

ICC-ES Evaluation Report

ESR-4373

Reissued February 2024

Revised August 2025

Subject to renewal February 2026

This report also contains:

- [CA Supplement](#)
- [FL Supplement](#)
- [City of LA Supplement](#)



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DIVISION: 06 00 00— WOOD, PLASTICS AND COMPOSITES Section: 06 05 73.13— Fire-Retardant Wood Treatment	REPORT HOLDER: PROWOOD, LLC 	EVALUATION SUBJECT: PROWOOD® FR FIRE- RETARDANT-TREATED WOOD	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 [International Residential Code \(IRC\)](#)

Properties evaluated:

- Flame spread
- Structural
- Corrosion
- Hygroscopicity
- Fire-resistance-rated Wall Assemblies

2.0 USES

ProWood® FR fire-retardant-treated wood is used in areas that are not exposed to the weather or wetting, but may be exposed to dampness where the code permits the use of wood or fire-retardant-treated wood.

3.0 DESCRIPTION

3.1 General:

ProWood® FR fire-retardant-treated wood is lumber and plywood impregnated with ProWood® FR fire-retardant chemicals by a pressure process.

ProWood® FR treatment of lumber of the following species is identified as being fire retardant:

Southern Pine	Red Pine
Douglas Fir	Ponderosa Pine
Western Hemlock	White Fir
Alpine Fir	Hem Fir
Lodgepole Pine	Balsam Fir
White Spruce	Jack Pine

Spruce-Pine-Fir Engelmann Spruce

Red Spruce Black Spruce

ProWood[®] FR treatment of plywood fabricated with face and back veneers of the following species is identified as being fire retardant:

Douglas Fir Southern Pine

3.2 Flame Spread:

ProWood[®] FR fire-retardant-treated wood has a flame-spread index of 25 or less when subjected to ASTM E84 tests in accordance with IBC Section 2303.2 and 2024 IBC Section 2303.2.4 (2021 IBC Section 2303.2.3) and shows no evidence of significant progressive combustion when the tests are continued for an additional 20-minute period.

3.3 Structural Strength and Durability:

The effects of ProWood[®] FR fire-retardant treatment on the strength of the treated lumber and plywood must be accounted for in the design of the wood members and their connections as required by this section. Load duration factors greater than 1.6 are not permitted to be used in the design.

The strength properties of lumber when treated with ProWood[®] FR fire-retardant chemicals and used in applications at ambient temperatures up to 150°F (66°C), are subject to the design factors shown in [Tables 1](#) and [2](#) of this report.

The strength properties of plywood, when treated with ProWood[®] FR fire-retardant chemicals and used in applications at temperatures up to 170°F (77°C), are subject to the span limitations shown in [Table 3](#) of this report.

3.4 Corrosion:

The corrosion rate of aluminum, carbon steel, galvanized steel, stainless steel, copper or red brass in contact with wood is not increased by ProWood[®] FR fire-retardant treatment when the product is used as recommended by the manufacturer.

3.5 Hygroscopicity:

ProWood[®] FR treated wood qualifies as an Interior Type A (HT) fire-retardant wood in accordance with the American Wood Protection Association (AWPA) Standard U1, Commodity Specification H, Use Category UCFA.

4.0 DESIGN AND INSTALLATION

4.1 General:

Structural systems that include ProWood[®] FR fire-retardant-treated lumber or plywood must be designed and installed in accordance with the applicable code using the appropriate lumber design value adjustment factors and plywood spans from [Tables 1](#), [2](#) and [3](#) of this report. Ventilation must be provided in accordance with the applicable codes.

The design value adjustment factors and plywood load and spans in [Tables 1](#), [2](#) and [3](#) of this report are applicable under elevated temperatures resulting from cyclic climatic conditions. They are not applicable under continuous elevated temperatures resulting from manufacturing or other processes that require special consideration in design.

The treated lumber and plywood must only be used in areas (including attic spaces) where the lumber is exposed to temperatures of 150°F (66°C) or less and the plywood is exposed to temperatures of 170°F (76.5°C) or less.

Exposure to precipitation during storage or installation must be avoided. If material does become wet, it must be replaced or permitted to dry (maximum 19 percent moisture content for lumber and 15 percent moisture content for plywood) prior to covering or enclosure by wallboard or other construction materials.

