



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Benchmark Holdings, LLC
2710 West 5th Avenue, Eugene, OR 97402

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

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ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Dimensional and Mechanical Testing
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

June 20, 2024

Issue Date:

June 20, 2024

Expiration Date:

October 03, 2024

Accreditation No.:

127148

Certificate No.:

L24-461

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

Benchmark Holdings, LLC

2710 West 5th Avenue, Eugene, OR 97402

Contact Name: Mr. Chris Battin Phone: 541-484-9212

Accreditation is granted to the facility to perform the following testing:

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	
F1, F2	Mechanical ^F	Wood Products / Adhesives	Shear strength Wood fiber failure	ASTM D905	Universal Test Machine - Compression Visual Evaluation	
F1, F2		Wood Products / Fasteners	Fastener withdrawal strength	ASTM D1761	Universal Test Machine - Tension	
F1, F2		Wood / Wood Products	Moisture		ASTM D2395 Section 7	Oven-Dry Moisture Content
F1, F2			Density		ASTM D2395	Volume by Measurement Volume by Water Immersion Volume by Flotation Tube Forstner Bit Increment Core Chips Full-Size Members
F1, F2			Specific Gravity		ASTM D2395	Volume by Measurement Volume by Water Immersion Volume by Flotation Tube Forstner Bit Increment Core Chips Full-Size Members
F1, F2			Plywood / Wood-Based Panel Products	Planar shear loaded by plates		ASTM D2718 Method A
F1, F2			Planar shear induced by five-point bending		ASTM D2718 Method B	Universal Test Machine - Compression
F1, F2			Center point flexure test		ASTM D3043 Method A	Universal Test Machine - Compression
F1, F2			Two-point flexure test		ASTM D3043 Method B	Universal Test Machine - Compression
F1, F2			Large panel bending stiffness and strength		ASTM D3043 Method C	QL3 Machine - Midordinate Deflection
F1, F2	Mechanical ^F Dimensional ^F	Wood / Wood Products	Flexure test for quality assurance	ASTM D3043 Method D	Universal Test Machine - Compression	
F1, F2			Moisture content	ASTM D4442	Oven-Dry Moisture Content	
F1, F2	Mechanical ^F	Plywood / Wood-Based Panel Products	Treatment	ASTM D5516 Section 6.2	Fire retardant pressure treatment (witness basis only)	
F1, F2			Post-Treatment Drying	ASTM D5516 Section 6.3	Kiln drying (witness basis only)	
F1, F2			Flexure Test	ASTM D5516 Section 6.4, 6.5 and 7	Universal Test Machine - Compression	
F1, F2			Compressive Load	ASTM E72	Compressive Load Apparatus (witness basis only)	
F1, F2			Tensile Load		Tensile Load Apparatus (witness basis only)	



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F1, F2	Mechanical ^F Dimensional ^F	Plywood / Wood-Based Panel Products / Other Panel Products	Transverse Load - Specimen Horizontal	ASTM E72	Transverse Load Apparatus - Horizontal (witness basis only)
F1, F2			Transverse Load - Specimen Vertical		Transverse Load Apparatus - Vertical (witness basis only)
F1, F2			Concentrated Load		Concentrated Load Apparatus (witness basis only)
F1, F2			Impact Load		Impact Load Apparatus (witness basis only)
F1, F2			Racking Load (dry)		Racking Load Apparatus
F1, F2			Racking Load (wet)		Wetting room Racking Load Apparatus
F1, F2		Plywood / Wood-Based Panel Products	Concentrated static load	ASTM E661	QL2 Machine
F1, F2			Concentrated impact load		QL2 Machine
F1, F2	Wood-Based Fiber and Particle Panels	Moisture content	Accelerated aging	ASTM D1037	Oven-dry moisture content
F1, F2					Cyclic aging pre-treatment by water immersion, steaming, freezing, and heating followed by post aging conditioning and mechanical testing
F1, F2		Dimensions/Size	ASTM D1037	Tape Measure Caliper Micrometer	
F1, F2		Specific Gravity	Volume by Measurement		
F1, F2		Surface Finish	Visual evaluation		
F1, F2		Static Bending	Universal Test Machine - Compression		
F1, F2		Tension parallel to surface	Universal Test Machine - Tension		
F1, F2		Tension perpendicular to surface	Universal Test Machine - Tension		
F1, F2		Compression parallel to surface	Universal Test Machine - Compression (method C only)		
F1, F2		Lateral nail resistance`	Universal Test Machine - Tension		
F1, F2		Nail withdrawal	Universal Test Machine - Tension		
F1, F2		Nail head pull through	Universal Test Machine - Tension		
F1, F2		Direct screw withdrawal	Universal Test Machine - Tension		
F1, F2		Hardness	Universal Test Machine - Compression		



