



CERTIFICATE OF ACCREDITATION

This is to attest that

PFS CORPORATION

1507 MATT PASS
COTTAGE GROVE, WISCONSIN 53527, U.S.A.

Testing Laboratory TL-109

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.

Effective Date February 15, 2017



A handwritten signature in black ink that reads "Raj Nathan".

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

PFS CORPORATION

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Contact Name Steven Verhey

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Accredited to ISO/IEC 17025:2005

Effective Date February 15, 2017

Electrical	
UL 1026	Standard for household electric cooking and food serving appliances
Environmental	
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 E1333	Standard test method for determining formaldehyde concentrations in air and emission rates from wood products using a large chamber
NPA FTM 1-1983	Small scale test method for determining formaldehyde emissions from wood products
Heating/Cooling	
ANSI Z21.11.2	Gas-fired room heaters, volume II, unvented room heaters
ANSI Z21.50	Vented gas fireplaces
ANSI Z21.58	Outdoor cooking gas appliances
ANSI Z21.60	Decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.84	Standard for manually lighted, natural gas, decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.86	Vented gas-fired space heating appliances
ANSI Z21.88	Vented gas fireplace heaters
ANSI Z21.89	Outdoor cooking specialty gas appliances
ANSI Z21.91	Ventless firebox enclosures for gas-fired unvented decorative room heaters
ANSI Z21.97	Outdoor decorative gas appliances
ANSI Z83.7	Gas-fired construction heaters
ANSI Z83.8	Gas unit heaters, gas packaged heaters, gas utility heaters, and gas-fired duct furnaces
ANSI Z83.20	Gas-fired low-intensity infrared heaters
ASTM E1509	Standard specification for room heaters - pellet fuel-burning type
UL 127	Standard for factory-built fireplaces
UL 391	Standard for solid-fuel and combination-fuel central and supplementary furnaces
UL 647	Standard for unvented kerosene-fired room heaters and portable heaters
UL 737	Standard for fireplace stoves
UL 907	Standard for fireplace accessories

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UL 1370	Standard for unvented alcohol fuel burning decorative appliances
UL 1482	Standard for solid-fuel type room heaters
Physical	
AAMA 2200	Voluntary specifications for performance of exterior walking surface plank systems
AITC 200	Manufacturing quality control systems manual - includes the AITC test methods, otherwise known as t-tests
APA AFG-01	Adhesives for field-gluing plywood to wood framing
ASTM A90	Standard specification for structural bolts - alloy steel - heat treated - 150 ksi minimum tensile strength
ASTM C208	Standard specification for cellulosic fiber insulating board
ASTM C209	Standard test methods for cellulosic fiber insulating board
ASTM C271/C271M	Standard test method for density of sandwich core materials
ASTM C272	Standard test method for water absorption of core materials for sandwich constructions
ASTM C273/C273M	Standard test method for shear properties of sandwich core materials
ASTM C297/C297M	Standard test method for flatwise tensile strength of sandwich constructions
ASTM C365/C365M	Standard test method for flatwise compressive properties of sandwich cores
ASTM C393/C393M	Standard test method for core shear properties of sandwich constructions by beam flexure
ASTM C473	Standard test methods for physical testing of gypsum panel products
ASTM C481	Standard test method for laboratory aging of sandwich constructions
ASTM C557	Standard specification for adhesives for fastening gypsum wallboard to wood framing
ASTM C578	Standard specification for rigid, cellular polystyrene thermal insulation (excluding sections 11.4, 11.9 and 11.10)
ASTM D572	Standard test method for rubber—deterioration by heat and oxygen
ASTM D610	Standard practice for evaluating degree of rusting on painted steel surfaces
ASTM D790	Standard test methods for flexural properties of unreinforced and reinforced plastics and electrical insulating materials
ASTM D896	Standard practice for resistance of adhesive bonds to chemical reagents
ASTM D905	Standard test method for strength properties of adhesive bonds in shear by compression loading
ASTM D906	Standard test method for strength properties of adhesives in plywood type construction in shear by tension loading
ASTM D1002	Standard test method for apparent shear strength of single-lap-joint adhesively bonded metal specimens by tension loading (metal-to-metal)
ASTM D1101	Standard test methods for integrity of adhesive joints in structural laminated wood products for exterior use
ASTM D1151	Standard practice for effect of moisture and temperature on adhesive bonds
ASTM D1183	Standard practices for resistance of adhesives to cyclic laboratory aging conditions

