CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Center for Building Innovation, LLC
6300 Enterprise Lane
Madison, WI 53719

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 05 February 2025

Certificate Number: AT-1373

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Center for Building Innovation, LLC

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TESTING

Valid to: **February 5, 2025** Certificate Number: **AT-1373**

Construction Materials

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Compression, Transverse, Concentrated Load, Shear, Load, Deflection	ASTM C1717	Concrete/Masonry	Load Cells, String Potentiometers, LVDT's, Calipers
Compression, Tension, Transverse, Concentrated Load, Shear, Load, Deflection	ASTM E72	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Load, Deflection	ASTM E73	Wood/Lumber, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Load, Deflection	ASTM E330	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Pressure Sensors, String Potentiometers, LVDT's, Calipers
Shear, Load, Deflection	ASTM E455	Wood/Lumber, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Shear, Load, Deflection	ASTM E519	Concrete/Masonry	Load Cells, String Potentiometers, LVDT's, Calipers
Shear, Load, Deflection	ASTM E564	Wood/Lumber, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Load, Deflection	ASTM E935	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Load, Deflection	ASTM E1592	Steel/Metal	Pressure Sensors, String Potentiometers, LVDT's, Calipers
Shear, Load, Deflection	ASTM E2126	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Tension, Transverse, Load, Deflection	ASTM E2127	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Transverse, Concentrated Load	ASTM E2322	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Load, Deflection	TPI 2	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Water Penetration	ASTM E331	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Pressure Sensors, Spray Nozzles
Water Penetration	ASTM E1105	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Pressure Sensors, Spray Nozzles
Air Leakage	ASTM E783	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Pressure Sensors, Flow Meter
Drainage Efficiency	ASTM E2273	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Scales, Flow Meter, Spray Nozzles

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Tension, Shear, Monotonic Load, Dynamic Load	ACI 355.2	Concrete/Masonry, Steel/Metal	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Tension, Shear	AISI S904	Steel/Metal	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Tension, Shear	AISI S905	Steel/Metal	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers, Extensometers
Transverse, Load, Deflection	AISI S912	Steel/Metal	Pressure Sensors, String Potentiometers, LVDT's, Calipers, Micrometers, Extensometers
Tension, Compression, Load, Deflection	AISI S913	Steel/Metal	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Gravity, Uplift, Load, Deflection	AISI S914	Steel/Metal	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Torsion, Tension, Compression, Load, Deflection	AISI S915	Steel/Metal	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Withdrawal, Lateral Resistance, Load, Deflection	ASTM D1761	Wood/Lumber, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Lateral Resistance, Load, Deflection	ASTM D5652	Wood/Lumber, Steel/Metal, Composites	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Gravity, Uplift, Load, Deflection	ASTM D7147	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Pull-Through Resistance	ASTM D7332	Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Tension, Shear, Flexure	ASTM E894	Wood/Lumber, Concrete/Masonry, Steel/Metal, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Tension, Shear, Lateral Resistance	TPI 1	Wood/Lumber, Steel/Metal	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Compression, Tension, Shear, Flexure	ASTM D143	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers, Scales
Compression, Tension, Shear, Flexure	ASTM D198	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers, Scales
Bending, Tension, Compression, Fastener Holding, Shear, Moisture	ASTM D1037	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers, Scales
Specific Gravity	ASTM D2395	Wood/Lumber	Calipers, Scales
Planar Shear	ASTM D2718	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers
Shear	ASTM D2719	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Extensometers, Deflectometers
Flexure	ASTM D3043	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers
Tension	ASTM D3500	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Extensometers, Deflectometers
Compression	ASTM D3501	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Extensometers, Deflectometers

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Moisture Content	ASTM D4442	Wood/Lumber	Scales
Compression, Tension, Shear, Flexure	ASTM D4761	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers, Scales
Reaction Capacity	ASTM D5055	Wood/Lumber	Load Cells, String Potentiometers, LVDT's, Calipers
Bending, Tension, Compression, Shear, Withdrawal, Dowel Bearing	ASTM D5456	Structural Composite Lumber	Load Cells, String Potentiometers, LVDT's, Calipers
Dowel Bearing	ASTM D5764	Structural Composite Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Extensometers, Deflectometers
Load Transfer, Compression, Connections	ASTM D7672	Rim Board Products	Load Cells, String Potentiometers, LVDT's, Calipers
Concentrated Load	ASTM E661	Wood-Based Sheathing	Load Cells, String Potentiometers, LVDT's, Calipers
Concentrated Load, Uniform Load, Racking, Fastener Resistance, Flexure, Expansion, Moisture, Stiffness	DOC PS 2	Wood-Based Panels	Load Cells, String Potentiometers, LVDT's, Calipers
Compression	ASTM C39 (informational only, not for acceptance testing)	Concrete	Load Cells, Calipers
Flexure	ASTM C78	Concrete	Load Cells, Calipers
Compression	ASTM C109	Mortar	Load Cells, Calipers

