

Miami-Dade County, Florida

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

BOARD AND CODE ADMINISTRATION DIVISION

PRODUCT CONTROL SECTION

Laboratory Certificate



11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
T (786) 315-2590 Fax (786) 315-2599

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

American Association for Laboratory
Accreditation Certificate No. 6754.03

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:

Deanna Marie Seale, P.E.

This Certification and Registration Approved: February 20, 2025

This Certification and Registration Expires : March 6, 2027

Certification No. : 25-0203.02 Revises: 23-0314.01

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 TAS301-94.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

HOME INNOVATION RESEARCH LABS
400 Prince George's Blvd.
Upper Marlboro, MD 20774
Deanna Seale Phone: 301-430-6219

CONSTRUCTION MATERIALS

Valid To: July 31, 2025

Certificate Number: 6754.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on walls, floors, plumbing materials, partitions, columns, fire protection doors, seals, beams, duct walls, roofs, girders, access doors in floors and ceilings, fire resistance glazing and other building materials:

Test Technology:

ANSI/ICPA SS-1

ANSI/KCMA A161.1

ASTM A90/A90M

ASTM A370

ASTM A853

ASTM C39/C39M

ASTM C78/C78M

ASTM C140/C140M

ASTM C272/C272M

Test Methods:

Performance Standard for Solid Surface Materials

Kitchen Cabinets

Standard Test Method for Weight [mass] of Coating on Iron and Steel Articles with Zinc or Zinc-alloy Coatings

Standard Test Methods and Definitions for Mechanical Testing of Steel Products (*excluding sections 15 to 26*)

Standard Specification for Steel Wire, Carbon, for General Use

Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens

Standard Test Method for flexural strength of concrete (using simple beam with third-point loading)

Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units

Standard Test Method for Water Absorption of Core Materials for Sandwich Constructions

Test Technology:

ASTM C473

ASTM C645

ASTM D143

ASTM D198

ASTM D570

ASTM D638

ASTM D790

ASTM D792

ASTM D1037

ASTM D1761

ASTM D2017

ASTM D2126

ASTM D2244

ASTM D2247

ASTM D2395

Test Methods:

Standard Test Methods for Physical Testing of Gypsum Panel Products

Standard Specification for Nonstructural Steel Framing Members

Standard Test Methods for Small Clear Specimens of Timber

Standard Test Methods of Static Tests of Lumber in Structural Sizes

Standard Test Method for Water Absorption of Plastics

Standard Test Method for Tensile Properties of Plastics

Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials

Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement

Standard Test Methods for Evaluating Properties of Wood-based Fiber and Particle Panel Materials; *(Excluding Sections 17 and 18)*

Standard Test Methods for Mechanical Fasteners in Wood and Wood-based Materials

Standard Test Method of Accelerated Laboratory Test of Natural Decay Resistance of Woods

Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging

Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates

Standard Practice for Testing Water Resistance of Coatings in 100 % Relative Humidity

Standard Test Methods for Density and Specific Gravity (Relative Density) of Wood and Wood-based Materials

Test Technology:

ASTM D2565

ASTM D2583

ASTM D2718

ASTM D2915

ASTM D3043

ASTM D3500

ASTM D3501

ASTM D4442

ASTM D4444

ASTM D4761

ASTM D4933

ASTM D5206

ASTM D5456

ASTM D6341

ASTM D6815

Test Methods:

Standard Practice for Xenon-arc Exposure of Plastics intended for Outdoor Applications

Standard Test Method for Indentation Hardness of Rigid Plastics by means of a Barcol Impressor

Standard Test Methods for Structural Panels in Planar Shear (Rolling Shear)

Standard Practice for Sampling and Data-Analysis for Structural Wood and Wood-based Products

Standard Test Methods for Structural Panels in Flexure

Standard Test Methods for Structural Panels in Tension

Standard Test Methods for Wood-based Structural Panels in Compression

Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-based Materials

Standard Test Method for Laboratory Standardization and Calibration of Hand-held Moisture Meters

Standard Test Methods for Mechanical Properties of Lumber and Wood-based Structural Material

