

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 Home Innovation Research Labs, Inc. located at 400 Prince George's Boulevard, Upper Marlboro, MD 20774 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:

International Accreditation Service (IAS) TL-205

International Accreditation Service (IAS) AA-663 (Type A)

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:

Thomas M. Jr. Kenney, P.E.

This Certification and Registration Approved: February 24, 2022

This Certification and Registration Expires : March 6, 2027

Certification No. : 22-0120.01 Renews: 16-1213.01

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.



CERTIFICATE OF ACCREDITATION

This is to attest that

HOME INNOVATION RESEARCH LABS

400 PRINCE GEORGE
UPPER MARLBORO, MARYLAND 20774-8731, U.S.A.

Testing Laboratory TL-205

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 November 16, 2021



A handwritten signature in black ink that reads "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

HOME INNOVATION RESEARCH LABS

www.homeinnovation.com

Contact Name Deanna Seale, P.E.

Contact Phone +1-301-430-6219

Accredited to ISO/IEC 17025:2017

Effective Date November 16, 2021

Physical	
AISI S904	Standard Test Methods for Determining the Tensile and Shear Strengths of Screws
ANSI/ICPA SS-1	Performance standard for solid surface materials
ANSI/KCMA A161.1	Kitchen cabinets
ASTM A90/A90M	Standard test method for weight [mass] of coating on iron and steel articles with zinc or zinc-alloy coatings
ASTM A185/A185M	Standard specification for steel welded wire reinforcement, plain, for concrete
ASTM A370	Standard test methods and definitions for mechanical testing of steel products (except sections 15 to 26)
ASTM A853	Standard specification for steel wire, carbon, for general use
ASTM B117	Standard practice for operating salt spray (fog) apparatus
ASTM B368	Standard test method for copper-accelerated acetic acid-salt spray (fog) testing (CASS test)
ASTM C39/C39M	Standard test method for compressive strength of cylindrical concrete specimens
ASTM C78/C78M	Standard test method for flexural strength of concrete (using simple beam with third-point loading)
ASTM C140/C140M	Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units
ASTM C272/C272M	Standard test method for water absorption of core materials for sandwich constructions
ASTM C473	Standard test methods for physical testing of gypsum panel products
ASTM C645	Standard specification for nonstructural steel framing members
ASTM C1892/C1892M	Standard Test Methods for Strength of Anchors in Masonry
ASTM D143	Standard Test Methods for Small Clear Specimens of Timber
ASTM D198	Standard Test Methods of Static Tests of Lumber in Structural Sizes

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ASTM D256	Standard test methods for determining the IZOD pendulum impact resistance of plastics
ASTM D570	Standard test method for water absorption of plastics
ASTM D610	Standard practice for evaluating degree of rusting on painted steel surfaces
ASTM D638	Standard test method for tensile properties of plastics
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 D1037	Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; (Except Section 17 and 18)
ASTM D1622/D1622M	Standard test method for apparent density of rigid cellular plastics
ASTM D1735	Standard practice for testing water resistance of coatings using water fog apparatus
ASTM D1748	Standard test method for rust protection by metal preservatives in the humidity cabinet
ASTM D1761	Standard Test Methods for Mechanical Fasteners in Wood and Wood-Based Materials
ASTM D2126	Standard test method for response of rigid cellular plastics to thermal and humid aging
ASTM D2240	Standard test method for rubber property—durometer hardness
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 D2395	Standard Test Methods for Density and Specific Gravity (Relative Density) of Wood and Wood-Based Materials
ASTM D2565	Standard practice for xenon-arc exposure of plastics intended for outdoor applications
ASTM D2583	Standard test method for indentation hardness of rigid plastics by means of a Barcol impressor
ASTM D2718	Standard Test Methods for Structural Panels in Planar Shear (Rolling Shear)
ASTM D2719	Standard Test Methods for Structural Panels in Shear Through-the-Thickness
ASTM D2915	Standard Practice for Sampling and Data-Analysis for Structural Wood and Wood-Based Products