4.2 Fasteners:

Fasteners used in ProWood[®] FR fire-retardant-treated wood must be galvanized steel, stainless steel, silicon bronze or copper, in accordance with 2024, 2021, 2018 and 2015 Section 2304.10.5 (2012, 2009 and 2006 IBC Section 2304.9.5) and 2024 IRC Section R304.3.4 [2021, 2018, 2015, 2012 and 2009 IRC Section R317.3.4 (2006 IRC Section R319.3)], and must be subject to the design value adjustments indicated in [Table 1](#) of this report.

4.3 Use as a Component of Fire-resistance-rated Wall Assemblies: In Type III, Type IV and Type V construction, the exterior wall assemblies may be constructed of ProWood® FR treated wood studs and plywood. The design values for the studs must be adjusted in accordance with [Tables 1](#) and [2](#). The allowable spans for the plywood sheathing must be in accordance with the spans given in [Table 3](#) for ProWood® FR Wall/Subfloor.

4.3.1 One-hour Exterior Wall Assembly: [Figure 2](#) presents a 1 Hour Load Bearing Wall rated from the interior side only; [Figure 3](#) presents a 1 Hour Load Bearing Wall rated from both interior side and the exterior side. When fire resistance rating is required from both sides, the wall must be in accordance with [Figure 3](#).

4.3.2 Two-hour Exterior Wall Assembly: [Figure 4](#) presents a 2 Hour Load Bearing Wall rated from the interior side only; [Figure 5](#) presents a 2 Hour Load Bearing Wall rated from interior side and which also carries a 1-hour rating from the exterior side. When fire resistance rating is required from both sides, the wall must be in accordance with [Figure 5](#).

4.4 Plywood Diaphragms and Shear Walls:

Wood-frame diaphragms and shear walls must be constructed in accordance with 2024, 2021, 2018, 2015 and 2012 IBC Sections 2306.2 and 2306.3 (2009 and 2006 IBC Sections 2306.3 and 2306.4), respectively.

When ProWood® fire-retardant-treated plywood is used in a diaphragm or shear wall, the panel thickness must be increased by 1/8 inch (3.18 mm) than that determined for the allowable shear values in Sections 4.2 or 4.3 of ANSI/AWC Special Design Provisions for Wind and Seismic (SDPWS) or as shown in the Tables referenced in 2024, 2021, 2018, 2015 and 2012 IBC Section 2306.2 or 2306.3 (2009 and 2006 IBC Section 2306.3 or 2306.4). Thickness to be used for FRT plywood compared to untreated plywood in diaphragm and shear walls are shown as follows:

ProWood® FRT Plywood Thickness (inches)	Untreated Plywood Thickness (inches)
19/32	7/16
19/32	15/32
5/8	1/2
23/32	19/32
3/4	5/8
7/8	23/32
7/8	3/4

5.0 CONDITIONS OF USE:

The ProWood® FR fire-retardant-treated wood described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Strength calculations must be subject to the design factors or span ratings shown in [Tables 1](#), [2](#) and [3](#) of this report.
- 5.2** The design value adjustment factors and span ratings given in this report must only be used for unincised dimension lumber and plywood of the species noted in this report.
- 5.3** ProWood® FR treated wood must not be installed where it will be exposed to precipitation, direct wetting or regular condensation.
- 5.4** ProWood® FR treated wood must not be used in contact with the ground.
- 5.5** ProWood® FR lumber must not be ripped or milled as this will alter the surface-burning characteristics and invalidate the flame spread classification. Wall, floor and roof framing, consisting of end cuts, holes, joints such as tongue and groove, bevel, scarf, and lap, may be used.
- 5.6** Treatment is at the facilities of the listees noted in this report under a quality control program with inspections by ICC-ES and UL, FR-S, Timber Products Inspection, Inc. (AA-696) or Southern Pine Inspection Bureau (AA-680).

