

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 Ltd. located at 1500 Brigantine Drive, Coquitlam BC V3K 7C1 Canada 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:

TAS100	TAS125 per UL580
TAS100(A)	TAS201
TAS101	TAS202
TAS102	TAS203
TAS102(A)	ASTM G151
TAS103	ASTM G155
TAS104	Standards Council of Canada Certificate No. 54
TAS112	I.A.S. Certificate TL-274
TAS110 per ASTM C1167 only	US Department of Labor (OSHA) Recognized in Federal
TAS114 Appendix D & F	Register under 29 CFR 1910.7 for Vancouver Site.

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:

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

This Certification and Registration Approved: June 30, 2022

This Certification and Registration Expires : March 27, 2028

Certification No. : 22-0428.01 Renews and Revises: 20-0831.01

A blue ink signature of Helmy A. Makar, written in a cursive style.

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

A blue ink signature of Americo Segura, written in a cursive style.

*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

INTERTEK TESTING SERVICES NA, LTD.

1500 BRIGANTINE DRIVE
COQUITLAM, BRITISH COLUMBIA V3K 7C1, CANADA

Testing Laboratory TL-274

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 May 13, 2021



A handwritten signature in black ink, reading "Raj Nathan".

President

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, LTD.

www.intertek.com

Contact Name Baldeep Sandhu

Contact Phone +1-604-679-1736

Accredited to ISO/IEC 17025:2017

Effective Date May 13, 2021

CMT	
ASTM C307	Standard test method for tensile strength of chemical-resistant mortar, grouts, and monolithic surfacings
ICC ES AC51	Precast stone veneer (test methods referenced in sections 3.0 and 4.0, excluding section 3.1.6)
ICC ES AC90	Fiber cement siding used as exterior wall siding (test methods referenced in sections 3.0 and 4.0)
Fire	
ANSI/UL 1715	Standard for fire test of interior finish material
ANSI/UL 1887	Standard for fire test of plastic sprinkler pipe for visible flame and smoke characteristics
ASTM D635	Standard test method for rate of burning and/or extent and time of burning of plastics in a horizontal position
ASTM E84	Standard test method for surface burning characteristics of building materials
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 E152	Methods of fire tests of door assemblies
ASTM E162	Standard test method for surface flammability of materials using a radiant heat energy source
ASTM E163	Methods for fire tests of window assemblies
ASTM E814	Standard test method for fire tests of penetration firestop systems
ASTM E2768	Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)
CAN/ULC S107	Standard methods of fire tests of roof coverings

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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 256	Standard methods of fire tests of roof coverings
NFPA 257	Standard on fire test for window and glass block assemblies
NFPA 265	Standard methods of fire tests for evaluating room fire growth contribution of textile or expanded vinyl wall coverings on full height panels and walls
NFPA 275	Standard method of fire tests for the evaluation of thermal barriers
NFPA 286	Standard methods of fire tests for evaluating contribution of wall and ceiling interior finish to room fire growth
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 263	Standard for fire tests of building construction and materials
UL 790	Standard for standard test methods for fire tests of roof coverings
UL 1275	Standard for flammable liquid storage cabinets
UL 2043	Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces
UL 2079	Standard for tests for fire resistance of building joint systems
Heating/Cooling	
ANSI Z21.50/CSA 2.22	Vented decorative gas appliances
ANSI Z21.60/CSA 2.26	Decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.84	Standard for manually lighted, natural gas, decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.86/CSA 2.32	Vented gas-fired space heating appliances
ANSI Z21.88/CSA 2.33	Vented gas fireplace heaters
ASTM E1509	Standard specification for room heaters, pellet fuel-burning type
Mechanical	
ANSI/ASME A112.19.2	Ceramic plumbing fixtures
ANSI/ASME A112.19.3	Stainless steel plumbing fixtures (designed for residential use)

