

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

APA – The Engineered Wood Association 7011 South 19th Street Tacoma, Washington 98466

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: 13 June 2026 Certificate Number: AT-3949









SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

APA – The Engineered Wood Association

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TESTING

Valid to: June 13, 2026 Certificate Number: AT-3949

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|--|--|--|
| Shear test | AITC T107 | Structural Glued Laminated Timber (Glulam), Cross Laminated Timber (CLT) | Universal Test Machine, Linear Measurement Device |
| Cyclic delamination test | AITC T110 | Glulam, End Joint | Pressure Vessel, Drying oven |
| Full size end joint tension test | AITC T119 | End Joint | Tension Tester, Linear Measurement Device |
| Sampling, testing and data analysis to determine tensile properties of lumber | AITC T123 | Lumber | Tension Tester, Linear Measurement Device |
| Timber – methods of test – method 1: moisture content | AS/NZS 1080.1 | Laminated Veneer Lumber | Linear Measurement Device, Balance, Drying Oven |
| Scaffold decking components | AS/NZS 1577 | Laminated Veneer Lumber | Analytical |
| Methods of test for veneer and plywood – method 1: moisture content of veneer and plywood | AS/NZS 2098.1 | Laminated Veneer Lumber | Linear Measurement Device, Balance, Drying Oven |
| Methods of test for veneer and plywood – method 2: bond quality of plywood (chisel test) | AS/NZS 2098.2 | Laminated Veneer Lumber | Chisel, Soak tank, Boil Tank, Drying Oven |
| Methods of test for veneer and plywood – method 4: measurement of dimensions and shape for sheets of veneer and plywood | AS/NZS 2098.4 | Laminated Veneer Lumber | Linear Measurement Device |





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| Standard test method for density of sandwich core materials | ASTM C271 | Rigid Foam | Linear Measurement Device, Balance |
| Standard specification for rigid, cellular polystyrene thermal insulation | ASTM C578 | Rigid Foam | Analytical |
| Standard test methods for small clear specimens of timber | ASTM D143 | Lumber, SCL, Glulam, CLT | Universal Test Machine, Deflectometer, Linear Measurement Device, Conditioning Chamber, Balance, Drying Oven |
| Standard test methods for evaluating properties of wood-base fiber and particle panel materials | ASTM D1037 | A A | Pressure vessel, Drying Oven, Universal Test Machine, Internal Bond Blocks, Tension Tester, Sample Cups, Conditioning Chamber, Soak Tank, Linear Measurement Device, Balance |
| Standard test methods for conducting machining tests of wood and wood-base materials | ASTM D1666 | Overlaid Wood Structural Panels | Analytical |
| Standard test methods for density and specific gravity (relative density) of wood and wood-based materials (method A) | ASTM D2395 | Wood Structural Panels, Glulam, CLT, Structural Composite Lumber (SCL), Lumber | Linear Measurement Device, Balance, Drying Oven, Moisture Meter |
| Standard practice for establishing clear wood strength values | ASTM D2555 | Glulam, CLT, SCL, Lumber | Universal Test Machine, Deflectometer, Linear Measurement Device, Conditioning Chamber, Balance, Drying Oven |
| Standard specification for adhesives for bonded structural wood products for use under exterior exposure conditions | ASTM D2559 | Glulam, CLT, SCL, I-joist | Universal Test Machine, Balance, Linear Measurement Device, Pressure Vessel, Drying Oven |
| Standard test methods for direct moisture content measurement of wood and wood-based materials | ASTM D4442 | Wood Structural Panels, SCL, Glulam, Lumber, and CLT | Balance, Drying Oven |





