and Acceptance Criteria for- Physical Endurance for Steel Doors, frames and Frame Anchors
ASTM C1153	Standard Practice for Location of Wet Insulation in Roofing Systems Using Infrared Imaging
ASTM D3161	Standard test method for wind resistance of steep slope roofing products (fan-induced method)
ASTM D5206	Standard test method for wind load resistance of rigid plastic siding
ASTM E283	Standard Test Method for Determining the 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, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
ASTM E331	Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Static Air Pressure Difference
ASTM E405	Standard Test Methods for Wear Testing Rotary Operators for Windows

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ASTM E547	Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Air Pressure Differential
ASTM E576	Standard Test Method for Frost/Dew Point of Sealed Insulated Glass Units in the Vertical Position
ASTM E779	Standard Practice 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 E935	Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings
ASTM E96	Standard Test Methods for Water Vapor Transmission of Materials
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, Curtain Walls, and Doors by Uniform or Cyclic Static Air Pressure Difference
ASTM E1186	Standard Practice for Air Leakage Site Detection in Building Envelopes and Air Barrier Systems
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 Methods for Determination of Operating Force of Sliding Windows and Doors
ASTM E2178	Standard Test Method for Air Permeance of Building Materials
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 (except Glazing Impact)
ASTM F842	Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies (Except Glazing Impact)
CSA A500	Building Guards (Only No.5 Testing)
CAN/CSA A123.24-15	Standard test method for wind resistance of modular vegetated roof assembly
CAN/CSA A440	Windows (only Sections 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 11.10, 11.11, 11.12, 11.13 and 11.14)

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CAN/CGSB 63.14-M89	Plastic Skylights (only Sections 7.2.3, 7.2.4 and 7.2.5)
CAN/CGSB 82.1-M89	Sliding Doors (only Sections 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9 and 7.10)
CAN/CGSB 149.10 [M86]	Determination of the Airtightness of Building Envelopes by the Fan Depressurization Method
CAN/ULC S741	Standard for Air Barrier Materials – Specification
CAN/ULC S742	Standard for Air Barrier Assemblies – Specification
CAN2-12.1-M	Glass, Safety, Tempered or Laminated
ICC AC17	Acceptance Criteria for Glass Glazed Unit Skylights and Sloped Glass Glazing (AC17) - Part A
NFRC 400	Procedure for Determining Fenestration Product Air Leakage
NFRC 500	Procedure for Determining Fenestration Product Condensation Resistance Values
TAS 201-94	Impact Test Procedures
TAS 202-94	Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components using Uniform Static Air Pressure
TAS 203-94	Criteria for Testing Products Subject to Cyclic Wind Pressure Loading
WDMA T.M.-7	Test Method for Determining the Physical Endurance of Wood Doors & Associated Hardware Connections under Operating Conditions
Thermal Transmittance	
AAMA 1503	Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections
AAMA 1506	Voluntary Test Method for Laboratory Heat Build-Up Effects on Fenestration Products
ANSI/DASMA 105	Test Method for Thermal Transmittance and Air Infiltration of Garage Doors
ASTM C518	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus. Only for: measurements of specimens of thermal insulation without any metal, foil-covered or dense plastic facers.
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 the Thermal Performance of Building Assembly by means of a Hot Box Apparatus

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ASTM C1371	Standard Test Method for Determination of Emittance of Materials Near Room Temperature using Portable Emissometers
ASTM D4803	Standard Test Method for Predicting Heat Buildup in PVC Building Products
ASTM E1423	Standard Practice for Determining Steady State Thermal transmittance of fenestration Systems
CAN/ULC S-770	Standard Test Method for Determination of Long-term thermal Resistance of Closed-Cell Thermal insulating Foams
CAN/CSA A440.2	Energy Performance of Windows and other Fenestration Systems [Exclude: (SHGR measurement) NFRC 201; (Visible Transmittance) NFRC 202]
NFRC 100	Procedure for Determining Fenestration Product U-Factors
NFRC 101	Procedure for Determining Thermophysical Properties of Materials for Use in NFRC-Approved Software Programs
NFRC 102	Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems
NFRC 200	Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence

AAMA: American Architectural Manufacturers Association

ANSI: American National Standards institute, Inc.

ASTM: American Society for Testing and Materials

BHMA: Builders Hardware Manufacturers Association

CAN/CGSB: Canadian Test Method from the Canadian General Standard Board

CAN: Canadian Test Method

CAN/CSA: Canadian Test Method from the Canadian Standard Association

CAN/ULC: Canadian Test Method from the Canadian Underwriters Laboratory

CGSB: Canadian General Standard Board

CSA: Canadian Standard Association

DASMA: Door & Access Systems Manufacturers' Association, International

ICC: International Code Council

NWWDA: National Wood Window & Door Association

SDI: Steel Door Institute

WDMA: Windows & Doors Manufacturing Association