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ASTM D3043	Standard Test Methods for Structural Panels in Flexure
ASTM D3500	Standard Test Methods for Structural Panels in Tension
ASTM D3501	Standard Test Methods for Wood-Based Structural Panels in Compression
ASTM D4442	Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials
ASTM D4444	Standard Test Method for Laboratory Standardization and Calibration of Hand-Held Moisture Meters
ASTM D4761	Standard Test Methods for Mechanical Properties of Lumber and Wood-Base Structural Material
ASTM D4933	Standard Guide for Moisture Conditioning of Wood and Wood-Based Materials
ASTM D5206	Standard test method for windload resistance of rigid plastic siding
ASTM D5456	Standard Specification for Evaluation of Structural Composite Lumber Products
ASTM D5457	Standard Specification for Computing Reference Resistance of Wood-Based Materials and Structural Connections for Load and Resistance Factor Design
ASTM D6108	Standard test method for compressive properties of plastic lumber and shapes
ASTM D6111	Standard test method for bulk density and specific gravity of plastic lumber and shapes by displacement
ASTM D6341	Standard test method for determination of the linear coefficient of thermal expansion of plastic lumber and plastic lumber shapes between -30 and 140°F (-34.4 and 60°C)
ASTM D6815	Standard Specification for Evaluation of Duration of Load and Creep Effects of Wood and Wood-Based Products
ASTM D7147	Standard Specification for Testing and Establishing Allowable Loads of Joist Hangers
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 E73	Standard practice for static load testing of truss assemblies
ASTM E96/E96M	Standard test methods for water vapor transmission of materials
ASTM E196	Standard practice for gravity load testing of floors and low slope roofs
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 E330/E330M	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference

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ASTM E331	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by uniform static air pressure difference
ASTM E455	Standard test method for static load testing of framed floor or roof diaphragm constructions for buildings
ASTM E488/E488M	Standard Test Methods for Strength of Anchors in Concrete Elements (Except 9.5.3 Shock Test Procedure and Except 12.3.5 Test Method B)
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference
ASTM E564	Standard practice for static load test for shear resistance of framed walls for buildings
ASTM E1190	Standard Test Methods for Strength of Power-Actuated Fasteners Installed in Structural Members
ASTM E1996	Standard specification for performance of exterior windows, curtain walls, doors, and impact protective systems impacted by windborne debris in hurricanes
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 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 F1575	Standard Test Method for Determining Bending Yield Moment of Nails
ASTM G85	Standard Practice for Modified Salt Spray (Fog) Testing
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
CSA/CAN Standard 0325	Exterior type adhesive construction sheathing
EN 1382	Timber Structures - Test Methods - Withdrawal Capacity of Timber Fasteners
EN 1383	Timber structures - Test methods - Pull through resistance of timber fasteners
ICC ES AC13	Joist hangers and similar devices
ICC ES AC70	Power-actuated fasteners driven into concrete, steel and masonry elements (sections 3.0 and 4.0)
ICC ES AC71	Foam plastic sheathing panels used as weather-resistive barriers (section 3.0)
ICC ES AC86	Cold-formed steel framing members-interior non-load-bearing wall assemblies (sections 3.0 and 4.0)

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ICC ES AC257	Acceptance criteria for corrosion-resistant fasteners and evaluation of corrosion effects of wood treatments
ICC ES AC118	Tapping screw fasteners (test methods referenced in sections 3.0 and 4.0)
ICC ES AC124	Rim board products (sections 3.0 and 4.0)
ICC ES AC130	Prefabricated wood shear panels (section 5.0)
ICC ES AC174	Deck board span ratings and guardrail systems (guards and handrails) (except sections 3.9 and 3.10)
ICC ES AC182	Wood structural panels (sections 3.0 and 4.0)
ICC ES AC233	Acceptance Criteria for Dowel-Type Threaded Fasteners used in Wood
ICC ES AC273	Handrails and guards (sections 3.0 and 4.0)
ICC ES AC344	Riveted connections of cold-formed steel structural members using self-piercing rivets (test methods referenced in sections 3.0)
ICC ES AC389	Composite siding containing inorganic microspheres and proprietary resins, used as an exterior wall cladding (sections 3 and 4, except sections 3.6, 3.8 and 4.4)
NEMA LD 3	High-pressure decorative laminates (HPDL) (sections 3.2, 3.3, 3.5, 3.6, 3.8, 3.9 and 3.16 only)
United States Department of Commerce Product Standard PS-1	Structural Plywood (Exclusion Cl. 6.1.3.1 Heat Performance Test)
United States Department of Commerce Product Standard PS-2	Performance based standard for wood-based structural use panels (Sections 5.3, 5.4, 6.0, and 7.0)
Plumbing	
ANSI/ICC A117.1	Accessible and usable buildings and facilities (chapter 6 only)
ASME A112.19.2/CSA B45.1	Ceramic plumbing fixtures
ASME A112.19.3/CSA B45.4	Stainless steel plumbing fixtures
ASME A112.19.7/CSA B45.10	Hydromassage bathtub systems
ASME A112.19.15	Bathtubs/Whirlpool Bathtubs With Pressure Sealed Doors
ASTM F446	Standard consumer safety specification for grab bars and accessories installed in the bathing area
ASTM F462	Standard consumer safety specification for slip-resistant bathing facilities