6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Fire-retardant-treated Wood \(AC66\)](#), dated June 2025.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-4373) along with the name, registered trademark, or registered logo of the report holder and/or listee must be included in the product label.
- 7.2 In addition, lumber and plywood treated with ProWood[®] FR fire-retardant chemicals must be identified by the structural grade mark of an approved agency. In addition, all treated lumber and plywood must be stamped with the name of the inspection agency [Underwriters Laboratory FR-S, Timber Products Inspection, Inc. (AA-696) or Southern Pine Inspection Bureau (AA-680)]; Universal Forest Products, name and location; the production plant identification name and location; and labeling information in accordance with 2024 IBC Section 2303.2.5 [2021, 2018, 2015, 2012 and 2009 IBC Section 2303.2.4 (2006 IBC Section 2303.2.1)] or 2024 IRC Section R302.15.4 [2021, 2018 and 2015 IRC Section R802.1.5.4 (2012 and 2009 IRC Section R802.1.3.4) (2006 IRC Section R802.1.3.1)]; and the evaluation report number (ESR-4373). Refer to [Figure 1](#).

- 7.3 The report holder's contact information is the following:

PROWOOD, LLC
2801 EAST BELTLINE NE
GRAND RAPIDS, MICHIGAN 49525
(616) 364-2060
www.ufpi.com

- 7.4 The Manufacturing Locations' contact information is the following:

PROWOOD, LLC
19560 HIGHWAY 127 NORTH
ATHENS, ALABAMA 35614
(256) 278-3211
rmayhall@sunbeltfp.com

UFP HAMILTON, LLC
115 DISTRIBUTION DRIVE
HAMILTON, OHIO 45015
(513) 285-7190
fufkesjr@ufpi.com

UFP MOULTRIE, LLC
560 INDUSTRIAL DRIVE
MOULTRIE, GEORGIA 31788

UFP SAGINAW, LLC
444 SANSOM BOULEVARD
SAGINAW, TEXAS 76479
mnewsom@ufpi.com

UFP WINDSOR, LLC
15 EAST WALNUT STREET
WINDSOR, COLORADO 80550

TABLE 1—STRENGTH DESIGN FACTORS FOR PROWOOD[®] FR FIRE RETARDANT TREATED LUMBER COMPARED TO UNTREATED LUMBER APPLICABLE AT SERVICE TEMPERATURES UP TO 100°F (38°C)

STRENGTH DESIGN FACTORS	SOUTHERN PINE	DOUGLAS FIR	SPRUCE-PINE-FIR	OTHER SPECIES
Modulus of Rupture (MOR), [F _b]	0.82	1.00	0.95	0.82
Modulus of Elasticity (MOE), [E]	0.87	1.00	0.94	0.87
Work to Maximum Load (WML)	0.72	0.93	0.90	0.72
Ultimate Tensile Strength (UTS), [F _t]	0.99	1.00	0.98	0.98
Maximum Compressive Strength (MCS), [F _c]	0.96	0.96	1.00	0.96
Ultimate Shear Strength (USS), [F _v]	0.95	1.00	0.99	0.95
Fasteners/Connectors	0.90	0.90	0.90	0.90

TABLE 2—STRENGTH DESIGN FACTORS FOR PROWOOD[®] FR FIRE RETARDANT TREATED LUMBER COMPARED TO UNTREATED LUMBER APPLICABLE AT SERVICE TEMPERATURES UP TO 150°F (66°C)^{1,2}

STRENGTH DESIGN FACTORS	Southern Pine			Douglas Fir			Spruce-Pine-Fir			Other Species		
	Climate Zone			Climate Zone			Climate Zone			Climate Zone		
	1A	1B	2	1A	1B	2	1A	1B	2	1A	1B	2
Modulus of Rupture (MOR), [F _b]	0.82	0.82	0.82	0.88	0.93	0.98	0.81	0.87	0.93	0.81	0.82	0.82
Modulus of Elasticity (MOE), [E]	0.87	0.87	0.87	1.00	1.00	1.00	0.94	0.94	0.94	0.87	0.87	0.87
Work to Maximum Load (WML)	0.69	0.70	0.71	0.92	0.93	0.93	0.69	0.77	0.87	0.69	0.70	0.71
Ultimate Tensile Strength (UTS), [F _t]	0.70	0.84	0.96	1.00	1.00	1.00	0.81	0.90	0.97	0.70	0.84	0.96
Maximum Compressive Strength (MCS), [F _c]	0.66	0.81	0.93	0.84	0.89	0.94	0.83	0.91	0.98	0.66	0.81	0.93
Ultimate Shear Strength (USS), [F _v]	0.66	0.80	0.93	0.88	0.93	0.98	0.82	0.91	0.97	0.66	0.80	0.93
Fasteners/Connectors	0.66	0.81	0.90	0.84	0.89	0.90	0.83	0.90	0.90	0.66	0.81	0.90

