



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NATIONAL CERTIFIED TESTING LABORATORIES, INC. (NCTL-YORK)

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MECHANICAL

Valid To: June 30, 2024

Certificate Number: 3054.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on assembled windows, doors, skylights and curtain walls:

Test:	Test Method(s):
Thermal:	
Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods	ASTM C1199
Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus	ASTM C1363
Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections	AAMA 1503
National Fenestration Rating Council (NFRC) Procedure for Measuring the Steady State Thermal Transmittance of Fenestration System	NFRC 102
Air:	
Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	ASTM E283 ¹
Water:	
Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference	ASTM E331 ¹
Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential	ASTM E547 ¹
Structural Loads:	
Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference	ASTM E330 ¹
Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Cyclic Air Pressure Differential	ASTM E1233

<u>Test:</u>	<u>Test Method(s):</u>
Structural Loads (continued):	
Standard Method of Determining Structural Performance Ratings of Side-Hinged Exterior Door Systems and Procedures for Component Substitution	ANSI/WMA 100
Air/Water/Structural:	
Standard/Specification for Windows, Doors and Unit Skylights	AAMA/WDMA/CSA101/I.S.2/A440-05 ^{1,2,3}
North American Fenestration Standard (NAFS)/Specification for Windows, Doors and Skylights	AAMA/WDMA/CSA101/I.S.2/A440-08 ^{1,2,3} , -11, -17 ^{1,2} (excluding section 9.3.6.2)
Forced Entry:	
Forced Entry Resistance Windows	ASTM F588 ¹
Forced Entry Resistance Doors	ASTM F842 ¹
Security of Swinging Door Assemblies: Door Impact Test Hinge Impact Test	ASTM F476 (Section 17) ASTM F476 (Section 18)
Forced Entry Resistance of Side-Hinged Door Systems	AAMA 1304
Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanism	ASTM F2090
Mullion:	
Performance Rating Method for Mullled Fenestration Assemblies	AAMA 450
Ancillary:	
Deglazing Force of Fenestration Products	ASTM E987 ¹ (Method A)
Operating Force of Sliding Windows and Doors	ASTM E2068 ¹ (Method B)
Life Cycle:	
“Life Cycle” Specifications and Test Methods for Arch Grade Windows and Sliding Glass Doors	AAMA 910-93 ³ , -10
Voluntary Specification for Sliding Door and Lift and Slide Roller Assemblies	AAMA 906-15
Curtain Wall:	
Static Testing Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drift	AAMA 501.4 ¹
Methods of Tests for Exterior Walls	AAMA 501.X ^{1,2}
Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure	AAMA 501.1 ¹
Thermal Cycling of Exterior Walls	AAMA 501.5 ¹

<u>Test:</u>	<u>Test Method(s):</u>
Field/Curtain Wall – On-Site:	
Specifications for Field Testing of Windows and Sliding Glass Doors	AAMA 502 ^{1,2}
<u>Air:</u>	
Field Measurement of Air Leakage Through Installed Exterior Windows and Doors	ASTM E783 ¹
<u>Water:</u>	
Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors and Curtain Walls by Uniform or Cyclic Static Air Pressure Difference	ASTM E1105 ¹
Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls and Sloped Glazing Systems	AAMA 501.2 ^{1,2}
Forensic Water Penetration Testing of Fenestration	AAMA 511-08 ¹
Field Testing of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems	AAMA 503-08 ^{1,2}
Manufactured Housing:	
Primary Window and Sliding Glass Door Standard for Utilization in Manufactured Housing	AAMA 1701.2 ²
Primary Swinging Exterior Passage Doors for Utilization in Manufactured Housing	AAMA 1702.2 ²
Security Screen:	
Specification for Metal Protection Screens	SMA 6001
Impact/Cycling:	
Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials	ASTM E1886-02 ³ , -05 ³ , -13
Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes	ASTM E1996-02 ^{2,3} , -05 ^{2,3} , -06 ^{2,3} , -09 ^{2,3} , -12 ² , -14 ²
Impact Test Procedures	TAS 201
Criteria for Testing Impact and Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure	TAS 202
Criteria for Testing Products Subject To Cyclic Wind Pressure Loading	TAS 203
Doors:	
Operating Cycle Performance of Side-Hinged Exterior Door Systems	AAMA 920

<u>Test:</u>	<u>Test Method(s):</u>
Doors (continued):	
Vertical Loading Resistance of Side-Hinged Door Leaves	AAMA 925
Specifications for Insulating Storm Products for Windows and Sliding Glass Doors	AAMA 1002 ²
Specifications for Aluminum Storm Doors	AAMA 1102 ²
Sealed Insulating Glass:	
Insulating Glass Unit Performance and Evaluation	ASTM E2190 ²
Insulating Glass Unit Performance	ASTM E2188
Testing Resistance to Fogging in Insulating Glass Units	ASTM E2189
Standard Test Method for Determining Argon Concentration in Sealed Insulating Glass Units Using Spark Emission Spectroscopy	ASTM E2649
Frost Point of Sealed Insulating Glass Units	ASTM E546
Safety Glazing:	
American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test	ANSI Z97.1 (Impact, Boil and Center Punch Only)
Chapter II - Consumer Product Safety Commission, Part 1201 - Safety Standard for Architectural Glazing Materials	16 CFR 1201 (Impact, Boil and Center Punch Only)
Tempered or Laminated Safety Glass	CAN/CGSB 12.1-M90-17 (Impact, Boil and Center Punch Only)
Railing Testing:	
Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings	ASTM E935
Standard Test Methods for Performance of Glass in Permanent Glass Railing Systems, Guards and Balustrades	ASTM E2353

¹ This laboratory performs field testing activities for these tests.

² This specification is not an accredited test and the inclusion of this specification on this Scope does not confer laboratory accreditation to the specification nor does it confer accreditation for the test method(s) embedded within the specification, unless listed above. The accredited test methods listed on this scope are used in determining compliance with this specification.

³ This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



Accredited Laboratory

A2LA has accredited

NATIONAL CERTIFIED TESTING LABORATORIES, INC. (NCTL-YORK)

York, PA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 19th day of July 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3054.01
Valid to June 30, 2024

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.