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## WOOD-BASED PRODUCTS TEST METHOD SELECTION LIST

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**Instructions:** Check those test methods for which you are requesting accreditation.

An asterisk (\*) or a double asterisk (\*\*) beside the NVLAP Test Method Code indicates that proficiency testing is required. The double asterisk indicates test methods that require visual estimates of percent wood failure. The double-asterisk test methods will be conducted similar to the other proficiency testing; however, since quantified measurements are unavailable, only relative comparisons can be made.

Notification will be given for the required proficiency testing by NVLAP and/or a NVLAP contractor, and the results of both types of proficiency testing will be reported in a single Tech Brief or in separate Tech Briefs.

Test Method Designations in parentheses indicate Canadian test methods. These test methods were found comparable for purposes of accreditation only (see NIST Handbook 150, 5.4.2).

<b><i>NVLAP Test Method Code</i></b>	<b><i>Test Method Designation</i></b>	<b><i>Short Title</i></b>
<b>FIRE TESTS</b>		
_____ 23/F01*	ASTM E84	Surface Burning Characteristics of Building Materials
_____ 23/F02	ASTM E906	Heat and Visible Smoke Release Rates for Materials and Products
_____ 23/F03	ASTM E1354	Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

### **GENERAL WOOD PRODUCTS**

To avoid duplication in the list of test methods within each category, the General Wood Products listing represents those methods that would appear under more than one category. Several test methods that did not fit specifically into any of the other categories are also listed here.

_____ 23/G01	ASTM D906 (CSA 0112.0-M Series 1977)	Strength Properties of Adhesives in Plywood Type Construction in Shear by Tension Loading (CSA Standards for Wood Adhesives, Sec. 0112.0-M: Clause 3.2: Plywood Shear Test)
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NVLAP LAB CODE: \_\_\_\_\_

_____ 23/G02*	ASTM D1037 (Part A, Sec. 11-20)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials-Part A, Sec. 11-20: Static Bending
_____ 23/G02a*	ANSI A208.1-1999 (Sec. 3.3.7)	Particleboard, Sec. 3.3.7: Modulus of Rupture and Modulus of Elasticity
_____ 23/G02b*	ANSI A208.2-2002 (Sec. 3.3.6)	Medium Density Fiberboard, Sec. 3.3.6: Modulus of Rupture and Modulus of Elasticity
_____ 23/G03	ASTM D1037 (Part A, Sec. 28-33)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 28-33: Tensile Strength Perpendicular to Surface
_____ 23/G03a	ANSI A208.1-1999 (Sec. 3.3.6)	Particleboard, Sec. 3.3.6: Internal Bond
_____ 23/G03b	ANSI 208.2-2002 (Sec. 3.3.7)	Medium Density Fiberboard, Sec. 3.3.7: Internal Bond
_____ 23/G04	ASTM D2395 (Method A)	Specific Gravity of Wood and Wood-Base Materials, Method A: Volume by Measurement
_____ 23/G05	ASTM D2718	Structural Panels in Planar Shear (Rolling Shear)
_____ 23/G06	ASTM D2719 (Method C)	Structural Panels in Shear Through-the-Thickness, Method C: Two-Rail Shear
_____ 23/G07	ASTM D3043 (Method C)	Structural Panels in Flexure, Method C: Pure Moment Test
_____ 23/G08	ASTM D4442 (Method A)	Direct Moisture Content Measurement of Wood and Wood-Base Materials, Method A: Primary Oven-Drying
_____ 23/G09	ASTM D4442 (Method B)	Direct Moisture Content Measurement of Wood and Wood-Base Materials, Method B: Secondary Oven-Drying
_____ 23/G10	ASTM E72 (Sec. 14)	Conducting Strength Tests of Panels for Building Construction, Sec. 14: Racking Load
_____ 23/G11	ASTM E72 (Sec. 15)	Conducting Strength Tests of Panels for Building Construction, Sec. 15: Racking Load (Wet)
_____ 23/G12	ASTM E564	Static Load Test for Shear Resistance of Framed Walls for Buildings
_____ 23/G13	ASTM E695	Measuring Relative Resistance of Wall, Floor, and Roof Construction to Impact Loading
_____ 23/G14	AFG-01-84 (Sec. 3.1)	Adhesives for Field-Gluing Plywood to Wood Framing, Sec. 3.1: Shear Strength (APA)
_____ 23/G15	AFG-01-84 (Sec. 3.2)	Adhesives for Field-Gluing Plywood to Wood Framing, Sec. 3.2: Durability (APA)