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ASTM D1622	Standard test method for apparent density of rigid cellular plastics
ASTM D1623	Standard test method for tensile and tensile adhesion properties of rigid cellular plastics
ASTM D2294	Standard test method for creep properties of adhesives in shear by tension loading (metal-to-metal)
ASTM D2395	Standard test methods for density and specific gravity (relative density) of wood and wood-based materials
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 D2898	Standard practice for accelerated weathering of fire retardant-treated wood for fire testing
ASTM D2718	Standard test methods for structural panels in planar shear (rolling shear)
ASTM D3043	Standard test methods for structural panels in flexure (method C only)
ASTM D3110	Specification for adhesives used in laminate joints for nonstructural glued lumber products
ASTM D3498	Standard Specification for adhesives for field-gluing plywood to lumber framing for floor systems
ASTM D3500	Standard test methods for structural panels in tension
ASTM D3501	Standard test methods for wood-based structural panels in compression
ASTM D3535	Standard test method for resistance to creep under static loading for structural wood laminating adhesives used under exterior exposure conditions
ASTM D4442	Standard test methods for direct moisture content measurement of wood and wood-based materials
ASTM D4688/D4688M	Standard test method for evaluating structural adhesives for finger jointing lumber
ASTM D5572	Standard specification for adhesives used for finger joints in nonstructural lumber products
ASTM D5751	Standard specification for adhesives used for laminate joints in nonstructural lumber products
ASTM D6108	Standard test method for compressive properties of plastic lumber and shapes
ASTM D6109	Standard test methods for flexural properties of unreinforced and reinforced plastic lumber and related products
ASTM D6111	Standard test method for bulk density and specific gravity of plastic lumber and shapes by displacement
ASTM D6112	Standard test methods for compressive and flexural creep and creep-rupture of plastic lumber and shapes
ASTM D6341	Standard test method for determination of the linear coefficient of thermal expansion of plastic lumber and plastic lumber shapes between -30 and 140°F (-34.4 and 60°C)
ASTM D6435	Standard test method for shear properties of plastic lumber and plastic lumber shapes (Withdrawn 2007)
ASTM D6464	Standard specification for expandable foam adhesives for fastening gypsum wallboard to wood framing

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ASTM D6662	Standard specification for polyolefin-based plastic lumber decking boards
ASTM D7147	Standard Specification for Testing and Establishing Allowable Loads of Joist Hangers
ASTM D7247	Standard test method for evaluating the shear strength of adhesive bonds in laminated wood products at elevated temperatures
ASTM E8	Standard test methods for tension testing of metallic materials
ASTM E72	Standard test methods of conducting strength tests of panels for building construction
ASTM E96/E96M	Standard test methods for water vapor transmission of materials
ASTM E283	Standard test method for determining rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen
ASTM E330/E330M	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E331	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by uniform static air pressure difference
ASTM E455	Standard test method for static load testing of framed floor or roof diaphragm constructions for buildings
ASTM E489	Standard test method for tensile strength properties of metal connector plates
ASTM E514	Standard test method for water penetration and leakage through masonry
ASTM E529	Standard guide for conducting flexural tests on beams and girders for building construction
ASTM E564	Standard practice for static load test for shear resistance of framed walls for buildings
ASTM E695	Standard test method of measuring relative resistance of wall, floor, and roof construction to impact loading
ASTM E767	Standard test method for shear strength properties of metal connector plates
ASTM E935	Standard test methods for performance of permanent metal railing systems and rails for buildings
ASTM E985	Standard specification for permanent metal railing systems and rails for buildings
ASTM E1803	Standard test methods for determining strength capacities of structural insulated panels
ASTM E2126	Standard test methods for cyclic (reversed) load test for shear resistance of vertical elements of the lateral force resisting systems for buildings
ASTM F1575	Standard test method for determining bending yield moment of nails
CSA 0112-M Series	Standards for wood adhesives
CSA 0112.9	Evaluation of adhesives for structural wood products (exterior exposure) (except section 5.1)
ICC ES AC109	Thermoplastic composite lumber products [section 4 (except sections 4.3 and 4.4)]
ICC ES AC174	Deck board span ratings and guardrail systems (guards and handrails) [test methods referenced in section 3 (excluding sections 3.7, 3.9 and 3.10)]