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F1, F2	Mechanical ^F Dimensional ^F	Wood-Based Fiber and Particle Panels	Hardness modulus	ASTM D1037	Universal Test Machine - Compression
F1, F2			Shear in the plane of the panel		Universal Test Machine - Compression
F1, F2			Glue line shear (block type)		Universal Test Machine - Compression
F1, F2			Falling ball impact		Falling ball impact apparatus
F1, F2			Abrasion resistance by the U.S. Navy Wear Tester		N/A: Not in scope
F1, F2			Water Absorption/Thickness Swelling		Determination of water absorption/ thickness swelling using a micrometer or caliper after exposure to either: 2-plus 22-hour submersion in water Single continuous 24-hour submersion in water
F1, F2			Linear Expansion with change in moisture content		Determination of linear expansion using dial gage comparator after exposure from 50% to 90% relative humidity
F1, F2			Interlaminar shear		Universal Test Machine - Compression loaded by plates
F1, F2			Edgewise shear		Universal Test Machine - Compression loaded by rails
F1, F2			Compression-shear		Universal Test Machine - Compression loaded by axial loading
F1, F2			Thickness - hardboard		Micrometer or caliper
F1, F2			Modulus of rupture - hardboard		Universal Test Machine - Compression
F1, F2			Tension parallel to surface - hardboard		Universal Test Machine - Tension
F1, F2			Tension perpendicular to surface - hardboard		Universal Test Machine - Tension
F1, F2			Water absorption/thickness swelling		Determination of water absorption/ thickness swelling using a micrometer or caliper after a single continuous 24-hour submersion in water
F1, F2			Moisture content - hardboard		Oven-dry moisture content
F1, F2			Specific gravity - hardboard		Volume by measurement



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F1, F2	Mechanical ^F Dimensional ^F	Plywood	Panel grade/appearance	United States Department of Commerce Product Standard PS-1 (Sections 5.7, 5.8.6, 5.8.7, 5.9, 5.10, 5.11, and 6.0)	Visual evaluation
F1, F2			Panel dimensions (length, width, thickness)		Tape measure Micrometer Caliper
F1, F2	Panel squareness		Tape measure		
F1, F2	Panel straightness		Straight edge		
F1, F2	Bond performance - vacuum/pressure test		Visual evaluation of wood fiber failure after vacuum/pressure pre-treatment followed by shear testing		
F1, F2	Bond performance - boiling test		Visual evaluation of wood fiber failure after boiling pre-treatment followed by shear testing		
F1, F2	Bond performance - heat performance test		Visual evaluation of adhesive bond performance after exposure to open flame		
F1, F2	Moisture content		Oven-dry moisture content		
F1, F2	Scarf and finger joint strength		Universal test machine - Tension		
F1, F2	Scarf joint bond performance		Visual evaluation of scarf joint wood fiber failure after vacuum/pressure and boiling pre-treatments followed by shear testing		
F1, F2	Finger joint bond performance		Visual evaluation of finger joint bond performance using a wedge or chisel after vacuum/pressure and boiling pre-treatments		
F1, F2	Concentrated static load		QL2 machine		
F1, F2	Concentrated impact load		QL2 machine		
F1, F2	Uniform load		Uniform load machine		
F1, F2	Large panel bending stiffness and strength		QL3 Machine - Midordinate Deflection		
F1, F2	Planar shear strength loaded by plates		Universal test machine - Compression loaded by plates		
F1, F2	Planar shear strength loaded by five-point bending		Universal test machine - Compression loaded by 5-point bend		
F1, F2	Shear through the thickness strength	Universal test machine - Compression by two rail shear			
F1, F2	Racking load (dry)	Racking load apparatus			