Standard Guide for Moisture Conditioning of Wood and Wood-based Materials

Standard Test Method for Wind Load Resistance of Rigid Plastic Siding

Standard Specification for Evaluation of Structural Composite Lumber Products

Standard Test Method for Determination of the Linear Coefficient of Thermal Expansion of Plastic Lumber and Plastic Lumber Shapes (-30 to 140) °F (-34.4 to 60) °C

Standard Specification for Evaluation of Duration of Load and Creep Effects of Wood and Wood-based Products

Test Technology:

ASTM D7031 ADD

ASTM D7032

ASTM D7147

ASTM E8/E8M

ASTM E72

ASTM E96/E96M

ASTM E283

ASTM E330/E330M

ASTM E331

ASTM E547

ASTM E564

ASTM E1996

ASTM E2126

Test Methods:

Standard Guide for Evaluating Mechanical and Physical Properties of Wood-Plastic Composite Products

Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite and Plastic Lumber Deck Boards, Stair Treads, Guards, and Handrails

Standard Specification for Testing and Establishing Allowable Loads of Joist Hangers

Standard Test Methods for Tension Testing of Metallic Materials

Standard Test Methods of Conducting Strength Tests of Panels for Building Construction

Standard Test Methods for Water Vapor Transmission of Materials

Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors under Specified Pressure Differences Across the Specimen

Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference

Standard Practice for Static Load Test for Shear Resistance of Framed Walls for Buildings

Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes

Standard Test Methods for Cyclic (Reversed) Load Test for Shear Resistance of Vertical Elements of the Lateral Force Resisting Systems for Buildings

Test Technology:

ASTM E2273

ASTM E2357

ASTM F1575

ASTM G154

ASTM G155

CSA/CAN Standard 0325

ICC ES AC13

ICC ES AC71

ICC ES AC86

ICC ES AC257

ICC ES AC130

ICC ES AC174

ICC ES AC182

ICC ES AC389

NEMA LD 3

United States Department of Commerce Product
Standard PS-1

(A2LA Certificate No. 6754.03) Revised 06/11/2024

Test Methods:

Standard Test Method for Determining the Drainage
Efficiency of Exterior Insulation and Finish Systems
(EIFS) Clad Wall Assemblies

Standard Test Method for Determining Air Leakage
of Air Barrier Assemblies

Standard Test Method for Determining Bending
Yield Moment of Nails

Standard Practice for Operating Fluorescent
Ultraviolet (UV) Lamp Apparatus for Exposure of
Nonmetallic Materials

Standard Practice for Operating Xenon Arc Light
Apparatus for Exposure of Non-metallic Materials

Exterior Type Adhesive Construction Sheathing

Joist Hangers and Similar Devices

Foam Plastic Sheathing Panels used as Weather-
resistive Barriers (*Section 3.0 only*)

Cold-formed Steel Framing Members-interior Non-
load-bearing Wall Assemblies (*Sections 3.0
and 4.0 only*)

Acceptance Criteria for Corrosion-resistant Fasteners
and Evaluation of Corrosion Effects of Wood
Treatments

Prefabricated Wood Shear Panels (*Section 5.0 only*)

Deck Board Span Ratings and Guardrail Systems
(Guards and Handrails) (*excluding Sections 3.9 and
3.10*)

Wood Structural Panels (*Sections 3.0 and 4.0 only*)

Composite Siding Containing Inorganic
Microspheres and Proprietary Resins, used as an
Exterior Wall Cladding (*Sections 3 and 4 only,
excluding Sections 3.6, 3.8 and 4.4*)

High-pressure Decorative Laminates (HPDL)
(*Sections 3.2, 3.3, 3.5, 3.6, 3.8, 3.9 and 3.16 only*)

Structural Plywood (*Excluding Clause 6.1.3.1 Heat
Performance Test*)



Test Technology:

United States Department of Commerce Product
Standard PS-2

Plumbing Materials

ANSI/ICC A117.1

ASME A112.19.7/CSA B45.10

ASME A112.19.15

ASTM F446

ASTM F462

CSA B45.5/IAPMO Z124

IAPMO/ANSI Z124.8

Insulation Materials

ASTM C167

ASTM C518

ASTM C653

ASTM C665

ASTM C687

ASTM C739

ASTM C1104/C1104M

Test Methods:

Performance Based Standard

Accessible and usable Buildings and Facilities
(Chapter 6 only)

Hydromassage Bathtub Systems

Bathtubs/Whirlpool Bathtubs with Pressure Sealed
Doors

Standard Consumer Safety Specification for Grab
Bars and Accessories Installed in the Bathing Area

Standard Consumer Safety Specification for Slip-
resistant Bathing Facilities

Plastic Plumbing Fixtures

Plastic Bathtub Liners

Standard Test Methods for Thickness and Density of
Blanket or Batt Thermal Insulations

Standard Test Method for Steady-state Thermal
Transmission Properties by Means of the Heat Flow
Meter Apparatus

Standard Guide for Determination of the Thermal
Resistance of Low-density Blanket-type Mineral
Fiber Insulation

Standard Specification for Mineral-fiber Blanket
Thermal Insulation for Light Frame Construction and
Manufactured Housing

Standard Practice for Determination of Thermal
Resistance of Loose-fill Building Insulation

Standard Specification for Cellulosic Fiber Loose-fill
Thermal Insulation (Sections 8 and 15 only)

Standard Test for Determining the Water Vapor
Sorption of Unfaced Mineral Fiber Insulation

Test Technology:

Insulation Materials (cont'd)

ASTM C1224

ASTM C1363

NAIMA 202-96

NIA

Fire Testing

ASTM E84

ASTM E119

ASTM E136

ASTM E814

ASTM E1725

ASTM E2226

ASTM E2307

ASTM E2768

CAN / ULC S101

CAN / ULC S102

Test Methods:

Standard Specification for Reflective Insulation for Building Applications

Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus

Standard for Flexible Fiber Glass Insulation to be Laminated for use in Metal Buildings (*Section 6.1 only*)

Certified Faced Insulation Standard

Standard Test Method for Surface Burning Characteristics of Building Material

Standard Test Methods for Fire Tests of Building Construction and Materials

Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750° C

Standard Test Method for Fire Tests of Penetration Firestop Systems

Standard Test Methods for Fire Tests of Fire-Resistive Barrier Systems for Electrical System Components

Standard Practice for Application of Hose Stream

Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus

Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)

Standard Methods of Fire Endurance Tests of Building Construction and Materials

Standard Method of Test for Surface Burning Characteristics of building Materials and Assemblies

Test Technology:

Fire Testing (cont'd)

CAN / ULC S102.2

CAN / ULC S104
CAN/ULC S115

CAN/ULC S138

CAN/ULC S145

CAN/ULC 9705

NFPA 252

NFPA 275

NFPA 285

NFPA 286

NFPA 288

UL 9

UL 10B

UL 10C

UL 263

UL 723

UL 1479

Test Methods:

Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies

Standard Method for Fire Tests of Door Assemblies
Standard Method of Fire Tests of Firestop Systems

Standard Method of Test for Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration

Standard Methods of Test for the Evaluation of Protective Coverings for Foamed Plastic Insulation – Full-Scale Room Test

Fire Tests – Full-Scale Room Tests for Surface Products

Standard Methods of Fire Tests of Door Assemblies

Standard Method of Fire Tests for the Evaluation of Thermal Barriers

Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components

Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth

Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies

Standard for Fire Tests of Window Assemblies

Standard for Fire Tests of Door Assemblies

Positive Pressure Fire Tests of Door Assemblies

Fire Tests of Building Construction and Materials

Standard for Test for Surface Burning Characteristics of Building Materials

Fire Tests of Penetration Firestops

Test Technology:

Fire Testing (cont'd)

UL 1715

UL1724

UL 2043

UL 2079

Test Methods:

Standard for Fire Test of Interior Finish Material

Outline of Investigation for Fire Tests for Electrical
Circuit Protective Systems

Standard for Fire Test for Heat and Visible Smoke
Release for Discrete Products and Their Accessories
Installed in Air-Handling Spa

Tests for Fire Resistance of Building Joint Systems





Accredited Laboratory

A2LA has accredited

HOME INNOVATION RESEARCH LABS

Upper Marlboro, MD

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017*).



Presented this 16th day of February 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6754.03
Valid to July 31, 2025

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