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| Standard test method for evaluating structural adhesives for finger jointing lumber | ASTM D4688/D4688M | Glulam, I-joist Flange | Tension Tester, Pressure vessel, Drying Oven, Universal Test Machine, Linear Measurement Device, Wood Failure Reading Lamp |
| Standard guide for moisture conditioning of wood and wood-based materials | ASTM D4933 | Wood Structural Panels, CLT, Glulam, SCL | Conditioning Chamber |
| Standard test method for evaluating the shear strength of adhesive bonds in laminated wood products at elevated temperatures | ASTM D7247 | SCL, Glulam, CLT | Universal Test Machine, High Temperature Oven, Linear Measurement Device, Thermometer, Thermocouple |
| Standard test method for determining bending yield moment of nails | ASTM F1575 | Nails | Universal Test Machine, Deflectometer, Linear Measurement Device |
| Wood-based panels - determination of modulus of elasticity in bending and of bending strength | EN 310 | Wood Structural Panels | Conditioning Chamber, Universal Test Machine, Deflectometer, Linear Measurement Device |
| Plywood – bond quality – test methods | EN 314-1 | Plywood | Boil Tank, Soak Tank, Drying Oven, Linear Measurement Device, Universal Test Machine |
| Plywood – bond quality – requirements | EN 314-2 | Plywood | Analytical |
| Particleboards and fiberboards – determination of swelling in thickness after immersion in water | EN 317 | OSB | Conditioning Chamber, Linear Measurement Device, Soak Tank |
| Particleboards and fiberboards – determination of tensile strength perpendicular to the plane of the board | EN 319 | OSB | Conditioning Chamber, Linear Measurement Device, Universal Test Machine, Internal Bond Blocks, Heating Plate |
| Wood-based panels – determination of moisture resistance under cyclic test conditions | EN 321 | Wood Structural Panels | Soak Tank, Conditioning Chamber, Drying Oven |
| Wood-based panels – determination of moisture content | EN 322 | Wood Structural Panels | Balance, Drying Oven, Desiccator |

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| Wood-based panels – determination of density | EN 323 | Wood Structural Panels | Linear Measurement Device, Balance |
| Moisture content of a piece of sawn timber – part 1: determination by oven dry method | EN 13183-1 | SCL, CLT, Glulam | Balance, Drying Oven |
| Wood-based panels - determination of edgewise bending properties | EN 13879 | Wood Structural Panels | Conditioning Chamber, Universal Test Machine, Deflectometer, Linear Measurement Device |
| Wood-based panels determination of formaldehyde release part 4: desiccator method | ISO/FDIS 12460-4 | Wood Structural Panels | Desiccator, Spectrophotometer, Glassware, Electronic Pipette, Timer, Refrigerator |
| Modulus of elasticity for e- rated lumber by static loading | AITC T116 | Lumber | Load cell, Deflectometer, Linear Measurement Device |
| Product standard for structural glued laminated timber | ANSI A190.1 | Glulam | Universal Test Machine, Pressure Vessel, Pressure and Vacuum Gauge Drying oven, Load cell, Deflectometer, Tension tester, Linear Measurement Device |
| Standard for performance rated engineered wood siding | ANSI/APA PRP-210 | Engineered wood siding | Post Flexure Machine, Universal Test Machine, Shear Wall Tester, DEMCO Test Machine, Pressure Vessel, Pressure and Vacuum Gauge, Drying Oven, Deflectometer, Linear Measurement Device |
| Standard for performance- rated cross-laminated timber | ANSI/APA PRG-320 | CLT | Universal Test Machine, Load cell, Deflectometer, Pressure Vessel, Pressure and Vacuum Gauge, Drying oven, Linear Measurement Device |
| Standard for performance rated engineered wood rim boards | ANSI/APA PRR 410 | Engineered Wood Rim Boards (Wood Structural Panels, SCL, and Glulam) | Universal Test Machine, Load cell, Deflectometer, Linear Measurement Device |