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_____ 23/G16	ASTM E489	Tensile Strength Properties of Metal Connector Plates
_____ 23/G17	ASTM E767	Shear Strength Properties of Metal Connector Plates
_____ 23/G18	ASTM D1761 (Sec. 41-52)	Mechanical Fasteners in Wood, Sec. 41-52: Joist Hanger Tests
_____ 23/G19	ASTM E72 (Sec. 9)	Conducting Strength Tests of Panels for Building Construction, Sec. 9: Compressive Load
_____ 23/G20	ASTM E72 (Sec. 11, 17, 20)	Conducting Strength Tests of Panels for Building Construction, Sec. 11, 17, 20: Transverse Load
_____ 23/G21	ASTM E72 (Sec. 13, 18, 21)	Conducting Strength Tests of Panels for Building Construction, Sec. 13, 18, 21: Concentrated Load
_____ 23/G22	ASTM D5764	Evaluating Dowel-Bearing Strength of Wood and Wood-Base Products
_____ 23/G23	ASTM E1803	Determining Structural Capacities of Insulated Panels
_____ 23/G24	ASTM D2394 (Sec. 33-37)	Simulated Service Testing of Wood and Wood-Base Finish Flooring, Sec. 33-37: Coefficient of Friction
_____ 23/G25	CSA 0112.9-04 (except Sec. 5.1 & 5.2)	Evaluation of Adhesives for Structural Wood Products (Exterior Exposure) (except Sections 5.1 and 5.2)
_____ 23/G26	ASTM E455	Static Load Testing of Framed Floor or Roof Diaphragm Constructions for Buildings
_____ 23/G27	ASTM D5266	Practice for Estimating the Percentage of Wood Failure in Adhesive Bonded Joints

### **HARDWOOD PLYWOOD**

_____ 23/H01	ANSI/HPVA HP-1-2004 (Sec. 4.3)	American National Standard for Hardwood and Decorative Plywood, Sec. 4.3: Dry Shear Test
_____ 23/H02	ANSI/HPVA HP-1-2004 (Sec. 4.4)	American National Standard for Hardwood and Decorative Plywood, Sec. 4.4: Cyclic-Boil Shear Test
_____ 23/H03	ANSI/HPVA HP-1-2004 (Sec. 4.6)	American National Standard for Hardwood and Decorative Plywood, Sec. 4.6: Three-Cycle Soak Test
_____ 23/H04	ASTM E96	Water Vapor Transmission of Materials

### **PARTICLEBOARD AND MEDIUM-DENSITY FIBERBOARD**

#### ***Formaldehyde***

_____ 23/T01*	ASTM E1333	Determining Formaldehyde Concentrations in Air and Emission Rates from Wood Products Using a Large Chamber
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_____ 23/T02*	FTM 1-83	Small Scale Method for Determining Formaldehyde Emissions from Wood Products: Two Hour Desiccator
_____ 23/T03	BS EN 120:92	Wood Based Panels-Determination of Formaldehyde Content - Extraction Method Called the Perforator Method (Incorporating Amendment No. 1) (English)
_____ 23/T04	ASTM D5582	Determining Formaldehyde Levels from Wood Products Using a Desiccator
_____ 23/T05	ASTM D6007	Determining Formaldehyde Concentration in Air from Wood Products Using a Small Scale Chamber
_____ 23/T06	JIS A 1460:2001(E)	Building Boards Determination of Formaldehyde Emission - Desiccator Method (English)

