

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

Laboratory Certificate



*This certifies that National Certified Testing Laboratories located at 5 Leigh Drive, York, PA 17402 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  
ASTM E783  
ASTM E987  
ASTM E1105  
A2LA Certificate Number 3054.01

*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:*

Harold E. Rupp, P.E.

***This Certification and Registration Approved: March 5, 2015***

***This Certification and Registration Expires : May 5, 2020***

***Certification No. : 15-0211.10 Renews: 10-0323.04***

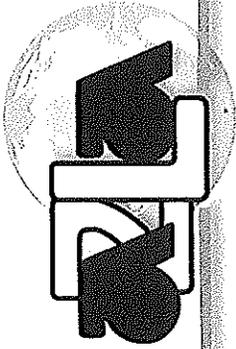
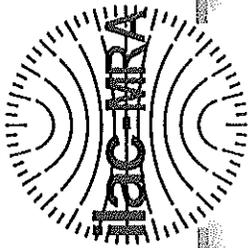
A handwritten signature in black ink, appearing to read "Jaime Gascon".

Jaime D. Gascon, P.E.  
Product Control Section Supervisor  
Product Control Section

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

Americo Segura, M.S.  
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.*



American Association for Laboratory Accreditation

# Accredited Laboratory

A2LA has accredited

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

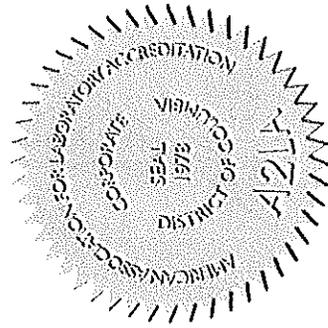
York, PA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009).

Presented this 5<sup>th</sup> day of November 2014.



  
President & CEO

For the Accreditation Council  
Certificate Number 3054.01  
Valid to August 31, 2016

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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

5 Leigh Drive  
York, PA 17406

Amy Becker Phone: 717 846 1200  
[abecker@nctlinc.com](mailto:abecker@nctlinc.com)

MECHANICAL

Valid To: August 31, 2016

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:

| <u>Test</u>   | <u>Test Method(s)</u>  |
|---|------------------------|
| Thermal   |                        |
| Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box   | ASTM C236 <sup>1</sup> |
| 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              |
| 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              |

(A2LA Cert. No. 3054.01) 11/05/2014

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| <u>Test</u>  | <u>Test Method(s)</u>  |
|--|--|
| <b>Structural Loads</b>  |  |
| Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference      | ASTM E330  |
| Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Cyclic Air Pressure Differential | ASTM E1233   |
| <b>Air/Water/Structural</b>  |  |
| Standard/Specification for Windows, Doors and Unit Skylights   | AAMA/WDMA/CSA101/I.S.2/A440-05 <sup>1,2</sup>  |
| North American Fenestration Standard (NAFS)/Specification for Windows, Doors and Skylights                         | AAMA/WDMA/CSA101/I.S.2/A440-08 <sup>1,2</sup> , -11 <sup>2</sup> (excluding section 9.3.6.2) |
| <b>Forced Entry</b>  |  |
| Forced Entry Resistance Windows  | ASTM F588  |
| Forced Entry Resistance Doors  | ASTM F842  |
| Security of Swinging Door Assemblies   |  |
| Door Impact Test   | ASTM F476 (Section 17)   |
| Hinge Impact Test  | ASTM F476 (Section 18)   |
| Specifications for Forced Entry Resistant Aluminum Prime Windows   | AAMA 1302 <sup>2</sup>   |
| Specifications for Forced Entry Resistant Aluminum Sliding Glass Doors   | AAMA 1303 <sup>2</sup>   |
| Forced Entry Resistance of Side-Hinged Door Systems  | AAMA 1304  |
| <b>Mullion</b>   |  |
| Performance Rating Method for Mullied Fenestration Assemblies  | AAMA 450   |
| <b>Ancillary</b>   |  |
| Deglazing Force of Fenestration Products   | ASTM E987 (Method A)   |
| Operating Force of Sliding Windows and Doors   | ASTM E2068 (Method B)  |
| <b>Life Cycle</b>  |  |
| "Life Cycle" Specifications and Test Methods for Arch Grade Windows and Sliding Glass Doors                        | AAMA 910-93 <sup>1</sup> , -10   |
| <b>Skylights</b>   |  |
| Specification for Skylights  | AAMA 1600 <sup>2</sup>   |

| <u>Test</u>  | <u>Test Method(s)</u>      |
|--|----------------------------|
| <b>Curtain Wall</b>  |                            |
| Static Testing Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drift                                | AAMA 501.4 <sup>3</sup>    |
| Methods of Tests for Exterior Walls  | AAMA 501 <sup>2,3</sup>    |
| Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure   | AAMA 501.1 <sup>3</sup>    |
| Thermal Cycling of Exterior Walls  | AAMA 501.5 <sup>3</sup>    |
| <b>Field/Curtain Wall – In-situ</b>  |                            |
| Specifications for Field Testing of Windows and Sliding Glass Doors  | AAMA 502 <sup>2,3</sup>    |
| <u>Air</u>   |                            |
| Field Measurement of Air Leakage Through Installed Exterior Windows and Doors  | ASTM E783 <sup>3</sup>     |
| <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 <sup>3</sup>    |
| Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls and Sloped Glazing Systems                                  | AAMA 501.2 <sup>2,3</sup>  |
| Forensic Water Penetration Testing of Fenestration   | AAMA 511-08 <sup>3</sup>   |
| Field Testing of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems   | AAMA 503-08 <sup>2,3</sup> |
| <b>Security Screen</b>   |                            |
| Specification for Metal Protection Screens   | SMA 6001 <sup>2</sup>      |
| <b>Manufactured Housing</b>  |                            |
| Primary Window and Sliding Glass Door Standard for Utilization in Manufactured Housing   | AAMA 1701.2 <sup>2</sup>   |
| Primary Swinging Exterior Passage Doors for Utilization in Manufactured Housing  | AAMA 1702.2 <sup>2</sup>   |

**Test**

**Test Method(s)**

**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<sup>1</sup>, -05<sup>1</sup>, -13

Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes

ASTM E1996-02<sup>1,2</sup>, -05<sup>1,2</sup>, -06<sup>1,2</sup>, -09<sup>1,2</sup>, -12<sup>2</sup>

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

Specifications for Insulating Storm Products for Windows and Sliding Glass Doors

AAMA 1002<sup>2</sup>

Specifications for Aluminum Storm Doors

AAMA 1102<sup>2</sup>

**Sealed Insulating Glass**

Insulating Glass Unit Performance and Evaluation

ASTM E2190<sup>2</sup>

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

Chapter II - Consumer Product Safety Commission, Part 1201 - Safety Standard for Architectural Glazing Materials

16 CFR 1201



Test

Test Method(s)

Safety Glazing (cont'd)

Tempered or Laminated Safety Glass

CAN/CGSB 12.1-M90

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> This laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests or calibrations.