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| Performance standards and policies for structural-use panels | APA PRP-108 | Wood Structural Panels | Pressure vessel, Vacuum Pressure Gauge, Universal Test Machine, Soak Tank, Linear Measurement Device, DEMCO Test Machine, Weighted Bags, Deflectometer, Linear Expansion Gauge, Post Flexure Machine, Shear Wall Setup, Conditioning Chamber, Drying Oven, Balance |
| Performance standards and qualification policy for APA EWS Rim Boards | APA PRR-401 | SCL, Wood Structural Panels, Glulam | Universal Test Machine, Soak Tank, Linear Measurement Device, Horizontal Rim Board Tester, Deflectometer, Drying Oven, Balance, Pressure vessel, |
| Timber – methods of test for mechanical fasteners and connectors – basic working loads and characteristic strengths | AS 1649 | Laminated Veneer Lumber | Universal Test Machine, Deflectometer |
| Plywood – formwork (except F4 and F5) | AS 6669 | Plywood, Laminated Veneer Lumber | Analytical |
| Plywood – structural – part 0: specifications | AS/NZS 2269.0 | Plywood, Laminated Veneer Lumber | Analytical |
| Plywood – structural – part 1: determination of structural properties – test methods | AS/NZS 2269.1 | Plywood, Laminated Veneer Lumber | Tension tester, Universal Test Machine, Deflectometer, Panel Shear Knurled Grips |
| Plywood – structural – part 2: determination of structural properties – evaluation methods | AS/NZS 2269.2 | Plywood, Laminated Veneer Lumber | Analytical |
| Characterization of structural timber – part 1: test methods | AS/NZS 4063.1 | Laminated Veneer Lumber | Tension Tester, Universal Test Machine, Deflectometer |
| Characterization of structural timber – part 2: determination of characteristic values | AS/NZS 4063.2 | Laminated Veneer Lumber | Analytical |





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| Structural laminated veneer lumber - method of test for measurement of dimensions and shape | AS/NZS 4357.1 | Laminated Veneer Lumber | Linear Measurement Device, Linear Measurement Device, Square |
| Structural laminated veneer lumber (LVL) – part 2: determination of structural properties – test methods | AS/NZS 4357.2 | Laminated Veneer Lumber | Tension Tester, Universal Test Machine, Deflectometer, Metal Plates for Glued-up Shear Tests |
| Structural laminated veneer lumber - determination of structural properties - evaluation method | AS/NZS 4357.3 | Laminated Veneer Lumber | Analytical |
| Structural laminated veneer lumber - part 4: determination of formaldehyde emissions | AS/NZS 4357.4 | Laminated Veneer Lumber | Desiccator, Collection Disk, Spectrophotometer, Scale, Flask, Electronic Pipette |
| Standard test methods of static tests of lumber in structural sizes | ASTM D198 | Lumber, wood-based products | Universal Test Machine, Deflectometer, Linear Measurement Device |
| Standard test methods for mechanical fasteners in wood and wood-based materials | ASTM D1761 | Wood, wood-base material | Universal Test Machine, Deflectometers, Linear Measurement Device |
| Standard test methods for structural panels in planar shear (rolling shear) | ASTM D2718 | Wood Structural panels | Universal Test Machine, Deflectometers, Linear Measurement Device |
| Standard test methods for structural panels in shear through-the-thickness | ASTM D2719 | Wood Structural panels | Universal Test Machine, Deflectometers, Linear Measurement Device, Shear Through Thickness Apparatus |
| Standard practice for sampling and data-analysis for structural wood and woodbased products | ASTM D2915 | Wood, wood-based structural products | Analytical |
| Standard test methods for structural panels in flexure | ASTM D3043 | Wood Structural panels | Load cells, Deflectometers, Linear Measurement Device |
| Standard test method for shear modulus of wood-based structural panels | ASTM D3044 | Wood Structural panels | Load cells, Deflectometers, Linear Measurement Device |
| Standard test method for hygroscopic properties of fire-retardant wood-based products | ASTM D3201 | Wood Structural Panels, Glulam, CLT, SCL, I-joists | Drying Oven, Balance, Conditioning Chamber |