### ***Physical/Mechanical Properties***

_____ 23/P01	ASTM D1037 (Part A, Sec. 21-27)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 21-27: Tensile Strength Parallel to Surface
_____ 23/P02	ASTM D1037 (Part A, Sec. 61-67)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 61-67: Direct Screw Withdrawal Test
_____ 23/P02a	ANSI A208.1-1999 (Sec. 3.3.9 and 3.3.10)	Particleboard, Sec. 3.3.9: Face Screw-Holding Capacity; Sec. 3.3.10: Edge Screw-Holding Capacity
_____ 23/P02b	ANSI A208.2-2002 (Sec. 3.3.8 and 3.3.9)	Medium Density Fiberboard, Sec. 3.3.8: Face Screw-Holding; Sec. 3.3.9: Edge Screw-Holding
_____ 23/P03	ASTM D1037 (Part A, Sec. 68-73)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 68-73: Hardness Test
_____ 23/P04	ASTM D1037 (Part A, Sec. 81-86)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 81-86: Shear Strength in the Plane of the Board
_____ 23/P05	ASTM D1037 (Part A, Sec. 100-107)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 100-107: Water Absorption and Thickness Swelling
_____ 23/P05a	ANSI A208.1-1999 (Sec. 3.3.4)	Particleboard, Sec. 3.3.4: Thickness Swell
_____ 23/P06	ASTM D1037 (Part A, Sec. 108-111)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 108-111: Linear Variation with Change in Moisture Content
_____ 23/P06a	ANSI A208.1-1999 (Sec. 3.3.3)	Particleboard, Sec. 3.3.3: Linear Expansion
_____ 23/P07	ASTM D1037 (Part A, Sec. 112-118)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 112-118: Accelerated Aging

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_____ 23/P08	ASTM D1037 (Part A, Sec. 120-121)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 120-121: Moisture Content and Specific Gravity
_____ 23/P08a	ANSI A208.1-1999 (Sec. 3.3.1)	Particleboard, Sec. 3.3.1: Moisture Content
_____ 23/P08b	ANSI A208.2-2002 (Sec. 3.3.1)	Medium Density Fiberboard, Sec. 3.3.1: Moisture Content
_____ 23/P09	ANSI A208.1 (Sec. 3.3.11)	Particleboard, Sec. 3.3.11: Concentrated Loading

### **SANDWICH CONSTRUCTIONS**

_____ 23/X01	ASTM C273	Shear Properties in Flatwise Plane of Flat Sandwich Constructions or Sandwich Cores
_____ 23/X02	ATSM C297	Tensile Strength of Flat Sandwich Constructions in Flatwise Plane
_____ 23/X03	ASTM C365/C365M	Flatwise Compressive Properties of Sandwich Cores
_____ 23/X04	ASTM C393	Flexural Properties of Flat Sandwich Constructions
_____ 23/X05	ASTM C480	Flexure-Creep of Sandwich Constructions
_____ 23/X06	ASTM C481	Laboratory Aging of Sandwich Constructions
_____ 23/X07	ASTM D1183	Resistance of Adhesive to Cyclic Laboratory Aging Conditions

### **STRUCTURAL, COMPOSITE LUMBER, GLULAM, I-JOISTS, LAMINATED VENEER LUMBER**

_____ 23/J01	ASTM D143 (Sec. 8)	Small Clear Specimens of Timber, Sec. 8: Static Bending
_____ 23/J02	ASTM D143 (Sec. 14)	Small Clear Specimens of Timber, Sec. 14: Shear Parallel to Grain
_____ 23/J03	ASTM D143 (Sec. 16)	Small Clear Specimens of Timber, Sec. 16: Tension Parallel to Grain
_____ 23/J04	ASTM D198 (Sec. 4-11)	Static Tests of Timbers in Structural Sizes, Sec. 4-11: Flexure
_____ 23/J05	ASTM D198 (Sec. 28-35)	Static Tests of Timbers in Structural Sizes, Sec. 28-35: Tension Parallel to Grain