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F1, F2	Mechanical ^F Dimensional ^F	Plywood / Wood-Based Panel Products	Panel grade/appearance	United States Department of Commerce Product Standard PS-2 (Sections 5.3, 5.4, 6.0, and 7.0)	Visual evaluation
F1, F2			Panel dimensions (length, width, thickness)		Tape measure Micrometer Caliper
F1, F2			Panel squareness		Tape measure
F1, F2			Panel straightness		Straight edge
F1, F2			Concentrated static load		QL2 machine
F1, F2			Concentrated impact load		QL2 machine
F1, F2			Uniform load		Uniform load machine
F1, F2			Racking load (dry)		Racking load apparatus
F1, F2			Fastener-holding resistance test - lateral load		Universal test machine - withdrawal by lateral tension load
F1, F2			Fastener-holding resistance test - Direct withdrawal load		Universal test machine - withdrawal by direct tension load
F1, F2			Large panel bending stiffness and strength		QL3 Machine - Midordinate Deflection
F1, F2			Small static bending test for OSB		Universal test machine - Compression
F1, F2			Small static bending test for composites and mat-formed panels		Universal test machine - Compression
F1, F2			Linear expansion from oven-dry to vacuum/pressure soak		Determination of linear expansion using dial gage comparator after pre-conditioning at 103 ± 2 deg C followed by vacuum/pressure treatment
F1, F2			Linear expansion from 50% relative humidity to vacuum/pressure soak		Determination of linear expansion using dial gage comparator after pre-conditioning at 103 ± 2 deg C followed by conditioning at 21 ± 6 deg C; 50 ± 5% relative humidity
F1, F2			Linear expansion and thickness swell after exposure to relative humidity		Determination of linear expansion and thickness swelling after exposure from 50% to 90% relative humidity
F1, F2			Moisture content		Oven-dry moisture content
F1, F2			Panel thickness		Micrometer



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F1, F2	Mechanical ^F Dimensional ^F	Plywood / Wood-Based Panel Products	Probe test for delamination	United States Department of Commerce Product Standard PS-2 (Sections 5.3, 5.4, 6.0, and 7.0)	Visual evaluation by probe
F1, F2			Adhesive mold test - plywood		Bond performance strength retention after exposure to mold (not applicable to panels made using phenolic resins)
F1, F2			Adhesive mold test - OSB, mat-formed panels, and composite panels		Small static bending strength retention after exposure to mold (not applicable to panels made using phenolic resins)
F1, F2			Adhesive bacteria test - plywood		Bond performance strength retention after exposure to bacteria (not applicable to panels made using phenolic resins)
F1, F2			Adhesive bacteria test - OSB, mat-formed panels, and composite panels		Small static bending strength retention after exposure to bacteria (not applicable to panels made using phenolic resins)
F1, F2			Moisture cycle test for bond performance (single cycle test)		Vacuum/pressure pre-treatment followed by oven drying (single cycle) and bond performance testing
F1, F2			Moisture cycle test for delamination and strength retention (six-cycle test)		Vacuum/pressure pre-treatment followed by oven drying (six cycle) and bond performance or strength retention testing
F1, F2			Bond performance test for plywood with knots and knotholes		QL2 machine
F1, F2			Radial probe test		Pre-treatment (either 72-hour water spray, 72-hour water soak, or vacuum/pressure treatment) followed by visual evaluation with probe
F1, F2			Deadweight bending stiffness		Static weight bending stiffness apparatus Deflection measuring device

- The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.
- Flex Code:
 F1-Introduction of the testing of a new item, material, matrix, or product for an accredited test method
 F2-Introduction of a new version of an accredited standard method (with no modifications)