



CERTIFICATE OF ACCREDITATION

This is to attest that

APA - THE ENGINEERED WOOD ASSOCIATION

7011 SOUTH 19TH STREET
TACOMA, WASHINGTON 98466, U.S.A.

Testing Laboratory TL-215

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 December 19, 2018



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

APA - THE ENGINEERED WOOD ASSOCIATION

www.apawood.org

Contact Name Borjen Yeh

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Accredited to ISO/IEC 17025:2017

Effective Date December 19, 2018

Physical	
AITC T107	Shear test
AITC T110	Cyclic delamination test
AITC T119	Full size end joint tension test
AITC T123	Sampling, testing and data analysis to determine tensile properties of lumber
AS/NZS 1080.1	Timber – methods of test – method 1: moisture content
AS/NZS 1577	Scaffold decking components
AS/NZS 2098.1	Methods of test for veneer and plywood – method 1: moisture content of veneer and plywood
AS/NZS 2098.2	Methods of test for veneer and plywood – method 2: bond quality of plywood (chisel test)
AS/NZS 2098.4	Methods of test for veneer and plywood – method 4: measurement of dimensions and shape for sheets of veneer and plywood
ASTM C271	Standard test method for density of sandwich core materials
ASTM C578	Standard specification for rigid, cellular polystyrene thermal insulation
ASTM D143	Standard test methods for small clear specimens of timber
ASTM D1037	Standard test methods for evaluating properties of wood-base fiber and particle panel materials
ASTM D1666	Standard test methods for conducting machining tests of wood and wood-base materials
ASTM D2395	Standard test methods for density and specific gravity (relative density) of wood and wood-based materials (method A)
ASTM D2555	Standard practice for establishing clear wood strength values
ASTM D2559	Standard specification for adhesives for bonded structural wood products for use under exterior exposure conditions
ASTM D4442	Standard test methods for direct moisture content measurement of wood and wood-based materials

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ASTM D4688/D4688M	Standard test method for evaluating structural adhesives for finger jointing lumber
ASTM D4933	Standard guide for moisture conditioning of wood and wood-based materials
ASTM D7247	Standard test method for evaluating the shear strength of adhesive bonds in laminated wood products at elevated temperatures
ASTM F1575	Standard test method for determining bending yield moment of nails
EN 310	Wood-based panels - determination of modulus of elasticity in bending and of bending strength
EN 314-1	Plywood – bond quality – test methods
EN 314-2	Plywood – bond quality – requirements
EN 317	Particleboards and fibreboards – determination of swelling in thickness after immersion in water
EN 319	Particleboards and fibreboards – determination of tensile strength perpendicular to the plane of the board
EN 321	Wood-based panels – determination of moisture resistance under cyclic test conditions
EN 322	Wood-based panels – determination of moisture content
EN 323	Wood-based panels – determination of density
EN 13183-1	Moisture content of a piece of sawn timber – part 1: determination by oven dry method
EN 13879	Wood-based panels - determination of properties by bending up for grabs
ISO/FDIS 12460-4	Wood-based panels -- determination of formaldehyde release -- part 4: desiccator method
Structural	
AITC T116	Modulus of elasticity for e-rated lumber by static loading
ANSI A190.1	Standard for wood products - structural glued laminated timber
ANSI/APA PRP-210	Standard for performance rated engineered wood siding
ANSI/APA PRG-320	Performance standard for cross-laminated timber
ANSI/APA PRR 410	Standard for performance rated engineered wood rim boards
APA PRP-108	Performance standards and policies for structural-use panels
APA PRR-401	Performance standard for APA EWS rim boards
AS 1649	Timber – methods of test for mechanical fasteners and connectors – basic working loads and characteristic strengths

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AS 6669	Plywood – formwork (except F4 and F5)
AS/NZS 2269.0	Plywood – structural – part 0: specifications
AS/NZS 2269.1	Plywood – structural – part 1: determination of structural properties – test methods
AS/NZS 2269.2	Plywood – structural – part 2: determination of structural properties – evaluation methods
AS/NZS 4063.1	Characterization of structural timber – part 1: test methods
AS/NZS 4063.2	Characterization of structural timber – part 2: determination of characteristic values
AS/NZS 4357.1	Structural laminated veneer lumber - method of test for measurement of dimensions and shape
AS/NZS 4357.2	Structural laminated veneer lumber (LVL) – part 2: determination of structural properties – test methods
AS/NZS 4357.3	Structural laminated veneer lumber - determination of structural properties - evaluation method
AS/NZS 4357.4	Structural laminated veneer lumber - part 4: determination of formaldehyde emissions
ASTM D198	Standard test methods of static tests of lumber in structural sizes
ASTM D1761	Standard test methods for mechanical fasteners in wood
ASTM D2718	Standard test methods for structural panels in planar shear (rolling shear)
ASTM D2719	Standard test methods for structural panels in shear through-the-thickness
ASTM D2915	Practice for sampling and data-analysis for structural wood and wood-based products
ASTM D3043	Standard test methods for structural panels in flexure
ASTM D3044	Standard test method for shear modulus of wood-based structural panels
ASTM D3500	Standard test methods for structural panels in tension
ASTM D3501	Standard test methods for wood-based structural panels in compression
ASTM D3737	Standard practice for establishing allowable properties for structural glued laminated timber (glulam)
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 D5206	Standard test method for windload resistance of rigid plastic siding

