

Miami-Dade County, Florida

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

BOARD AND CODE ADMINISTRATION DIVISION

Laboratory Certificate



PRODUCT CONTROL SECTION

11805 S.W. 26 Street-Room 208

Miami, Florida 33175-2474

T (786) 315-2590 Fax (786) 315-2599

This certifies that Intertek Testing Services, NA, Inc. located at 8431 Murphy Drive, Middleton, WI 53562 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:

TAS201	TAS114 Appendix E (Salt spray only)
TAS202	TAS114 Appendix F
TAS203	TAS114 Appendix H
TAS111(A)	International Accreditation Service, Inc.
TAS111(B)	Certificate of Accreditation TL-271
TAS111(C)	U.S. Department of Labor (OSHA)
TAS114 Appendix A	Federal Register 29 CFR 1910.7
TAS114 Appendix C	
TAS114 Appendix D	

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: June 30, 2022

This Certification and Registration Expires : July 3, 2026

Certification No. : 22-0428.05 Revises: 20-0831.05

A blue ink signature of Helmy A. Makar.

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

A blue ink signature of 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 TAS301-94.



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

INTERTEK TESTING SERVICES NA, INC.

8431 MURPHY DRIVE
MIDDLETON, WISCONSIN 53562, U.S.A.

Testing Laboratory TL-271

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 September 29, 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

INTERTEK TESTING SERVICES NA, INC.

www.intertek.com

Contact Name Brian Brunson

Contact Phone +1-608-824-7444

Accredited to ISO/IEC 17025:2017

Effective Date September 29, 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)
Chemical	
ASTM C871	Standard test methods for chemical analysis of thermal insulation materials for leachable chloride, fluoride, silicate, and sodium ions
ASTM D1475	Standard test method for density of liquid coatings, inks, and related products
ASTM D2369	Standard test method for volatile content of coatings
ASTM D4017	Standard test method for water in paints and paint materials by Karl Fischer method
ASTM D5403	Standard test methods for volatile content of radiation curable materials (limited to UV exposure)
ASTM E1252	Standard practice for general techniques for obtaining infrared spectra for qualitative analysis (sections 6.2, 6.3, 6.5.3, 7.7, 9.1, 9.2 and 9.3 only)
ASTM F925	Standard test method for resistance to chemicals of resilient flooring
ASTM G87	Standard practice for conducting moist SO ₂ tests
EPA Method 24	Determination of volatile matter content, water content, density, volume solids, and weight solids of surface coatings
ISO/EN 6988	Metallic and other non-organic coatings -- sulfur dioxide test with general condensation of moisture
Environmental	
ANSI/BHMA A156.18	Materials and finishes
ASTM B117	Standard practice for operating salt spray (fog) apparatus
ASTM C692	Standard test method for evaluating the influence of thermal insulations on external stress corrosion cracking tendency of austenitic stainless steel
ASTM E871	Standard test method for moisture analysis of particulate wood fuels
ASTM G1	Standard practice for preparing, cleaning, and evaluating corrosion test specimens
ASTM G147	Standard practice for conditioning and handling of nonmetallic materials for natural and artificial weathering tests
ASTM G151	Standard practice for exposing nonmetallic materials in accelerated test devices that use laboratory light sources (except section 5.1)
ASTM G154	Standard practice for operating fluorescent ultraviolet (UV) lamp apparatus for exposure of nonmetallic materials
DIN 50018	Testing in a saturated atmosphere in the presence of sulfur dioxide
Fire	
ABD 0031	Fire test to aircraft material
ASTM D635	Standard test method for rate of burning and/or extent and time of burning of plastics in a horizontal position