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CSA B45.5/IAPMO Z124	Plastic plumbing fixtures
IAPMO/ANSI Z124.5	Plastic toilet (water closet) seats
IAPMO/ANSI Z124.8	Plastic bathtub liners
Thermal	
ASTM C167	Standard test methods for thickness and density of blanket or batt thermal insulations
ASTM C518	Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus
ASTM C653	Standard guide for determination of the thermal resistance of low-density blanket-type mineral fiber insulation
ASTM C665	Standard specification for mineral-fiber blanket thermal insulation for light frame construction and manufactured housing
ASTM C687	Standard practice for determination of thermal resistance of loose-fill building insulation
ASTM C739	Standard specification for cellulosic fiber loose-fill thermal insulation (sections 8 and 15 only)
ASTM C1104/C1104M	Standard test for determining the water vapor sorption of unfaced mineral fiber insulation
ASTM C1224	Standard specification for reflective insulation for building applications
ASTM C1363	Standard test method for thermal performance of building materials and envelope assemblies by means of a hot box apparatus
NAIMA 202-96	Standard for flexible fiber glass insulation to be laminated for use in metal buildings (section 6.1)
NIA	Certified faced insulation standard

AISI: American Iron and Steel Institute

CSA: Canadian Standards Association

IAPMO: The International Association of Plumbing and Mechanical Officials

NAIMA: North American Insulation Manufacturers Association

NIA: National Insulation Association

ICPA: International Cast Polymer Association

UL: Underwriters Laboratories



CERTIFICATE OF ACCREDITATION

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HOME INNOVATION RESEARCH LABS

400 PRINCE GEORGE BOULEVARD
UPPER MARLBORO, MARYLAND 20774-8731, U.S.A.

Inspection Agency AA-663 (Type A)

has met the requirements of AC98, *IAS Accreditation Criteria for Inspection Agencies*, and has demonstrated compliance with ISO/IEC Standard 17020:2012, *Conformity assessment - Requirements for the operation of various types of bodies performing inspection*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date October 21, 2021



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

President

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Contact Name Deanna Seale, P.E.

Contact Phone +1-301-430-6219

Accredited to ISO/IEC 17020:2012

Effective Date October 21, 2021

Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
Cold Formed Steel Framing	ID 1041 Product Certification of Cold Formed Steel; International Building Code (IBC) Section 2210
OSB Structural Panels	ID 1040 Product Certification of OSB Panels; CAN/CSA O325 Construction Sheathing PS2-18 Performance Standard for Wood Structural Panels
Plastic and Composite Lumber	ID 1039 Composite Lumber; ICC-ES Acceptance Criteria AC47 and AC174
Plumbing Fixtures	ID 1036 Certification Program for Plastic Plumbing Products; ICC A117.1, CSA B45.5/IAPMO Z124, ANSI/IAPMO Z124.8, ASME A112.19.7/CSA B45.10, ASME A112.19.15
Thermal Insulation	ID 1038 Certification Program for Thermal Insulation Product; NAIMA-202; NIA Certified Faced Insulation Standard; ID 1096 Inspection and Factory Guidelines for Pneumatically Applied Insulation; ID 1100 Inspection and Testing for Batt Insulation Certification Program; ASTM C167, C168, C518, C653
Manufacturing in fields specified above	ICC-ES Acceptance Criteria AC304