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_____ 23/J06	ASTM D905 (CSA 0112.0-M Series 1977)	Strength Properties of Adhesive Bonds in Shear by Compression Loading (CSA Standards for Wood Adhesives, Sec. 0112.0-M: Clause 3.1: Shear Strength by Compression Loading)
_____ 23/J07	ASTM D1037 (Part A, Sec. 87-90)	Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials, Part A, Sec. 87-90: Glue-Line Shear (Block Type)
_____ 23/J08	ASTM D1101	Integrity of Glue Joints in Structural Laminated Wood Products for Exterior Use
_____ 23/J09	ASTM D1761 (Sec. 1-11)	Mechanical Fasteners in Wood, Sec. 1-11: Nail, Staple, or Screw Withdrawal
_____ 23/J10	ASTM D2559 (Resistance to Shear)	Adhesives for Structural Laminated Wood Products for Use Under Exterior (Wet Use) Exposure Conditions: Resistance to Shear by Compression Loading
_____ 23/J11a	ASTM D2559 (Resistance to Delamination)	Adhesives for Structural Laminated Wood Products for Use Under Exterior (Wet Use) Exposure Conditions: Resistance to Delamination During Accelerated Exposure
_____ 23/J11b	CSA 0112.0 - M Series 1977:Clause 3.3	CSA Standards for Wood Adhesives, Sec. 0112.0-M: Clause 3.3, Delamination Test
_____ 23/J12	ASTM D4688	Evaluating Structural Adhesives for Fingerjointing Lumbers
_____ 23/J13	AITC 200 (T106)	Inspection Manual for Structural Glued Laminated Timber, T106: Strip Tension Test for End Joints (Used in Lamination Repair) (except for "or at a load rate that is approved by the AITC Inspection Bureau," Sec. 7.5.8.1)
_____ 23/J14**	AITC 200 (T107)	Inspection Manual for Structural Glued Laminated Timber, T107: Shear Test
_____ 23/J15	AITC 200 (T110)	Inspection Manual for Structural Glued Laminated Timber, T110: Cyclic Delamination
_____ 23/J16	AITC 200 (T114)	Inspection Manual for Structural Glued Laminated Timber, T114: Bending Test for End Joints
_____ 23/J17	AITC 200 (T116)	Inspection Manual for Structural Glued Laminated Timber, T116: Modulus of Elasticity of E-Rated Lumber by Static Loading
_____ 23/J18**	AITC 200 (T119)	Inspection Manual for Structural Glued Laminated Timber, T119: Full Size End Joint Tension
_____ 23/J19	AITC 200 (T123)	Inspection Manual for Structural Glued Laminated Timber, T123: Sampling, Testing, and Data Analysis to Determine Tensile Properties of Lumber

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_____ 23/J21	ASTM D3535 CSA 0112.0-M Series 1977)	Resistance to Deformation Under Static Loading for Structural Wood Laminating Adhesives Used Under Exterior (Wet Use) Exposure Conditions (CSA Standards for Wood Adhesives, Sec. 0112.0-M: Clause 3.4: Creep Test)
_____ 23/J22	ASTM D5572	Adhesives Used for Finger Joints in Nonstructural Lumber Products
_____ 23/J23	ASTM D5751	Adhesives Used for Laminate Joints in Nonstructural Lumber Products

### STRUCTURAL-USE PANELS

_____ 23/S01	ASTM D3044	Shear Modulus of Plywood
_____ 23/S02	ASTM D3500 (Method B)	Structural Panels in Tension, Method B: Tensile Strength of Large Specimens
_____ 23/S02a	ASTM D3500 (Method A)	Structural Panels in Tension, Method A: Tensile Properties of Small Specimens
_____ 23/S03	ASTM D3501 (Method B)	Plywood in Compression, Method B: Compression Test for Large Specimens
_____ 23/S04	ASTM E661	Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads
_____ 23/S05**	PS-1 (Sec. 6.1.5.2)	Construction and Industrial Plywood, Sec. 6.1.5.2: Vacuum Pressure Test
_____ 23/S06	PS-1 (Sec. 6.1.5.3) (CAN/CSA-0325.1-88)	Construction and Industrial Plywood, Sec. 6.1.5.3: Boiling Test (Test Methods for Construction Sheathing, Clauses 3.1.13: Boiling; 5.15: Plywood Shear)
_____ 23/S07	PS-2 (Sec. 7.1) (CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec 7.1: Concentrated Static and Impact Load Test (Test Methods for Construction Sheathing, Clause 5.26: Concentrated Static and Impact Loads)
_____ 23/S08	PS-2 (Sec. 7.2) (CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.2: Uniform Load Test (Test Methods for Construction Sheathing, Clause 5.27: Uniformly Distributed Loads)
_____ 23/S09	PS-2 (Sec. 7.4) (CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.4: Fastener-Holding Resistance Test (Test Methods for Construction Sheathing, Clauses 5.23: Nail Lateral Resistance; 5.24: Nail Withdrawal Resistance)