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ANSI/UL 48	Standard for electric signs
ANSI/UL 50	Enclosures for electrical equipment, non-environmental considerations
ANSI/UL 1563	Standard for electric spas, equipment assemblies, and associated equipment
ANSI/UL 1778	Uninterruptible power systems
ANSI/UL 224	Extruded insulating tubing
ANSI/UL 514A	Metallic outlet boxes
ANSI/UL 514B	Conduit, tubing, and cable fittings
ANSI/UL 514C	Standard for nonmetallic outlet boxes, flush-device boxes, and covers
ANSI/UL 651	Standard for schedule 40, 80, type EB and A rigid PVC conduit and fittings
ANSI/UL 651A	Schedule 40 and 80 high density polyethylene (HDPE) conduit
ANSI/UL 884	Standard for underfloor raceways and fittings
ASTM B306	Standard specification for copper drainage tube (DWV)
ASTM B819	Standard specification for seamless copper tube for medical gas systems
ASTM C578	Standard specification for rigid, cellular polystyrene thermal insulation (except section 11.10)
ASTM D828	Standard test method for tensile properties of paper and paperboard using constant-rate-of-elongation apparatus (except paper based material)
ASTM D905	Standard test method for strength properties of adhesive bonds in shear by compression loading
ASTM D4761	Standard test methods for mechanical properties of lumber and wood-base structural material
ASTM D6108	Standard test method for compressive properties of plastic lumber and shapes
ASTM D6112	Standard test methods for compressive and flexural creep and creep-rupture of plastic lumber and shapes
UL 773	Standard for plug-in locking type photocontrols for use with area lighting
UL 924	Standard for emergency lighting and power equipment
Physical	
AAMA 501.1	Standard test method for water penetration of windows, curtain walls and doors using dynamic pressure
AAMA 501.5	Test method for thermal cycling of exterior walls
AAMA 508	Voluntary test method and specification for pressure equalized rain screen wall cladding systems

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AAMA 509	Voluntary test and classification method for drained and back ventilated rain screen wall cladding systems
AATCC 127	Water resistance: hydrostatic pressure test
ANSI A151.1	Test procedure and acceptance criteria for physical endurance
ASTM B117	Standard practice for operating salt spray (fog) apparatus
ASTM C97	Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone
ASTM C99	Standard Test Method for Modulus of Rupture of Dimension Stone
ASTM C170	Standard Test Method for Compressive Strength of Dimension Stone
ASTM C203	Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
ASTM C273	Standard Test Method for Shear Properties of Sandwich Core Materials
ASTM C297/ C297M	Standard test method for flatwise tensile strength of sandwich constructions
ASTM C473	Standard Test Methods for Physical Testing of Gypsum Panel Products (exclude CI 21)
ASTM C1185	Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards
ASTM C1186	Standard Specification for Flat Fiber-Cement Sheets
ASTM D146/ D146M	Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing
ASTM D228 / D228M	Standard Test Methods for Sampling, Testing, and Analysis of Asphalt Roll Roofing, Cap Sheets, and Shingles Used in Roofing and Waterproofing
ASTM D570	Standard Test Method for Water Absorption of Plastics
ASTM D732	Standard Test Method for Shear Strength of Plastics by Punch Tool
ASTM D751	Standard test methods for coated 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 D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting

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ASTM D1037	Standard test methods for evaluating properties of wood-base fiber and particle panel materials
ASTM D1204	Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheet or Film at Elevated Temperature
ASTM D1621	Standard Test Method for Compressive Properties of Rigid Cellular Plastics
ASTM D1623	Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
ASTM D1790	Standard Test Method for Brittleness Temperature of Plastic Sheet by Impact
ASTM D1929	Standard Test Method for Determining Ignition Temperature of Plastics
ASTM D1970/D1970M	Standard specification for self-adhering polymer modified bituminous sheet materials used as steep roofing underlayment for ice dam protection
ASTM D2126	Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
ASTM D2395	Standard test methods for density and specific gravity (relative density) of wood and wood-based materials
ASTM D2412	Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
ASTM D2444	Standard Practice for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)
ASTM D2842	Standard Test Method for Water Absorption of Rigid Cellular Plastics
ASTM D2898	Standard practice for accelerated weathering of fire-retardant-treated wood for fire testing
ASTM D3161/D3161M	Standard test method for wind-resistance of steep slope roofing products (fan-induced method)
ASTM D3909	Standard Specification for Asphalt Roll Roofing &Glass Felt&; Surfaced With Mineral Granules
ASTM D4226	Standard Test Methods for Impact Resistance of Rigid Poly (Vinyl Chloride) (PVC) Building Products
ASTM D4442	Standard test methods for direct moisture content measurement of wood and wood-based materials
ASTM D4533	Standard Test Method for Trapezoid Tearing Strength of Geotextiles
ASTM D4601	Standard Specification for Asphalt-Coated Glass Fiber Base Sheet Used in Roofing
ASTM D4798 / D4798M	Standard Practice for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Xenon-Arc Method)