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ASTM D1929	Standard test method for determining ignition temperature of plastics
ASTM D2843	Standard test method for density of smoke from the burning or decomposition of plastics
ASTM D2863	Standard test method for measuring the minimum oxygen concentration to support candle-like combustion of plastics (oxygen index)
ASTM E108	Standard test methods for fire tests of roof coverings
ASTM E119	Standard test methods for fire tests of building construction and materials
ASTM E136	Standard test method for behavior of materials in a vertical tube furnace at 750°C
ASTM E162	Standard test method for surface flammability of materials using a radiant heat energy source
ASTM E662	Standard test method for specific optical density of smoke generated by solid materials
ASTM E698	Standard test method for kinetic parameters for thermally unstable materials using differential scanning calorimetry and the Flynn/Wall/Ozawa method
ASTM E800	Standard guide for measurement of gases present or generated during fires
ASTM E814	Standard test method for fire tests of penetration firestop systems
ASTM E1354	Standard test method for heat and visible smoke release rates for materials and products using an oxygen consumption calorimeter
BS 476-20	Fire resistance test to building material
BS 476-22	Fire tests on building materials and structures - method for determination of the fire resistance of non-loadbearing elements of construction
BS EN 597-1	Furniture - assessment of the ignitability of mattresses and upholstered bed bases - ignition source smouldering cigarette
BS EN 597-2	Furniture - assessment of the ignitability of mattresses and upholstered bed bases - ignition source: match flame equivalent
BS EN 1021-1	Furniture - assessment of the ignitability of upholstered furniture - ignition source smouldering cigarette
BS EN 1021-2	Furniture - assessment of the ignitability of upholstered furniture - ignition source match flame equivalent
BS EN 1634-1	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - fire resistance test for door and shutter assemblies and openable windows
BS EN 6807	Methods of test for assessment of ignitability of mattresses, upholstered divans and upholstered bed bases with flaming types of primary and secondary sources of ignition
BS EN ISO 4589-2	Plastics - determination of burning behaviour by oxygen index - guidance
BS EN ISO 4589-3	Plastics - determination of burning behaviour by oxygen index - elevated temperature test
BSS 7230	Flammability testing of aircraft materials
BSS 7238	Fire test to aircraft material – toxicity
BSS 7239	Toxic gas generation
CA TB 117	Requirements, test procedure and apparatus for testing the flame retardance of resilient filling materials used in upholstered furniture
CA Title 19	Flame retardant regulations
FMVSS 302	Flammability of interior materials
ISO 1182	Reaction to fire tests for products -- non-combustibility test
ISO 5659	Plastics -- smoke generation -- part 2: Determination of optical density by a single-chamber test

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ISO 5660	Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement)
ISO 19702	Guidance for sampling and analysis of toxic gases and vapors in fire effluents using Fourier transform infrared (FTIR) spectroscopy
MIL-PRF-85045G	Performance specification: cables, fiber optic, general specification (sections 4.8.3 and 4.8.6)
MIL-STD-24640C	Detail specification: cables, light-weight, electric, for shipboard use, general specification (sections 4.7.17 and 4.7.19 only)
MIL-STD-24643C	DETAIL specification: cables, electric, low smoke halogen-free, for shipboard use general specification (sections 4.8.25 and 4.8.27 only)
NES 711	Determination of the smoke index of the products of combustion from small specimens of materials
NES 713	Determination of the toxicity index of the products of combustion from small specimens of materials
NFPA 251	Standard methods of tests of fire resistance of building construction and materials
NFPA 252	Standard methods of fire tests of door assemblies
NFPA 253	Standard method of test for critical radiant flux of floor covering systems using a radiant heat energy source
NFPA 256	Standard methods of fire tests of roof coverings
NFPA 257	Standard on fire test for window and glass block assemblies
NFPA 259	Standard test method for potential heat of building materials
NFPA 261	Standard method of test for determining resistance of mock-up upholstered furniture material assemblies to ignition by smoldering cigarettes
NFPA 701	Standard methods of fire tests for flame propagation of textiles and films
UL 9	Standard for fire tests of window assemblies
UL 10A	Standard for tin-clad fire doors
UL 10B	Standard for fire tests of door assemblies
UL 10C	Standard for positive pressure fire tests of door assemblies
UL 10D	Standard for fire tests of fire protective curtain assemblies
UL 94	Standard for tests for flammability of plastic materials for parts in devices and appliances
UL 790	Standard for standard test methods for fire tests of roof coverings
UL 1703	Standard for flat-plate photovoltaic modules and panels, (sections 31.1 and 31.2 only)
ULC S109	Flame tests of flame-resistant fabrics and films
ULC S135	Standard method of test for determination of degrees of combustibility of building materials using an oxygen consumption calorimeter (cone calorimeter)
Heating / Cooling	
ANSI Z21.1	Household cooking gas appliances
ANSI Z21.11.2	Gas-fired room heaters - volume II, unvented room heaters
ANSI Z21.50	Vented decorative gas appliances
ANSI Z21.58	Outdoor cooking gas appliances
ANSI Z21.60	Decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.88	Vented gas fireplace heaters
ANSI Z83.11	Gas food service equipment
ANSI/UL 103	Standard for factory-built chimneys for residential type and building heating appliances
ANSI/UL 127	Standard for factory-built fireplaces