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_____ 23/S10	PS-2 (Sec. 7.8) (CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.8: Linear Expansion Test Measured from Oven Dry or 50 % Relative Humidity to Vacuum-Pressure Soak (Test Methods for Construction Sheathing, Cl. 5.8: Linear Expansion-Oven Dry to Vacuum Pressure Soak)
_____ 23/S11	PS-2 (Sec. 7.9) (CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.9: Linear Expan. and Thickness Swell Test Measured after Wetting One Side (Test Methods for Construct. Sheathing, Clauses 5.10: Linear Expansion-One Side Wetting; 5.11: Thick. Swell-One Side Wetting)
_____ 23/S12	PS-2 (Sec. 7.10) (CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.10: Linear and Thickness Expansion Test Measured by Exposure to Relative Humidity (Test Methods for Construction Sheathing, Clause 5.9: Linear Expansion - 50% to 90% Relative Humidity)
_____ 23/S13	PS-2 (Sec. 7.16) (CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.16: Moisture Cycle Test for Bond Performance (Single Cycle Test) (Test Methods for Construction Sheathing, Clause 3.1.7: Single-Cycle Soak)
_____ 23/S14	PS-2 (Sec. 7.17) (CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.17: Moisture Cycle Test for Delamination and Strength Retention (Six-Cycle Test) (Test Methods for Construction Sheathing, Clause 3.1.6: Six-Cycle Soak)
_____ 23/S15	PS-2 (Sec. 7.18) (Supplement No.1-92 to CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.18: Bond Performance Test for Plywood with Knots and Knotholes (Test Methods for Construction Sheathing, Clause 5.32: Concentrated Static and Impact Loads at Location of Defect)
_____ 23/S16	PS-2 (Sec. 7.19) (Supplement No.1-92 to CAN/CSA-0325.1-88)	Wood-Based Structural-Use Panels, Sec. 7.19: Radial Probe Test (Test Methods for Construction Sheathing, Clause 5.31: Radial Probe Test)
_____ 23/S17	PS-2 (Sec. 7.3)	Wood-Based Structural-Use Panels, Sec. 7.3: Wall Racking Load Test
_____ 23/S18	PS-2 (Sec. 7.5)	Wood-Based Structural-Use Panels, Sec. 7.5: Large Panel Bending Test
_____ 23/S19	PS-2 (Sec. 7.6)	Wood-Based Structural-Use Panels, Sec. 7.6: Small Static Bending Test for OSB
_____ 23/S20	PS-2 (Sec. 7.7)	Wood-Based Structural-Use Panels, Sec. 7.7: Small Static (25 mm X 125 mm [1 in. X 5 in.]) Bending Test for Composites and Mat-Formed Panels
_____ 23/S21	PS-2 (Sec. 7.11)	Wood-Based Structural-Use Panels, Sec. 7.11: Panel Moisture Content Determination



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_____ 23/S22	PS-2 (Sec. 7.12)	Wood-Based Structural-Use Panels, Sec. 7.12: Panel Thickness Determination
_____ 23/S23	PS-2 (Sec. 7.13)	Wood-Based Structural-Use Panels, Sec. 7.13: Probe Test for Delamination
_____ 23/S24	PS-2 (Sec. 7.14)	Wood-Based Structural-Use Panels, Sec. 7.14: Adhesive Mold Test
_____ 23/S25	PS-2 (Sec. 7.15)	Wood-Based Structural-Use Panels, Sec. 7.15: Adhesive Bacteria Test

**TREATED WOOD PRODUCTS**

_____ 23/C01	AWPA A5 (Sec. 5)	Determination of Chloride for Calculating Pentachlorophenol in Solution or Wood, Sec. 5
_____ 23/C02	AWPA A6 (Sec. 1)	Determination of Oil-Type Preservatives in Wood by Extraction, Sec. 1
_____ 23/C03	AWPA A9	Analysis of Treated Wood and Treating Solutions by X-Ray Fluorescence Spectroscopy
_____ 23/C04	AWPA A11	Analysis of Treated Wood and Treating Solutions by Atomic Absorption (AA) Spectroscopy