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ASTM D5456	Standard specification for evaluation of structural composite lumber products
ASTM D5764	Standard test method for evaluating dowel-bearing strength of wood and wood-based products
ASTM D6815	Standard specification for evaluation of duration of load and creep effects of wood and wood-based products
ASTM D7033	Standard practice for establishing design capacities for oriented strand board (OSB) wood-based structural-use panels
ASTM D7147	Standard specification for testing and establishing allowable loads of joist hangers
ASTM D7672	Standard specification for evaluating structural capacities of rim board products and assemblies
ASTM E72	Standard test methods of conducting strength tests of panels for building construction
ASTM E96	Standard test methods for water vapor transmission of materials
ASTM E455	Standard test method for static load testing of framed floor or roof diaphragm constructions for buildings
ASTM E564	Standard practice for static load test for shear resistance of framed walls for buildings
ASTM E661	Standard test method for performance of wood and wood-based floor and roof sheathing under concentrated static and impact loads
ASTM E2126	Standard test methods for cyclic (reversed) load test for shear resistance of vertical elements of the lateral force resisting systems for buildings
CSA O121	Douglas fir plywood (clauses C.2, 3 and 4)
CSA O151	Canadian softwood plywood (clauses C.2, C.3 and C.4)
CSA O153	Poplar plywood (B.2, B.3 and B.4)
CSA O177	Qualification code for manufacturers of structural glued-laminated timber (clauses 9.2, 9.3, 9.4, 9.5 and 9.6)
CSA O325	Construction sheathing
CSA O437.1	Standards on OSB and waferboard
DOC PS1	Structural plywood
DOC PS2	Performance standard for wood-based structural-use panels
EN 408	Timber structures – structural timber and glued laminated timber – determination of some physical and mechanical properties
EN 594	Timber structures — test methods — racking strength and stiffness of timber frame wall panels

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EN 789	Timber structures – test methods – determination of mechanical properties of wood-based panels
EN 1195	Timber structures – test methods – performance of structural floor decking
ICC ES AC04	Sandwich panels (test methods referenced in section 4.0)
ICC ES AC13	Joist hangers and similar devices (test methods referenced in section 3.0)
ICC ES AC14	Prefabricated wood I-joists (test methods referenced in section 2.0) appendix A))
ICC ES AC47	Structural wood-based products (test methods referenced in section 3.0)
ICC ES AC124	Rim board products (test methods referenced in sections 3.0 and 4.0)
ICC ES AC130	Prefabricated wood shear panels (test methods referenced in section 5.0)
ICC ES AC138	Prefabricated wall panels using wood I-studs (test methods referenced in section 3.0)
ICC ES AC182	Wood structural panels (test methods referenced in section 4.0)
ICC ES AC202	Wood-based studs (test methods referenced in section 3.0)
ICC ES AC269.1	Acceptance criteria for proprietary sheathing attached to wood light-frame wall construction used as braced wall panels under IRC
ICC ES AC269.2	Acceptance criteria for proprietary sheathing jobsite-attached to wood light-frame wall construction used as shear walls
ICC ES AC280	Fiber-reinforced-polymer glued-laminated timber using mechanics-based models (test methods referenced in section 3.0)
ICC ES AC306	Pin-connected open-web trusses with wood chords and tubular or angular steel webs (test methods referenced in section 3.0)
ICC ES AC321	Treated-engineered-wood siding (test methods referenced in section 4.0)
ICC ES AC436	Acceptance criteria for establishing seismic equivalency to code-prescribed light-frame shear walls sheathed with wood structural panels rated for shear resistance or steel sheets
ICC ES AC455	Acceptance criteria for cross-laminated panels for use as components in floor and roof decks
JAS No. 683	Standard for OSB panels (clauses 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8 and 3.9)
JAS No. 683	Standard for glued laminated timber (test methods 1-5, 7-9)
JAS No. 683	Standard for plywood (clauses 3.2, 3.4, 3.5 and 3.11)
JAS No. 683	Standard for cross-laminated timber
JAS No. 683	Standard for structural laminated veneer lumber

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APA: The Engineered Wood Association

CSA: Canadian Standards Association

FDIS: Final Draft International Standard

JAS: Japanese Agricultural Standard