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ANSI/UL 737	Standard for fireplace stoves
ANSI/UL 1482	Standard for solid-fuel type room heaters
AS 1530.1	Methods for fire tests on building materials, components and structures Combustibility test for materials
ASTM E1509	Standard specification for room heaters, pellet fuel-burning type
ASTM E2515	Determination of Particulate Matter Collected by a Dilution Tunnel
ASTM E2618	Measurement of Particulate Emissions and Heating Efficiency of Solid-Fuel Fired Hydronic Heating Appliances
ASTM E2779	Standard test Method for Determining particulate matter emissions from Pellet Heaters
ASTM E2780	Standard Test Method for Determining particulate matter emissions from Wood Heaters
ASTM E3053	Standard Test Method for Determining Particulate Matter Emissions from Wood
CAN/CSA B415.1	Performance Testing of Solid Fuel Burning Heating Appliances
EPA 40 CFR Part 60, Subpart AAA, Method 28R	Certification and Auditing of Wood Heaters
UL 391	Standard for solid-fuel and combination-fuel central and supplementary furnaces
UL 907	Standard for fireplace accessories
Misc / Energy Star®	
ANSI/BHMA 156.1	Butts and hinges
ANSI/BHMA 156.2	Bored & preassembled locks and latches
ANSI/BHMA 156.3	Exit devices
ANSI/BHMA 156.4	Door controls-closers
ANSI/BHMA 156.5	Cylinders and input devices for locks
ANSI/BHMA 156.6	Architectural door trim
ANSI/BHMA 156.9	Cabinet hardware
ANSI/BHMA 156.10	Power operated pedestrian doors
ANSI/BHMA 156.11	Cabinet locks
ANSI/BHMA 156.12	Interconnected locks & latches
ANSI/BHMA 156.13	Mortise locks
ANSI/BHMA 156.15	Release devices
ANSI/BHMA 156.16	Auxiliary hardware
ANSI/BHMA 156.17	Self-closing hinges
ANSI/BHMA 156.20	Strap and tee hinges and hasps
ANSI/BHMA 156.21	Thresholds
ANSI/BHMA 156.23	Electromagnetic locks
ANSI/BHMA 156.24	Delayed egress locks
ANSI/BHMA A156.36	Auxiliary locks
ANSI/BHMA A156.39	Residential locksets and latches
ANSI/BHMA A156.40	Residential deadbolts
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
Roof Products Version 3.0	Energy Star® program requirements for roof products
UL 437	Standard for Safety of Key Locks
Physical	
AAMA 501.1	Standard test method for water penetration of windows, curtain walls and doors using dynamic pressure