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ICC ES AC212	Water-resistive coatings used as water-resistive barriers over exterior cementitious wall coverings [test methods referenced in section 4.0 (except sections 4.3 and 4.8)]
UBC Standard 15-5	Roof tile
UL Standard 441	Standard for gas vents (section 25)
Structural	
ANSI A208.1	Particleboard
ANSI A208.2	Medium density fiberboard (MDF) for interior applications
ANSI/AITC A190.1	Standard for wood products – structural glued laminated timber
ANSI/HPVA HP-1	Standard for hardwood and decorative plywood
ANSI/TPI 1-2000	National Design Standard for Metal Plate Connected Wood Truss Construction
ASTM C67	Standard test methods for sampling and testing brick and structural clay tile
ASTM C635/C635M	Standard specification for the manufacture, performance, and testing of metal suspension systems for acoustical tile and lay-in panel ceilings
ASTM C1185	Standard test methods for sampling and testing non- asbestos fiber-cement flat sheet, roofing and siding shingles, and clapboards
ASTM C1396/C1396M	Standard specification for gypsum board
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 D1037	Standard test methods for evaluating properties of wood base fiber and particle panel materials
ASTM D1761	Standard test methods for mechanical fasteners in wood
ASTM D2394	Standard test methods for simulated service testing of wood and wood-base finish flooring (sections 33 to 37)
ASTM D2718	Standard test methods for structural panels in planar shear (rolling shear)
ASTM D5055	Standard specification for establishing and monitoring structural capacities of prefabricated wood I-joists
ASTM D5266	Standard practice for estimating the percentage of wood failure in adhesive bonded joints
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 D6117	Standard test methods for mechanical fasteners in plastic lumber and shapes
ASTM D6464	Standard specification for expandable foam adhesives for fastening gypsum wallboard to wood framing
ASTM D6815	Standard specification for evaluation of duration of load and creep effects of wood and wood-based products
ASTM E66	
ASTM E73	Standard practice for static load testing of truss assemblies
ASTM E2322	Standard test method for conducting transverse and concentrated load tests on panels used in floor and roof construction
ICC ES AC13	Joist hangers and similar devices (section 3.0)

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ICC ES AC130	Prefabricated wood shear panels (section 5.0)
ICC ES AC233	Alternate dowel-type threaded fasteners (test methods referenced in section 4.0)
U.S. Department of Commerce Product Standards PS-1	Construction and industrial plywood
U.S. Department of Commerce Product Standards PS-2	Performance standard for wood-based structural-use panels

AAMA: American Architectural Manufacturers Association

AITC: American Institute of Timber Construction

APA: American Plywood Association

HPVA: Hardwood Plywood and Veneer Association

NOM: Norma Oficial Mexicana (Mexican Official Standards)

NPA: Natural Particleboard Association

TPI: Truss Plate Institute

UBC: Uniform Building Code

UL: Underwriters Laboratories