

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 American Test Lab of South Florida, Inc. located at 6801 N.W. 17th Ave., Ft. Lauderdale, FL 33309 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:

TAS 101	TAS 123	ASTM C1167	ASTM E783
TAS 102	TAS 124	ASTM C1492	ASTM E987
TAS 102A	TAS 201	ASTM D5957	ASTM E1105
TAS 103 (Section 7)	TAS 202	ASTM E72	ASTM E1886
TAS 105	TAS 203	ASTM E196	ASTM E2068
TAS 106	AAMA 501.2-03	ASTM E283	ASTM F588
TAS 112	AAMA 502.02	ASTM E330	ASTM F842
TAS 114 Appendix C	AAM 910	ASTM E331	ANSI Z97.1 (Section 4.4 & 4.5)
TAS 114 Appendix D	AAMA 1302.5-76	ASTM E547	TAS 114 Appendix J (Per FM4470 Appendix K)
TAS 116	AAMA 1303.5	ASTM E661	A2LA Certificate Number 2650.01


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:

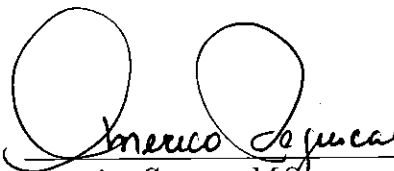
Henry Hattem, P.E., Julio E. Gonzalez, P.E., Stephen W. Warter, P.E.

This Certification and Registration Approved: February 11, 2016

This Certification and Registration Expires : April 8, 2021

Certification No. : 16-0114.04 Renews: 13-0228.09


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


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.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AMERICAN TEST LAB OF SOUTH FLORIDA
 6801 NW 17th Ave.
 Fort Lauderdale, FL 33309
 Tony Porcello Phone: 954 972 6208

MECHANICAL

Valid To: August 31, 2017

Certificate Number: 2650.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on roof tile, windows, doors, walls, shutters, sky lights, curtain walls, storefronts:

<u>Test Description:</u>	<u>Test Method(s):</u>
Determination of Operating Force of Sliding Windows and Doors	ASTM E2068
FM Approvals 12'x24' Uplift Pressure Test Procedure	FM 4470, App. K
Procedure for Determining Fenestration Product Air Leakage	NFRC 400
Safety Glazing Materials used in Buildings – Safety Performance Specifications and Methods of Test	ANSI Z97.1 (Impact Only)
SBCCI Test Standard for Determining Wind Resistance of Concrete or Clay Roof Tiles	SSTD 11-99
Standard Specification for Clay Roof Tiles	ASTM C1167
Standard Specification for Concrete Roof Tile	ASTM C1492
Standard Test Methods for Deglazing Force of Fenestration Products	ASTM E987
Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen	ASTM E283
Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact	ASTM F842

(A2LA Cert. No. 2650.01) 10/19/2015

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Test Description:	Test Method(s):
Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact	ASTM F588
Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials	ASTM E1886
Standard Specification for Performance of Exterior Windows, Glazed Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes	ASTM E1996
Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile	ASTM C67, Sec. 8 & 9
Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference	ASTM E330
Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential	ASTM E547
Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference	ASTM E331
Standard Test Method for Wind Resistance of Concrete and Clay Roof Tiles (Mechanical Uplift Resistance Method)	ASTM C1568
Testing Application Standard Criteria for Testing Product Subject to Cyclic Wind Pressures	TAS 203
Testing Application Standard for Testing Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components using Uniform Static Loads	TAS 202
Testing Application Standard, Impact Test Procedures	TAS 201
Testing Application Standard, Standard Requirements for Concrete Roof Tiles	TAS 112
Testing Application Standard –Test Procedure for Static Up Lift Resistance of Mortar or Adhesive Set Tile Systems	TAS 101
Test Procedure for 12'x24' Simulated Uplift Pressure Resistance of Roof Assembly	TAS 114-95, App. J
Test Procedure for Static Lift Resistance of Mechanically Attached Rigid Roof Systems (For Mechanically Attached, Rigid Roof Systems Accompanied by a Clip TAS 102(A))	TAS 102 & 102A
Voluntary Specifications for Forced-Entry Resistant Aluminum Prime Windows	AAMA 1302.5

Test Description:	Test Method(s):
Voluntary Specifications for Forced-Entry Resistant Aluminum Sliding Glass Doors	AAMA 1303.5

I. Dimensional Testing¹

Parameter	Range	CMC ² (±)	Technique / Method
Linear ³	Up to 1 in	0.00014 in	Micrometer / MIL-STD-120 (Canceled 5/15/96) ⁴
Linear ³	Up to 6 in	0.0013 in	Caliper / MIL-STD-120 (Canceled 5/15/96) ⁴
Linear ³	Up to 25 ft	0.050 in	Tape measure / MIL-STD-120 (Canceled 5/15/96) ⁴

¹ This laboratory offers commercial dimensional testing service only.

² Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95% level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

³ This test is not equivalent to that of a calibration.

⁴ 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."

The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications included below; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited.

Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors

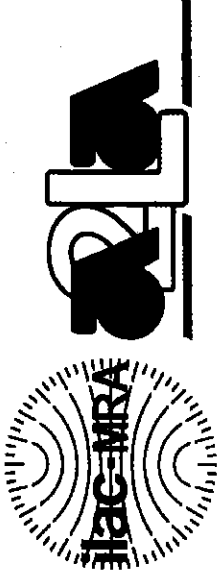
ANSI/AAMA/NWDA 101/IS2

Voluntary Performance Specifications for Windows, Skylights and Glass Doors

ANSI/AAMA/WDMA 101/IS2/NAFS

Standard/Specification for Windows, Doors and Unit Skylights

AAMA/WDMA/CSA 101/IS2/A440



Accredited Laboratory

A2LA has accredited

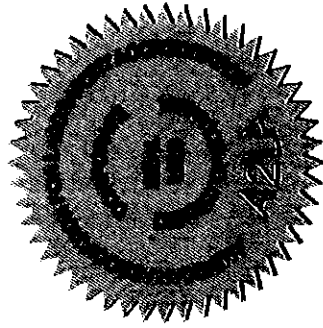
AMERICAN TEST LAB OF SOUTH FLORIDA

Ft. Lauderdale, FL

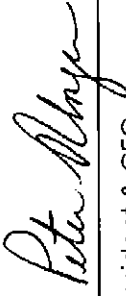
for technical competence in the field of

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 19th day of October 2015.



President & CEO

For the Accreditation Council
Certificate Number 2650.01
Valid to August 31, 2017

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