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ASTM D4869 / D4869M	Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing
ASTM D5035	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)
ASTM D6111	Standard test method for bulk density and specific gravity of plastic lumber and shapes by displacement
ASTM D8257/D8257M	Standard specification for mechanically attached Polymeric roof underlayment Used in steep slope roofing
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/E331M	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 E661	Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads
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 E1252	Standard practice for general techniques for obtaining infrared spectra for qualitative analysis
ASTM E2068	Standard Test Method for Determination of Operating Force of Sliding Windows and Doors
ASTM E2556	Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment
ASTM E2634	Standard Specification for Flat Wall Insulating Concrete Form (ICF) Systems
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 G151	Standard Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources
ASTM G153	Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials
ASTM G154	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials

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ASTM G155	Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials
ICC ES AC02	Reflective insulation (test methods referenced in section 3.0)
ICC ES AC04	Sandwich panels (test methods referenced in section 4.0)
ICC ES AC05	Sandwich panel adhesives (test methods referenced in sections 5.0, 6.0, 7.0 and 8.0)
ICC ES AC11	Cementitious exterior wall coatings (test methods referenced in section 4.0)
ICC ES AC12	Foam plastic insulation (test methods referenced in section 4.0)
ICC ES AC24	Exterior insulation and finish systems (test methods referenced in section 6.0)
ICC ES AC25	Metal composite material (MCM) (test methods referenced in sections 3.0 and 4.0)
ICC ES AC29	Cold, liquid-applied, below-grade, exterior dampproofing and waterproofing materials (test methods referenced in section 4.0)
ICC ES AC38	Water-resistive barriers (test methods referenced in sections 3.3.1, 3.3.2, 3.3.3, 3.3.3, 3.4 and 4.0) (exclude CI 4.3)
ICC ES AC39	Walking decks (test methods referenced in sections 3.3.1, 3.3.2, 3.3.3, 3.3.3, 3.4 and 4.0)
ICC ES AC48	Self-adhered roof underlayments for use as ice barriers (test methods referenced in section 4.0)
ICC ES AC59	Direct-applied exterior finish systems (DEFS) (test methods referenced in section 5.0)
ICC ES AC75	Membrane roof-covering systems (test methods referenced in section 4.0)
ICC ES AC114	Rigid polyethylene, below-grade, damp proofing and wall waterproofing material (test methods referenced in section 4.0)
ICC ES AC115	Waterproof membranes for flooring and shower lining (test methods referenced in section 3.0)
ICC ES AC148	Flexible flashing materials (test methods referenced in sections 3.0 and 4.0, except section 4.2)
ICC ES AC166	Metal roof coverings (test methods referenced in section 4.0)
ICC ES AC174	Deck board span ratings and guardrail systems (guards and handrails) (test methods referenced in section 4.0, except section 3.9)
ICC ES AC188	Roof underlayments (test methods referenced in section 4.0, table 1)
ICC ES AC207	Polypropylene roof underlayments (test methods referenced in section 4.0)
ICC ES AC212	Water-resistive coatings used as water-resistive barriers over exterior sheathing (test methods referenced in section 4.0)

