

Laboratory Certificate



This certifies that Architectural Testing, Inc., an Intertek company located at 2524 East Jensen Ave., Fresno, CA 93706 is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS 301-94, and is Certified to perform the following tests:

TAS 201	AAMA 501.3-05
TAS202	AAMA 701-92
TAS203	AAMA 800-92
ASTM E546	AAMA 902-92
ASTM E773	AAMA 1402-86
ASTM 783	AAMA 1503.1-88
ASTM E987	ANSI Z97.1 (Impact only)
ASTM E1105	IAS Accreditation Report No.TL-264
AAMA 103.3-89 Sect. 5	

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per TAS 301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

Vinu Abraham, P.E.; Tyler Westerling, P.E.; Michael Weigner, P.E.; Tanya A. Dolby, P.E.

This Certification and Registration Approved: July 7, 2022
This Certification and Registration Expires : September 6, 2026

Certification No. : 22-0428.15 Revises: 20-0831.15

A handwritten signature in blue ink, appearing to read "Helmy A. Makar".

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

A handwritten signature in blue ink, appearing to read "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 TAS 301-94.



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

ARCHITECTURAL TESTING, INC. (AN INTERTEK COMPANY)

2524 EAST JENSEN AVENUE
FRESNO, CALIFORNIA 93706, U.S.A.

Testing Laboratory TL-264

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 January 27, 2021



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

ARCHITECTURAL TESTING, INC. (AN INTERTEK COMPANY)

www.intertek.com/building

Contact Name Tyler Westerling

Contact Phone +1-559-233-8705

Accredited to ISO/IEC 17025:2017

Effective Date January 27, 2021

Conformity Specifications	
ASTM E329	Standard specification for agencies engaged in construction inspection, testing, or special inspection (sections 8-12)
ASTM E699	Standard specification for agencies involved in testing, quality assurance and evaluating of manufactured building components (part A)
Energy Star	
ASTM C1371	Standard test method for determination of emittance of materials near room temperature using portable emissometers
ASTM C1549	Standard test method for determination of solar reflectance near ambient temperature using a portable solar reflectometer
ASTM E1918	Standard test method for measuring solar reflectance of horizontal and low-sloped surfaces in the field
CRRC Test Method #1	Standard practice for measuring solar reflectance of a flat, opaque, and heterogeneous surface using a portable solar reflectometer
ENERGY STAR program requirements for roofing products	
ENERGY STAR program requirements for windows doors, and skylights	
NFRC 100	Procedure for determining fenestration product U-factors
NFRC 102	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
NFRC 201	Procedure for interim standard test method for measuring the solar heat gain coefficient of fenestration systems using calorimetry hot box methods
NFRC 202	Procedure for determining translucent fenestration product visible transmittance at normal incidence
NFRC 203	Procedure for determining visible transmittance of tubular daylighting devices

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NFRC 500	Procedure for determining fenestration product condensation resistance values
Structural	
AAMA/WDMA/CSA 101/I.S.2/A440 101	North American Fenestration Standard Specifications for windows, doors and skylights
AAMA 501.1	Standard test method for water penetration of windows, curtain walls and doors using dynamic pressure
AAMA 501.2	Quality assurance and diagnostic water leakage field check of installed storefronts, curtain walls and sloped glazing systems
AAMA 501.4	Recommended static test method for evaluating curtain wall and storefront systems subjected to seismic and wind induced interstory drifts
AAMA 501.5	Test method for thermal cycling of exterior walls
AAMA 501.6	Recommended dynamic test method for determining the seismic drift causing glass fallout from a wall system
AAMA 501.7	Recommended static test method for evaluating windows, window wall, curtain wall and storefront systems subjected to vertical inter-story movements
AAMA 502	Voluntary Specification for Field Testing of Newly Installed Fenestration Products
AAMA 503	Voluntary Specification for Field Testing of Newly Installed 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 910	Voluntary "life cycle" specifications and test methods for AW class architectural windows and doors
AAMA 920	Specification for operating cycle performance of active side-hinged exterior door slabs
AAMA 925	Specification for determining the vertical loading resistance of side-hinged door leaves
AAMA 1304	Voluntary specification for forced entry resistance of side-hinged door systems
ANSI Z97.1	Standard for safety glazing materials used in buildings – safety performance specifications and methods of test
ANSI/DASMA 108	Standard method for testing sectional garage doors and rolling door – determination of structural performance under uniform static air pressure difference.

