



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest that

BENCHMARK HOLDINGS L.L.C.

2710 WEST 5TH AVENUE
EUGENE, OREGON 97402

Testing Laboratory TL-280

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

This certificate is valid up to January 1, 2018.



This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See www.iasonline.org for current accreditation information, or contact IAS at 562-364-8201.



C.P. Ramani
C.P. Ramani, P.E., C.B.O
President



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SCOPE OF ACCREDITATION

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| IAS Accreditation Number | TL-280 |
| Company Name | Benchmark Holdings L.L.C. |
| Address | 2710 W 5th Avenue Eugene, OR 97402 |
| Contact Name | Randy Webb, Chief Technical Officer, BMH |
| Telephone | +1 (541) 484-9212 |
| Effective Date of Scope | March 24, 2017 |
| Accreditation Standard | ISO/IEC 17025:2005 |

Physical

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| 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 |



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| 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) |
| 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 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 |



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| ASTM D6007-02 | Standard test method for determining formaldehyde concentrations in air from wood products using a small-scale chamber |
| ASTM D6007-14 | 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 |
| 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 E1333-96 (2010) | Standard test method for determining formaldehyde concentrations in air and emission rates from wood products using a large chamber |
| ASTM E1333-14 | 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 |
| FTM 1-83 | Small scale method for determining formaldehyde emissions from wood products: two hour desiccator |
| 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) |



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| ICC-ES AC347 | Headed deformed bars for use with 2012 I-codes (test methods referenced in section 4.0) |
| 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 |
| 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) |
| 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 |