¹ Climate Zone definitions:

Zone 1 – Minimum design roof live load or maximum ground snow load ≤ 20 psf (960 Pa)

Zone 1A – Southwest Arizona, Southeast Nevada (Area Bounded by Las Vegas-Yuma-Phoenix-Tucson)

Zone 1B – All other qualifying areas of the United States

Zone 2 – Maximum ground snow load > 20 psf (960 Pa)

² Duration of load adjustments for snow loads, 7-day (construction) loads, and wind loads as given in the *National Design Specification[®] for Wood Construction[®]* (NDS) also apply.**TABLE 3—MAXIMUM LOADS AND SPANS FOR PROWOOD[®] FR FIRE RETARDANT TREATED PLYWOOD AT SERVICE TEMPERATURES FROM > 100°F (38°C) UP TO 170°F (77°C)^{1,2,3,4,5}**

PANEL/SHEATHING THICKNESS	Span Rating for Untreated Roof/Sub-floor Sheathing	ProWood® FR Roof Sheathing Maximum Total Load (psf)				ProWood® FR Wall or Subfloor
		Span (Inches)	Climate Zone			Span (Inches)
			1A	1B	2	
¹⁵ / ₃₂ , ¹ / ₂	32/16	24	31	47	68	16 24 (walls only)
¹⁹ / ₃₂ , ⁵ / ₈	40/20	24 32	48 27	74 42	107 60	20 20
²³ / ₃₂ , ³ / ₄	48/24	32 48	34 15	52 23	76 34	24 24
⁷ / ₈		32 48	43 19	66 29	95 42	24 24
1		32 48	58 26	88 39	127 57	24 24
^{1 1} / ₈		32 48	73 32	111 49	161 71	24 24

¹ For Surface Temperatures < 100°F, use Untreated Span Ratings² Allowable total loads are for unsanded, Structural 1 & 2 Grade plywood, manufactured with Group 1 Species, stress grade S-2 (F_b=1650 psi), one-and-two span conditions.³ For allowable live loads, subtract dead loads (assumed to be 8 psf) from total loads listed above.⁴ Climate Zone definitions:

Zone 1 – Minimum design roof live load or maximum ground snow load ≤ 20 psf (960 Pa)

Zone 1A – Southwest Arizona, Southeast Nevada (Area Bounded by Las Vegas-Yuma-Phoenix-Tucson)

Zone 1B – All other qualifying areas of the United States

Zone 2 – Maximum ground snow load > 20 psf (960 Pa)

⁵ For other load conditions, contact manufacturer.