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| Standard test methods for structural panels in tension | ASTM D3500 | Wood Structural panels | Load cell, Tension Tester, Linear Measurement Device |
| Standard test methods for wood-based structural panels in compression | ASTM D3501 | Wood Structural panels | Universal Test Machine, Deflectometers, Linear Measurement Device |
| Standard practice for establishing allowable properties for structural glued laminated timber (glulam) | ASTM D3737 | Glulam | Analytical |
| Standard test methods for mechanical properties of lumber and wood-base structural material | ASTM D4761 | Stress-graded lumber, other wood-base structural material | Universal Test Machine and tension tester, Deflectometers, Linear Measurement Device |
| Standard specification for establishing and monitoring structural capacities of prefabricated wood I-joists | ASTM D5055 | Prefabricated wood I-joists | Load cells, Deflectometer, Linear Measurement Device, I-joist Tester |
| Standard specification for evaluation of structural composite lumber products | ASTM D5456 | SCL | Universal Test Machine, Load cells, Deflectometer, Linear Measurement Device |
| Standard test method for evaluating dowel-bearing strength of wood and wood- based products | ASTM D5764 | Wood, wood-base products | Universal Test Machine, Deflectometer, Linear Measurement Device |
| Standard specification for evaluation of duration of load and creep effects of wood and wood-based products | ASTM D6815 | Wood, wood-base products | Load cells, Deflectometer, Linear Measurement Device |
| Standard practice for establishing design capacities for oriented strand board (OSB) wood-based structural-use panels | ASTM D7033 | OSB | Universal Test Machine, Deflectometer, Linear Measurement Device, Shear Through Thickness Apparatus |
| Standard specification for testing and establishing allowable loads of joist hangers | ASTM D7147 | Metal connections | Load cells, Deflectometer, Linear Measurement Device |
| Standard specification for evaluating structural capacities of rim board products and assemblies | ASTM D7672 | Proprietary Rim Board products and assemblies | Load cells, Deflectometer, Linear Measurement Device |





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| Standard Practice for Evaluation of Fire-Retardant Treated Laminated Veneer Lumber | ASTM D8223 | LVL | Universal Test Machine, Load cells, Deflectometer, Linear Measurement Device |
| Standard test methods of conducting strength tests of panels for building construction | ASTM E72 | Wood Structural Panels, structural composite lumber, structural insulated panels | Shear wall setup, Universal Test Machine, Large Bending Tester, Deflectometer, Uniform Load Tester |
| Standard test methods for water vapor transmission of materials | ASTM E96 | Wood structural panels, structural composite lumber | Test Cups, Conditioning Chamber, Balance |
| Standard test method for static load testing of framed floor or roof diaphragm constructions for buildings | ASTM E455 | Wood structural panels, Wood I-joist, Structural Insulated Panels, structural composite lumber, Rim Board | Diaphragm Test Setup |
| Standard practice for static load test for shear resistance of framed walls for buildings | ASTM E564 | Wood structural panels, structural composite lumber | Shear Wall Setup |
| Standard test method for performance of wood and wood-based floor and roof sheathing under concentrated static and impact loads | ASTM E661 | Wood structural panels | DEMCO Test Machine, Weighted Bags, Deflectometer |
| Standard test methods for cyclic (reversed) load test for shear resistance of vertical elements of the lateral force resisting systems for buildings | ASTM E2126 | Wood structural panels, structural composite lumber | Shear Wall Setup |
| Douglas fir plywood (clauses C.2, 3 and 4) | CSA O121 | Plywood | Pressure Vessel, Pressure and Vacuum Gauge, Boil Tank, Soak Tank, Universal Test Machine, Linear Measurement Device, Wood Failure Reading Lamp |
| Canadian softwood plywood (clauses C.2, C.3 and C.4) | CSA O151 | Plywood | Pressure Vessel, Pressure and Vacuum Gauge, Boil Tank, Soak Tank, Universal Test Machine, Linear Measurement Device, Wood Failure Reading Lamp |