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AAMA/WDMA/CSA 101/IS2/A440	Standard/specification for windows, doors, and skylights
AATCC 127	Water resistance: hydrostatic pressure test
ANSI A250.4	Test procedure and acceptance criteria for – physical endurance for steel doors, frames and frame anchors
ANSI Z97.1	Standard for safety glazing materials used in buildings – safety performance specifications and methods of test (Cl. 5.1 Only)
ASTM C271 / C271M	Standard test method for density of sandwich core materials
ASTM C297 / C297M	Standard test method for flatwise tensile strength of sandwich constructions
ASTM C1629/C1629M	Standard classification for abuse-resistant nondecorated interior gypsum panel products and fiber-reinforced cement panels
ASTM D143	Standard test methods for small clear specimens of timber (Cl. 14 Only)
ASTM D638	Standard test method for tensile properties of plastics
ASTM D737	Standard test method for air permeability of textile fabrics
ASTM D779	Standard test method for determining the water vapor resistance of sheet materials in contact with liquid water by the dry indicator method
ASTM D790	Standard test methods for flexural properties of unreinforced and reinforced plastics and electrical insulating materials
ASTM D792	Standard test methods for density and specific gravity (relative density) of plastics by displacement
ASTM D905	Standard test method for strength properties of adhesive bonds in shear by compression loading
ASTM D906	Standard test method for strength properties of adhesives in plywood type construction in shear by tension loading
ASTM D1037	Standard test methods for evaluating properties of wood-base fiber and particle panel materials (excluding sections 7, 17, 18, 22 and 28)
ASTM D1623	Standard test method for tensile and tensile adhesion properties of rigid cellular plastics
ASTM D1875	Standard test method for density of adhesives in fluid form
ASTM D2244	Standard practice for calculation of color tolerances and color differences from instrumentally measured color coordinates
ASTM D2247	Standard practice for testing water resistance of coatings in 100 % relative humidity
ASTM D2842	Standard test method for water absorption of rigid cellular plastics
ASTM D3746 / D3746M	Standard test method for impact resistance of bituminous roofing systems
ASTM D4060	Standard test method for abrasion resistance of organic coatings by the taber abraser
ASTM D5402	Standard practice for assessing the solvent resistance of organic coatings using solvent rubs
ASTM D5751	Standard Specification for Adhesives Used for Laminate Joints in Nonstructural Lumber Products
ASTM D5795	Standard Test Method for Determination of Liquid Water Absorption of Coated Wood and Wood Based Products Via “Cobb Ring” Apparatus
ASTM D6226	Standard test method for open cell content of rigid cellular plastics
ASTM D7073	Standard guide for application and evaluation of brush and roller applied paint films
ASTM E8 / E8M	Standard test methods for tension testing of metallic materials
ASTM E18	Standard test methods for Rockwell hardness of metallic materials
ASTM E72 Cl. 14 Only	Standard test methods of conducting strength tests of panels for building construction
ASTM E96 / E96M	Standard test methods for water vapor transmission of materials

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ASTM E283	Standard test method for determining rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen
ASTM E331	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by uniform static air pressure difference
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference
ASTM E605 / E605M	Standard test methods for thickness and density of sprayed fire-resistive material (SFRM) applied to structural members
ASTM E736 / E736M	Standard test method for cohesion/adhesion of sprayed fire-resistive materials applied to structural members
ASTM E759 / E759M	Standard test method for effect of deflection on sprayed fire-resistive material applied to structural members
ASTM E760 / E760M	Standard test method for effect of impact on bonding of sprayed fire-resistive material applied to structural members
ASTM E761 / E761M	Standard test method for compressive strength of sprayed fire-resistive material applied to structural members
ASTM E2068	Standard test method for determination of operating force of sliding windows and doors
ASTM E2178	Standard test method for air permeance of building materials
ASTM E2273	Standard test method for determining the drainage efficiency of exterior insulation and finish systems (EIFS) clad wall assemblies
ASTM E2357	Standard test method for determining air leakage of air barrier assemblies
ASTM F476	Standard test methods for security of swinging door assemblies
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
ASTM F1577	Standard test methods for detention locks for swinging doors
ASTM G154	Standard practice for operating fluorescent ultraviolet (UV) lamp apparatus for exposure of nonmetallic materials
ASTM G155	Standard practice for operating xenon arc light apparatus for exposure of non-metallic materials
CPSC 16 CFR 1201	Commercial practices – consumer product safety commission – consumer product safety act regulations – safety standard for architectural glazing materials
ICC ES AC212	Water-resistive coatings used as water-resistive barriers over exterior sheathing (test methods referenced in sections 3.0 and 4.0 only)
ICC ES EG356	Evaluation guidelines for a moisture drainage system used with exterior wall veneers (except section 3.1.6)
NFRC 400	Procedure for determining fenestration product air leakage
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
UL 1777	Standard for chimney liners
UL 1784	Standard for air leakage tests of door assemblies and other opening protectives
WDMA I.S. 1-A	Industry standard for interior architectural wood flush doors
WDMA I.S. 2 (AAMA/WDMA/CSA 101/I.S.2/A440)	North American fenestration standard for windows, doors, and skylights

