

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:

Nay Shah, P.E.

This Certification and Registration Approved: March 6, 2023

This Certification and Registration Expires : March 6, 2027

Certification No. : 223-0314.01 Revises: 22-0916.01

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 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, 2023

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:

AISI S904

ANSI/ICPA SS-1

ANSI/KCMA A161.1

ASTM A90/A90M

ASTM A185/A185M

ASTM A370

ASTM A853

ASTM B117

ASTM B368

Test Methods¹:

Standard Test Methods for Determining the Tensile and Shear Strengths of Screws

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 Specification for Steel Welded Wire Reinforcement, Plain, for Concrete

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 Practice for Operating Salt Spray (Fog) Apparatus

Standard Test Method for Copper-accelerated Acetic Acid-salt Spray (Fog) Testing (CASS Test)

Test Technology:

ASTM C39/C39M

ASTM C78/C78M

ASTM C140/C140M

ASTM C272/C272M

ASTM C473

ASTM C645

ASTM C1892/C1892M

ASTM D143

ASTM D198

ASTM D256

ASTM D570

ASTM D610

ASTM D638

ASTM D790

ASTM D792

Test Methods¹:

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

Standard Test Methods for Physical Testing of Gypsum Panel Products

Standard Specification for Nonstructural Steel Framing Members

Standard Test Methods for Strength of Anchors in Masonry

Standard Test Methods for Small Clear Specimens of Timber

Standard Test Methods of Static Tests of Lumber in Structural Sizes

Standard Test Methods for Determining the IZOD Pendulum Impact Resistance of Plastics

Standard Test Method for Water Absorption of Plastics

Standard Practice for Evaluating Degree of Rusting on Painted Steel Surfaces

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

Test Technology:

ASTM D1037

ASTM D1622/D1622M

ASTM D1735

ASTM D1748

ASTM D1761

ASTM D2126

ASTM D2240

ASTM D2244

ASTM D2247

ASTM D2395

ASTM D2565

ASTM D2583

ASTM D2718

ASTM D2719

ASTM D2915

Test Methods¹:

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

Standard Test Method for Apparent Density of Rigid Cellular Plastics

Standard Practice for Testing Water Resistance of Coatings using Water Fog Apparatus

Standard Test Method for Rust Protection by Metal Preservatives in the Humidity Cabinet

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

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

Standard Test Method for Rubber Property - Durometer Hardness

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

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 Test Methods for Structural Panels in Shear Through-the-thickness

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

Test Technology:

ASTM D3043

ASTM D3500

ASTM D3501

ASTM D4442

ASTM D4444

ASTM D4761

ASTM D4933

ASTM D5206

ASTM D5456

ASTM D5457

ASTM D6108

ASTM D6111

ASTM D6341

ASTM D6815

Test Methods¹:

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 Specification for Computing Reference Resistance of Wood-based Materials and Structural Connections for Load and Resistance Factor Design

Standard Test Method for Compressive Properties of Plastic Lumber and Shapes

Standard Test Method for Bulk Density and Specific Gravity of Plastic Lumber and Shapes by Displacement

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 D7147

ASTM E8/E8M

ASTM E72

ASTM E73

ASTM E96/E96M

ASTM E196

ASTM E283

ASTM E330/E330M

ASTM E331

ASTM E455

ASTM E488/E488M

ASTM E547

ASTM E564

ASTM E1190

Test Methods¹:

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 Practice for Static Load Testing of Truss Assemblies

Standard Test Methods for Water Vapor Transmission of Materials

Standard Practice for Gravity Load Testing of Floors and Low Slope Roofs

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 Static Load Testing of Framed Floor or Roof Diaphragm Constructions for Buildings

Standard Test Methods for Strength of Anchors in Concrete Elements (*Excluding 9.5.3 Shock Test Procedure and 12.3.5 Test Method B*)

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 Test Methods for Strength of Power-Actuated Fasteners Installed in Structural Members

Test Technology:

ASTM E1996

ASTM E2126

ASTM E2273

ASTM E2357

ASTM F1575

ASTM G85

ASTM G154

ASTM G155

CSA/CAN Standard 0325

EN 1382

EN 1383

ICC ES AC13

ICC ES AC70

ICC ES AC71

ICC ES AC86

Test Methods¹:

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

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 Modified Salt Spray (Fog) Testing

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

Timber Structures - Test Methods - Withdrawal Capacity of Timber Fasteners

Timber Structures - Test Methods - Pull Through Resistance of Timber Fasteners

Joist Hangers and Similar Devices

Power-actuated Fasteners Driven into Concrete, Steel and Masonry Elements (*Sections 3.0 and 4.0 only*)

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*)

Test Technology:

ICC ES AC257

ICC ES AC118

ICC ES AC124

ICC ES AC130

ICC ES AC174

ICC ES AC182

ICC ES AC233

ICC ES AC273

ICC ES AC344

ICC ES AC389

NEMA LD 3

United States Department of Commerce Product
Standard PS-1United States Department of Commerce Product
Standard PS-2***Plumbing Materials***

ANSI/ICC A117.1

ASME A112.19.2/CSA B45.1

ASME A112.19.3/CSA B45.4

Test Methods¹:Acceptance Criteria for Corrosion-resistant Fasteners
and Evaluation of Corrosion Effects of Wood
TreatmentsTapping Screw Fasteners (*Test Methods referenced
in Sections 3.0 and 4.0 only*)Rim Board Products (*Sections 3.0 and 4.0 only*)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*)Acceptance Criteria for Dowel-type Threaded
Fasteners used in WoodHandrails and Guards (*Sections 3.0 and 4.0 only*)Riveted Connections of Cold-formed Steel Structural
Members using Self-piercing Rivets (*Test methods
referenced in sections 3.0*)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*)

Performance Based Standard

Accessible and usable Buildings and Facilities
(*Chapter 6 only*)

Ceramic Plumbing Fixtures

Stainless Steel Plumbing Fixtures

Test Technology:

Plumbing Materials (cont'd)

ASME A112.19.7/CSA B45.10

ASME A112.19.15

ASTM F446

ASTM F462

CSA B45.5/IAPMO Z124

IAPMO/ANSI Z124.5

IAPMO/ANSI Z124.8

Insulation Materials

ASTM C167

ASTM C518

ASTM C653

ASTM C665

ASTM C687

ASTM C739

ASTM C1104/C1104M

ASTM C1224

Test Methods¹:

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 Toilet (Water Closet) Seats

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

Standard Specification for Reflective Insulation for Building Applications

Test Technology:

Insulation Materials (cont'd)

ASTM C1363

NAIMA 202-96

NIA

Test Methods¹:

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

¹When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.





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 laboratory also meets the requirements of any additional program requirements in the Construction Materials field. 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 19th day of July 2022

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6754.03
Valid to July 31, 2023

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