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| Poplar plywood (B.2, B.3 and B.4) | CSA O153 | Plywood | Pressure Vessel, Pressure and Vacuum Gauge, Boil Tank, Soak Tank, Universal Test Machine, Linear Measurement Device, Wood Failure Reading Lamp |
| Qualification code for manufacturers of structural glued-laminated timber (clauses 9.2, 9.3, 9.4, 9.5 and 9.6) | CSA 0177 | Glulam | Universal Test Machine, Pressure Vessel, Pressure and Vacuum Gauge, Drying Oven, Load cell, Deflectometer, Tension tester, Linear Measurement Device |
| Construction sheathing | CSA O325 | Wood Structural Panels | Pressure vessel, Vacuum Pressure Gauge, Universal Test Machine, Soak Tank, Linear Measurement Device, DEMCO Test Machine, Deflectometer, Linear Expansion Gauge, Uniform Load Tester, Vacuum Transducer, Monometer, Shear Through Thickness Apparatus, Post Flexure Machine, Shear Wall Setup, Conditioning Chamber, Drying Oven, Balance, Radial Probe, Dead Weights |
| Standards on OSB and waferboard | CSA 0437.1 | Wood Structural Panels | Pressure vessel, Boil Tank, Soak Tank, Linear Measurement Device, Universal Test Machine, Internal Bond Blocks, Linear Expansion Gauge, Conditioning Chamber, Balance |
| Timber structures – structural timber and glued laminated timber – determination of some physical and mechanical properties | EN 408 | Glulam | Universal Test Machine, Load Cell, Deflectometer, Tension tester, Linear Measurement Device |





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| Timber structures — test methods — racking strength and stiffness of timber frame wall panels | EN 594 | Wood Structural Panels | Shear Wall Setup |
| Timber structures – test methods – determination of mechanical properties of wood-based panels | EN 789 | Wood Structural Panels | Universal Test Machine, Linear Measurement Device, Deflectometer, Tension Tester, Shear Through Thickness Apparatus, Conditioning Chamber, Balance, Drying Oven |
| Timber structures – test methods – performance of structural floor decking | EN 1195 | Wood Structural Panels | DEMCO Test Machine, Weighted Bags, Deflectometer, Measuring Device |
| Sandwich panels (test methods referenced in section 4.0) | ICC ES AC04 | Structural Insulated Panels | Shear Wall Setup, Universal Test Machine, Large Bending Tester, Deflectometer, Uniform Load Tester, Vacuum Transducer, Monometer, DEMCO Test Machine |
| Joist hangers and similar devices (test methods referenced in section 3.0) | ICC ES AC13 | Joist hangers | Universal Test Machine, deflectometer |
| Prefabricated wood I-joists (test methods referenced in section 2.0) | ICC ES AC14 | I-joist | Diaphragm Test Setup, Load Cell, Universal Test Machine, Large Bending Tester, Deflectometer |
| Structural wood-based products (test methods referenced in section 3.0) | ICC ES AC47 | SCL | Load Cell, Universal test Machine, Large Bending Tester, Deflectometer |
| Rim board products (test methods referenced in sections 3.0 and 4.0) | ICC ES AC124 | Engineered wood rim boards | Universal Test Machine, Load cell, Deflectometer |
| Prefabricated wood shear panels (test methods referenced in section 5.0) | ICC ES AC130 | Wood shear wall panels | Shear Wall Setup, Deflectometer |





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| Prefabricated wall panels using wood I-studs (test methods referenced in section 3.0) | ICC ES AC138 | I-joist | Shear Wall Setup, Load Cell, Universal Test Machine, Large Bending Tester, Deflectometer |
| Wood structural panels (test methods referenced in section 4.0) | ICC ES AC182 | Wood Structural Panels | Universal test machine, Post Flexure Machine, Shear- Through Thickness Apparatus, Load cell, Deflectometer |
| Wood-based studs (test methods referenced in section 3.0) | ICC ES AC202 | SCL | Shear Wall Setup, Universal Test Machine, Load cell, Deflectometer |
| Acceptance criteria for proprietary sheathing attached to wood light-frame wall construction used as braced wall panels under IRC | ICC ES AC269.1 | Engineered wood rim boards | Universal Test Machine, Load Cell, Deflectometer |
| Acceptance criteria for proprietary sheathing jobsite-attached to wood light- frame wall construction used as shear walls | ICC ES AC269.2 | Wood shear wall panels | Shear Wall Setup, Deflectometer |
| Fiber-reinforced-polymer glued-laminated timber using mechanics-based models (test methods referenced in section 3.0) | | Fiber-reinforced-polymer glulam | Shear Wall Setup, Deflectometer |
| Pin-connected open-web trusses with wood chords and tubular or angular steel webs (test methods referenced in section 3.0) | ICC ES AC306 | Pin-Connected Open-Web Trusses | Universal Test Machine, Load Cell, Deflectometer |
| Treated-engineered-wood siding (test methods referenced in section 4.0) | ICC ES AC321 | Treated engineered wood siding | Post Flexure Machine, Universal Test Machine, Shear Wall Tester, DEMCO Test Machine, Pressure Vessel, Pressure and Vacuum Gauge, Drying Oven, Deflectometer, Linear Measurement Device |