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ANSI/DASMA 115	Standard method for testing sectional garage doors and rolling doors – determination of structural performance under missile impact and cyclic wind pressure
AS/NZS 4284	Testing of building facades
ASTM E72	Standard test methods of conducting strength tests of panels for building construction (sections 11, 14 and 15 only)
ASTM E283/E283M	Standard test method for determining rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen
ASTM E330/E330M	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E331	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E546	Standard test method for frost/dew point of sealed insulating glass units
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference
ASTM E562	Standard test method for determining volume fraction by systematic manual point count
ASTM E773	Standard test method for accelerated weathering of sealed insulating glass units
ASTM E774	Standard specification for the classification of the durability of sealed insulating glass units
ASTM E783	Standard test method for field measurement of air leakage through installed exterior windows and doors
ASTM E849	Practice for safety and health requirements relating to occupational exposure to asbestos
ASTM E935	Standard test methods for performance of permanent metal railing systems and rails for buildings
ASTM E985	Standard specification for permanent metal railing systems and rails for buildings
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, skylights, doors, and curtain walls, by uniform or cyclic static air pressure difference
ASTM E1592	Standard test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference

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ASTM E1646	Standard test method for water penetration of exterior metal roof panel systems by uniform static air pressure difference
ASTM E1680	Standard test method for rate of air leakage through exterior metal roof panel 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 E1980	Standard practice for calculating solar reflectance index of horizontal and low-sloped opaque surfaces
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 method for determination of operating force of sliding windows and doors
ASTM E2126	Standard test methods for cyclic (reversed) load test for shear resistance of vertical elements of the lateral force resisting systems for buildings
ASTM E2357	Standard test method for determining air leakage of air barrier assemblies
ASTM E2649	Standard test method for determining argon concentration in sealed insulating glass units using spark emission spectroscopy
ASTM F588	Standard test methods for measuring the forced entry resistance of window assemblies, excluding glazing impact
ASTM F842	Standard test methods for measuring the forced entry resistance of sliding door assemblies, excluding glazing impact
BS 6206	Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings
CAN/CGSB 12.1	Tempered or laminated safety glass
CAWM 300	Forced entry resistance tests for sliding glass doors
CAWM 301	Forced entry resistance tests for windows
CPSC 16 CFR 1201	Commercial practices -safety standard for architectural glazing materials
DIN/EN 12600	Glass in building - pendulum tests - impact test method and classification for flat glass
ICC ES AC15	Concrete floor, roof and wall systems and concrete masonry wall systems (test methods referenced in sections 3.0 and 4.0)
ICC ES AC16	Plastic glazed skylights (test methods referenced in sections A3.0 and A4.0 (except A4.2 and A4.3))
ICC ES AC174	Deck board span ratings and guardrail systems (guards and handrails) (test methods referenced in sections 3.0 (except sections 3.9 and 3.10) and 4.0)

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ICC ES AC245	Windows and doors subject to wind-borne debris (test methods referenced in section 3.0)
NFRC 400	Procedure for determining fenestration product air leakage
TAS 201	Impact test procedures
TAS 202	Criteria for testing impact and non-impact resistant building envelope components using uniform static air pressure
TAS 203	Criteria for testing products subject to cyclic wind pressure loading
UBC 24-2	Safety glazing
UL 746C	Standard for polymeric materials - use in electrical equipment evaluations (paragraph 58 only)
Thermal	
AAMA 1503	Voluntary test method for thermal transmittance and condensation resistance of windows, doors and glazed wall sections.
ASHRAE 74	Method of measuring solar-optical properties of materials (Procedures C, D and E only)
ASTM C236	Standard test method for steady-state thermal performance of building assemblies by means of a guarded hot box
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 thermal performance of building materials and envelope assemblies by means of a hot box apparatus
ASTM E424	Standard test methods for solar energy transmittance and reflectance (terrestrial) of sheet materials
ASTM E972	Standard test method for solar photometric transmittance of sheet materials using sunlight
ASTM E1175	Standard test method for determining solar or photopic reflectance, transmittance, and absorptance of materials using a large diameter integrating sphere
ASTM E2188	Standard test method for insulating glass unit performance
ASTM E2189	Standard test method for testing resistance to fogging in insulating glass units
ASTM E2190	Standard specification for insulating glass unit performance and evaluation

AAMA: American Architectural Manufacturers Association

ASHRAE: American Society of Heating, Refrigerating and Air-conditioning Engineers

CAWM: California Association of Window Manufacturers

CGSB: Canadian General Standards Board

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CPSC: Consumer Product Safety Commission

CRRC: Cool Roof Rating Council

DASMA: Doors & Access Systems Manufacturers Association

NFRC: National Fenestration Rating Council

TAS: Testing Application Standards (Miami-Dade County Protocol)

UBC: Uniform Building Code