



CERTIFICATE OF ACCREDITATION

This is to attest that

BENCHMARK HOLDINGS, L.L.C.

2710 WEST 5TH AVENUE
EUGENE, OREGON 97402, U.S.A.

Testing Laboratory TL-280

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 October 7, 2020



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

BENCHMARK HOLDINGS, L.L.C.

www.benchmark-intl.com

Contact Name Chris Battin

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Accredited to ISO/IEC 17025:2017

Effective Date October 7, 2020

Physical	
40 CFR Part 770	U.S. EPA Toxic Substances Control Act (TSCA) Title VI: Formaldehyde Standards for Composite Wood Products
ANSI A208.1	American national standard for particleboard
ANSI A208.2	American national standard for medium density fiberboard (MDF) for interior applications
ANSI/HPVA HP-1	Hardwood and decorative plywood and panels
ASTM A370	Standard test methods and definitions for mechanical testing of steel products
ASTM A970	Standard specification for headed steel bars for concrete reinforcement
ASTM A1034	Standard test methods for testing mechanical splices for steel reinforcing bars
ASTM D143	Standard test methods for small clear specimens of timber
ASTM D198	Standard test methods of static tests of lumber in structural sizes
ASTM D905	Standard test method for strength properties of adhesive bonds in shear by compression loading
ASTM D1005	Standard Test Method for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers
ASTM D1037	Standard test methods for evaluating properties of wood-base fiber and particle panel materials (excluding section 22; in section 12, method c only)
ASTM D1101	Standard test methods for integrity of adhesive joints in structural laminated wood products for exterior use
ASTM D1102	Standard test method for ash in wood
ASTM D1761	Standard test methods for mechanical fasteners in wood
ASTM D2395	Standard test methods for density and specific gravity (relative density) of wood and wood-based materials
ASTM D2559	Standard specification for adhesives for bonded structural wood products for use under exterior exposure conditions
ASTM D2718	Standard test methods for structural panels in planar shear (rolling shear)

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ASTM D3043	Standard test methods for structural panels in flexure
ASTM D3359	Standard test methods for measuring adhesion by tape test
ASTM D4060	Standard test method for abrasion resistance of organic coatings by the Taber abraser
ASTM D4442	Standard test methods for direct moisture content measurement of wood and wood-based materials
ASTM D4688	Standard test method for evaluating structural adhesives for finger jointing lumber
ASTM D4761	Standard test methods for mechanical properties of lumber and wood-base structural material
ASTM D5055	Standard specification for establishing and monitoring structural capacities of prefabricated wood i-joists
ASTM D5197	Standard Test Method for Determination of Formaldehyde and Other Carbonyl Compounds in Air (Active Sample Methodology)
ASTM D5516	Standard test method for evaluating the flexural properties of fire-retardant treated softwood plywood exposed to elevated temperatures
ASTM D5582	Standard test method for determining formaldehyde levels from wood products using a desiccator
ASTM D6007	Standard test method for determining formaldehyde concentrations in air from wood products using a small-scale chamber
ASTM D7147	Standard specification for testing and establishing allowable loads of joist hangers (only section 7.1)
ASTM E8	Standard test methods for tension testing of metallic materials
ASTM E10	Standard test method for Brinell hardness of metallic materials
ASTM E18	Standard test method for Rockwell hardness of metallic materials (A, B, C Scales only)
ASTM E72	Standard test methods of conducting strength tests of panels for building construction
ASTM E661	Standard test method for performance of wood and wood-based floor and roof sheathing under concentrated static and impact loads
ASTM E1333	Standard test method for determining formaldehyde concentrations in air and emission rates from wood products using a large chamber
ASTM F1575	Standard test method for determining bending yield moment of nails
BS EN 314-1	Plywood-Bonding Quality - Part 1
BS EN 314-2	Plywood-Bonding Quality - Part 2

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BS EN 322	Wood-based panels - Determination of moisture content
BS EN 323	Wood-based panels – Determination of density
BS EN 326-1	Wood-based panels - Sampling, cutting and inspection, Part 1: Sampling and cutting of test pieces and expression of results
BS EN 326-2	Wood-based panels - Sampling, cutting and inspection, Part 2: Initial type testing and factory production control
ICC-ES AC13	Joist hangers and similar devices (test methods referenced in section 3.0)
ICC-ES AC133	Mechanical splice systems for steel reinforcing bars (test methods referenced in section 4.0)
ICC-ES AC347	Headed deformed bars for use with 2012 I-codes (test methods referenced in section 4.0)
ISO 2409	Paints and Varnishes - Cross-cut test (exclusion only section 6.3)
ISO 2808	Paints and Varnishes - Determination of film thickness (only sections 5.2.4 and 5.2.4.1.2)
NALFA-LF-01	Laminate flooring (only sections 3.2, 3.7 and 3.11)
UBC Standard 23-1	Classification, definition and methods of grading for all species of lumber
UBC Standard 23-2	Construction and industrial plywood
United States Department of Commerce Product Standard PS-1	Structural plywood
United States Department of Commerce Product Standard PS-2	Performance based standard for wood-based structural use panels