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| 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 AC436 | Lateral force-resisting vertical assemblies | Shear Wall Setup, Deflectometer |
| Acceptance criteria for cross- laminated panels for use as components in floor and roof decks | ICC ES AC455 | CLT | Universal Test Machine, Load Cell, Deflectometer, Pressure Vessel, Drying oven, Linear Measurement Device |
| Standard for OSB panels (clauses 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8 and 5.9) | JAS No. 0360 | OSB | Desiccator, Spectrophotometer, Glassware, Electronic Pipette, Timer, Refrigerator, Boil Tank, JAS Rainmaker, Drying Oven, Universal Test Machine, Linear Measurement Device, Internal Bond Blocks, Deflectometer |
| Standard for structural laminated veneer lumber | JAS No. 0701 | LVL | Desiccator, Spectrophotometer, Glassware, Electronic Pipette, Timer, Refrigerator, Vacuum Pressure Vessel, Vacuum Pressure Gauge, Drying Oven, Linear Measurement Device, Universal Test Machine |
| Standard for glued laminated timber (test methods 1-5, 7-9) | JAS No. 1152 | Glulam | Desiccator, Spectrophotometer, Glassware, Electronic Pipette, Timer, Refrigerator, Pressure vessel, Drying Oven, Universal Test Machine, Load Cell, Deflectometer, Linear Measurement Device |





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| Standard for plywood (clauses 3.2, 3.4, 3.5 and 3.13) | JAS No. 0233 | Plywood | Desiccator, Spectrophotometer, Glassware, Electronic Pipette, Timer, Refrigerator, Pressure vessel, Vacuum Pressure Gauge, Drying Oven, Universal Test Machine, Linear Measurement Device |
| Standard for cross-laminated timber | JAS No. 3079 | CLT | Desiccator, Spectrophotometer, Glassware, Electronic Pipette, Timer, Refrigerator, Vacuum Pressure Vessel, Drying Oven, Boil Tank, Universal Test Machine, Load Cell, Balance, Deflectometer |
| Structural plywood (Sections 5.7, 5.8.6, 5.8.7, 5.9, 5.10, 5.11, and 6.0) | United States Department of Commerce Product Standard PS-1 | Plywood | Pressure Vessel, Boil Tank, Soak Tank, Universal Test Machine, Linear Measurement Device, Wood Failure Reading Lamp, Bunson Burner, Uniform Load Tester, Vacuum Transducer, Monometer, Post Flexure Machine, Deflectometer, Shear Through Thickness Apparatus, Drying Oven, Balance |





| Specific Tests and/or | Specification, Standard, Method, or Test Technique | Items, Materials or | Key Equipment or |
|---|--|------------------------|---|
| Properties Measured | | Product Tested | Technology |
| Performance standard for wood structural panels (Sections 5.3, 5.4, 6.0, and 7.0) | United States Department of Commerce Product Standard PS-2 | Wood Structural Panels | Pressure Vessel, Universal Test Machine, Soak Tank, Linear Measurement Device, DEMCO Test Machine, Weighted Bags, Deflectometer, Linear Expansion Gauge, Uniform Load Tester, Vacuum Transducer, Monometer, Shear Through Thickness Apparatus, Post Flexure Machine, Shear Wall Setup, Conditioning Chamber, Drying Oven, Balance, Radial Probe, Dead Weights |

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-3949.

Jason Stine, Vice President



