



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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

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MECHANICAL

Valid To: June 30, 2024

Certificate Number: 3054.03

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:

<u>Test:</u>	<u>Test Method(s):</u>
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
National Fenestration Rating Council Incorporated (NFRC) Procedure for Determining Fenestration Product Air Leakage	NFRC 400

<u>Test:</u>	<u>Test Method(s):</u>
Water	
Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference	ASTM E331
Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential	ASTM E547
Structural Loads	
Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference	ASTM E330
Air/Water/Structural	
Standard/Specification for Windows, Doors and Unit Skylights	AAMA/WDMA/CSA 101/I.S.2/A440-05 ^{1,2}
North American Fenestration Standard (NAFS)/Specification for Windows, Doors and Skylights	AAMA/WDMA/CSA101/I.S.2/A440-08 ^{1,2} , -11 ² (<i>Excluding Plastic Glazed Products, Section 9.2.1</i>), -17
Forced Entry	
Forced Entry Resistance Windows	ASTM F588
Forced Entry Resistance Doors	ASTM F842
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 Muller Fenestration Assemblies	AAMA 450
Ancillary	
Deglazing Force of Fenestration Products	ASTM E987 (Method A)
Operating Force of Sliding Windows and Doors	ASTM E2068 (Method B)
Life Cycle	
“Life Cycle” Specifications and Test Methods for Arch Grade Windows and Sliding Glass Doors	AAMA 910-93 ¹ , -10, -16

<u>Test:</u>	<u>Test Method(s):</u>
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
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 ¹ , -05 ¹ , -13
Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes	ASTM E1996-02 ^{1,2} , -04 ^{1,2} , -05 ^{1,2} , -06 ^{1,2} , -08 ^{1,2} , -09 ^{1,2} , -12 ² , -14 ² , -17 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
Vertical Loading Resistance of Side-Hinged Door Leaves	AAMA 925
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
Sealed Insulating Glass (continued)	
Frost Point of Sealed Insulating Glass Units	ASTM E546
Standard Test Method for Determining Argon Concentration in Sealed Insulating Glass Units Using Spark Emission Spectroscopy	ASTM E2649

<u>Test:</u>	<u>Test Method(s):</u>
Safety Glazing	
American National Standard for Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test	ANSI Z97.1 (<i>Impact, Boil and Center Punch Only</i>)
Chapter II – Consumer Product Safety Commission, Part 1201 – Safety Standard for Architectural Glazing Materials	16 CFR 1201 (<i>Impact, Boil and Center Punch Only</i>)
Tempered or Laminated Safety Glass	CAN/CGSB 12.1 -17 (<i>Impact, Boil and Center Punch Only</i>)

¹ 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.

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



Accredited Laboratory

A2LA has accredited

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

Everett, WA

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 30th day of September 2022.

A blue ink signature of Mr. Trace McInturff, Vice President of Accreditation Services.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3054.03
Valid to June 30, 2024



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