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WDMA I.S. 3	Wood sliding patio doors
WDMA I.S. 6A	Industry standard for architectural stile and rail doors
WDMA I.S. 7 (AAMA/WDMA 1600/I.S. 7)	Voluntary specification for skylights
WDMA T.M. 10	Screw holding capacity
WDMA T.M. 5	Test method to determine the split resistance of stile edges of wood doors
WDMA T.M. 6	Adhesive durability
WDMA T.M. 7	Cycle slam test
WDMA T.M. 8	Hinge loading test
Structural	
ANSI/DASMA 108	Standard method for testing sectional garage doors and rolling doors: determination of structural performance under uniform static air pressure difference
ANSI/DASMA 115	Standard method for testing sectional garage doors and rolling doors: determination of structural performance under missile impact and cyclic wind pressure
ASTM D905	Standard test method for strength properties of adhesive bonds in shear by compression loading
ASTM D1761	Standard test methods for mechanical fasteners in wood
ASTM D5764	Standard test method for evaluating dowel-bearing strength of wood and wood-based products
ASTM E330	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E1233 / E1233M	Standard test method for structural performance of exterior windows, doors, skylights, and curtain walls by cyclic air pressure differential
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 E1996	Standard specification for performance of exterior windows, curtain walls, doors, and impact protective systems impacted by windborne debris in hurricanes
ASTM F1575	Standard test method for determining bending yield moment of nails
ICC ES AC01	Expansion anchors in masonry elements (test methods referenced in section 5.0 only)
ICC ES AC05	Sandwich panel adhesives (test methods referenced in sections 5.0, 6.0, 7.0, 8.0 and 9.0 only)
TAS 201	Impact test procedures
UL 2218	Standard for impact resistance of prepared roof covering materials
Thermal	
ASTM C209	Standard test methods for cellulosic fiber insulating board
ASTM C518	Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus
ASTM C1512	Standard test method for characterizing the effect of exposure to environmental cycling on thermal performance of insulation products
ASTM E537	Standard test method for the thermal stability of chemicals by differential scanning calorimetry
ICC ES AC12	Foam plastic insulation (test methods referenced in sections 3.0 and 4.0 only)

AAMA: American Architectural Manufacturers Association

AATCC: American Association of Textile Chemists and Colorists

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ABD: Airbus Directive

AS: Australian Standard

BHMA: Builders Hardware Manufacturers Association

BSS: British Standards Society

CA TB: California Technical Bulletin

CPSC: Consumer Product Safety Commission

DASMA: Doors & Access Systems Manufacturers Association

DIN: German Standard

FMVSS: Federal Motor Vehicle Safety Standards

MIL-PFR: Military Performance

MIL-STD: Military Standard

NES: Naval Engineering Standard

NFPA: National Fire Protection Association

NFRC: National Fenestration Rating Council

NZ: New Zealand Standard

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

TO: Compendium Method U.S. Environmental Protection Agency

UBC: Uniform Building Code

UL: Underwriters Laboratories

ULC: Underwriters Laboratories Canada

WDMA: Window and Door Manufacturer