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Slump	ASTM C143	Concrete	Slump Cone
Flexure	ASTM C293	Concrete	Load Cells, Calipers
Bond Strength	ASTM C482	Cement	Load Cells, Calipers
Compression	ASTM C1019	Grout for Masonry	Load Cells, Calipers
Flexure	ASTM C1609	Fiber-Reinforced Concrete	Load Cells, String Potentiometers, LVDT's, Calipers
Slump	ASTM C1611	Self-Consolidating Concrete	Slump Cone
Flexural Bond Strength	ASTM E518	Masonry	Load Cells, String Potentiometers, LVDT's, Calipers
Rotational-Lateral Stiffness	AISI S901	Steel	Load Cells, String Potentiometers, LVDT's, Calipers
Compression	AISI S902	Steel	Load Cells, Deflectometer, Caliper
Ductility	AISI S903	Steel	Load Cells, Extensometers, Deflectometers, Calipers
Load, Deflection	AISI S906	Steel	Pressure Sensors, String Potentiometers, LVDT's, Calipers

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Shear, Load, Deflection	AISI S907	Steel/Metal, Wood/Lumber, Concrete/Masonry, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Load, Deflection	AISI S908	Steel	Pressure Sensors, String Potentiometers, LVDT's, Calipers
Web Crippling Strength	AISI S909	Steel	Load Cells, String Potentiometers, LVDT's, Calipers
Distortional Buckling	AISI S910	Steel	Load Cells, Calipers
Flexure	AISI S911	Steel	Load Cells, String Potentiometers, LVDT's, Calipers
Load, Deflection	AISI S916	Steel, Gypsum Board	Pressure Sensors, String Potentiometers, LVDT's, Calipers
Local Translational Stiffness	AISI S917	Steel/Metal, Wood/Lumber, Concrete/Masonry, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Rotational Stiffness	AISI S918	Steel/Metal, Wood/Lumber, Concrete/Masonry, Composites, Polymers/Foam/Adhesives	Load Cells, String Potentiometers, LVDT's, Calipers
Tension	ASTM A370	Steel	Load Cells, Extensometers, Calipers, Micrometers
Tension	ASTM A931	Wire Ropes and Strand	Load Cells, Calipers

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Tension	ASTM A1023	Wire Ropes and Strand	Load Cells, Calipers
Tension	ASTM E8	Metal	Load Cells, Extensometers, Calipers, Micrometers
Bending Yield Moment	ASTM F1575	Steel/Metal	Load Cells, Calipers, Micrometers
Flexure	ANSI/SBCA FS100	Foam Plastic Sheathing	Pressure Sensors, Load Cells, String Potentiometers, LVDT's, Calipers
Compression	ASTM C165	Thermal Insulations	Load Cells, Deflectometers, LVDT's, Calipers
Flexure	ASTM C203	Thermal Insulations and Cellular Plastics	Load Cells, String Potentiometers, LVDT's, Calipers
Tension	ASTM D638	Plastics	Load Cells, Extensometers, Calipers, Micrometers
Peel or Stripping Strength	ASTM D903	Adhesives	Load Cells Calipers
Compression	ASTM D1621	Rigid Cellular Plastics	Load Cells, Deflectometers, Calipers
Apparent Density	ASTM D1622	Rigid Cellular Plastics	Calipers, Scales
Tensile Strength and Adhesion	ASTM D1623	Rigid Cellular Plastics	Load Cells, Deflectometers, Extensometers, Calipers, Micrometers
Peel Resistance	ASTM D1781	Adhesives	Peeling Apparatus, Load Cells

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Short-beam Strength	ASTM D2344	Fiber Reinforced Polymer Matrix Composites	Load Cells, Calipers, Micrometers
Thickness, Pinholes, Mold Growth, Hydrostatic Pressure	ASTM D4551	PVC Plastic Flexible Concealed Water-Containment Membrane	Calipers, Micrometers, Temperature Sensors, Humidity Sensors
Bearing Response	ASTM D5961	Polymer Matrix Composite Laminates	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers
Bending, Tension, Compression, Shear, Creep-Recovery, Creep-Rupture, Fastener Holding, Moisture Absorption, Freeze-Thaw Resistance	ASTM D7031	Wood-Plastic Composites	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers, Scales, Temperature Sensors
Flexure, Temperature Effect, Moisture Effect, Freeze-Thaw Resistance, Creep-Recovery, Fastener Holding, Guardrail System	ASTM D7032	Wood-Plastic Composite and Plastic Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Micrometers, Scales, Temperature Sensors
Flexure, Bearing, Compression, Hygrothermal Cycling	ASTM D7568	Polyethylene-Based Structural-Grade Plastic Lumber	Load Cells, String Potentiometers, LVDT's, Calipers, Deflectometers, Extensometers, Micrometers, Scales, Temperature Sensors
Axial Compression	ASTM E2954	Reinforced Plastic and Polymer Matrix Composite Materials	Load Cells, String Potentiometers, LVDT's, Calipers, Deflectometers
Thermal Cycling, Hydrostatic Pressure	ASME 112.18.2	Plumbing Waste Fittings	Temperature Sensors, Flow Meters, Pressure Sensors
Dimensional, Load , Water Spray, Shear Strength, Hydrostatic Pressure, Mold Growth, Waste Fitting Connection, Point Impact Load, Area Impact Load	IAPMO PS 106	Tileable Shower Receptors and Shower Kits	Calipers, Load Cells, Temperature Sensors, Flow Meters

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials, or Products Tested	Key Equipment or Technology
Rockwell Hardness of Metallic Materials	ASTM E18	Metallic Materials	Rockwell Hardness Testing Machine with Automatic Readouts, Indenters, Test Blocks

Notes:

1. This scope is part of and must be included with the Certificate of Accreditation No. AT- 1373

Jason Stine, Vice President