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ICC ES AC219	Exterior insulation and finish systems (test methods referenced in sections 3.0 and 4.0)
ICC ES AC235	EIFS clad drainage wall assemblies (test methods referenced in sections 3.0 and 4.0)
ICC ES AC294	Shutters for protection against wind-borne debris (test methods referenced in sections 3.0 and 4.0)
ICC ES AC353	Stay-in-place, Foam Plastic Insulating Concrete Form (ICF) Systems for Solid Concrete Walls - for use with 2015 and 2012 I-Codes
ICC ES AC365	Building-integrated photovoltaic (BIPV) roof covering systems (test methods referenced in section 4.2)
ICC ES AC377	Spray-applied foam plastic insulation
ICC ES AC439	Glass Railing and Balustrade System
UL 997	Standard for safety wind resistance of prepared roof covering materials
UL 1784	Standard for air leakage tests of door assemblies and other opening protectives
UL 2218	Standard for impact resistance of prepared roof covering materials
Structural	
AAMA 501.4	Recommended static test method for evaluating curtain wall and storefront systems subjected to seismic and wind induced interstory drifts
AISI S904	Standard test methods for determining the tensile and shear strengths of screws
AISI TS-5-02	Test methods for mechanically fastened cold-formed steel connections
ANSI Z97.1	Standard for safety glazing materials used in buildings -safety performance specifications and methods of test [Exclude 4.7 (Rockwell Hardness) and 5.4.2]
ASTM D143	Standard test methods for small clear specimens of timber
ASTM D198	Standard test methods of static tests of lumber in structural sizes
ASTM D226/D226M	Standard specification for asphalt-saturated organic felt used in roofing and waterproofing
ASTM D906	Standard test method for strength properties of adhesives in plywood type construction in shear by tension loading
ASTM D1761	Standard test methods for mechanical fasteners in wood
ASTM D5055	Standard specification for establishing and monitoring structural capacities of prefabricated wood i-joists
ASTM D5456	Standard specification for evaluation of structural composite lumber products

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ASTM D6109	Standard test methods for flexural properties of unreinforced and reinforced plastic lumber and related products (exclude Method B)
ASTM D6117	Standard test methods for mechanical fasteners in plastic lumber and shapes
ASTM E8/E8M	Standard test methods for tension testing of metallic materials
ASTM E72	Standard test methods of conducting strength tests of panels for building construction
ASTM E96/E96M	Standard test methods for water vapor transmission of materials
ASTM E330/E330M	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
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 E2568	Standard specification for PB exterior insulation and finish system
CPSC 16 CFR 1201	Commercial practices - safety standard for architectural glazing materials
ICC ES AC07	Special roofing systems (test methods referenced in section 4.0)
ICC ES AC13	Joist hangers and similar devices (test methods referenced in section 3.0)
ICC ES AC14	Prefabricated wood I-joists (test methods referenced in section 4.0 and appendix A)
ICC ES AC16	Plastic glazed skylights (test methods referenced in sections A3.0 and A4.0)
ICC ES AC47	Structural wood-based products (test methods referenced in section 3.0)
ICC ES AC86	Cold-formed steel framing members-interior nonload-bearing wall assemblies (test methods referenced in sections 3.0 and 4.0)
ICC ES AC109	Thermoplastic composite lumber products (test methods referenced in section 4.0)
ICC ES AC116	Nails (test methods referenced in section 3.0)
ICC ES AC124	Rim board products (test methods referenced in sections 3.0 and 4.0)
ICC ES AC130	Prefabricated wood shear panels (test methods referenced in section 5.0)
ICC ES AC151	Fixed-height, low-profile, raised floor systems (test methods referenced in section 3.0)
ICC ES AC273	Handrails and guards (test methods referenced in sections 3.0 and 4.0)
ICC ES AC300	Access floors (test methods referenced in sections 3.0 and 4.0)

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ICC ES AC359	Exterior wall coverings of steel-backed veneer panels attached to walls utilizing steel framing and brackets (test methods referenced in sections 3.0 and 4.0, excluding sections 3.2.1.2.4.1 and 3.2.1.3.1 ASTM G21 and G22 only)
UL 580	Standard for tests for uplift resistance of roof assemblies
UL 1897	Standard for uplift tests for roof covering systems

AAMA: American Architectural Manufacturers Association

AATCC: American Association of Textile Chemists and Colorists

AISI: American Iron and Steel Institute

CPSC: Consumer Product Safety Commission

NFPA: National Fire Protection Association

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

UL: Underwriters Laboratories

ULC: Underwriters Laboratories Canada