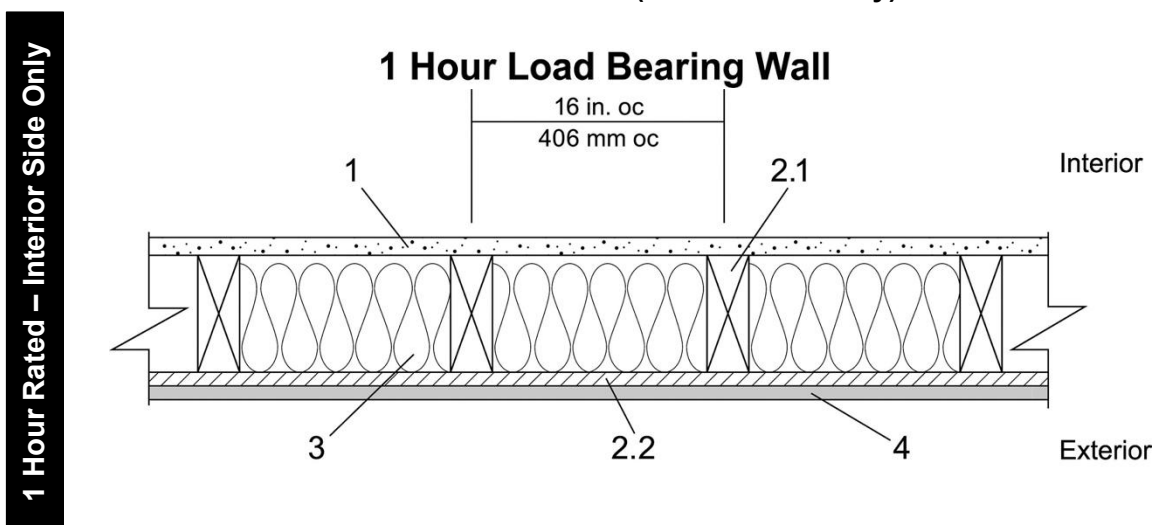
ProWood[®] FR Sample Labels

 Interior Type A High Temperature (HT) Fire Retardant Treated Wood ESR-4373 KDAT Species Year Treater Name • Location	UL Classified FR-S PLYWOOD FLAME SPREAD/SMOKE DEVELOPED: 30 MINUTE TEST: 25 or less STD-PWFR-19	 Interior Type A High Temperature (HT) Fire Retardant Treated Wood ESR-4373 KDAT Species Year Treater Name • Location	UL Classified FR-S LUMBER FLAME SPREAD/SMOKE DEVELOPED: 30 MINUTE TEST: 25 or less STD-PWFR-19
 Interior Type A High Temperature (HT) Fire Retardant Treated Wood ESR-4373 KDAT Species Year Treater Name • Location	PLYWOOD FLAME SPREAD/SMOKE DEVELOPED: ASTM E84 30 MINUTE TEST: 25 or less TP Monitored (AA-696) STD-PWFR-19	 Interior Type A High Temperature (HT) Fire Retardant Treated Wood ESR-4373 KDAT Species Year Treater Name • Location	LUMBER FLAME SPREAD/SMOKE DEVELOPED: ASTM E84 30 MINUTE TEST: 25 or less TP Monitored (AA-696) STD-PWFR-19
 Interior Type A High Temperature (HT) Fire Retardant Treated Wood ESR-4373 KDAT Species Year Treater Name • Location	PLYWOOD FLAME SPREAD/SMOKE DEVELOPED: ASTM E84 30 MINUTE TEST: 25 or less SPIB Monitored (AA-680) STD-PWFR-19	 Interior Type A High Temperature (HT) Fire Retardant Treated Wood ESR-4373 KDAT Species Year Treater Name • Location	LUMBER FLAME SPREAD/SMOKE DEVELOPED: ASTM E84 30 MINUTE TEST: 25 or less SPIB Monitored (AA-680) STD-PWFR-19

FIGURE 1—LUMBER AND PLYWOOD STAMPS



Fire Retardant Wood ProWood[®] FR Lumber and Plywood
ASTM E119 Rating: 1 Hour Load Bearing (2015 NDS – F 0.96 for FRWT)
Rated from One Side (Interior Side Only)



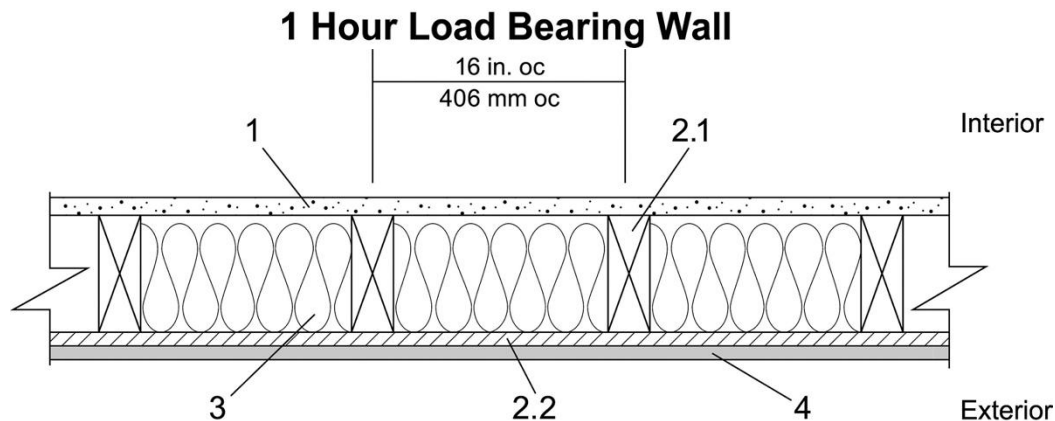
1. **Gypsum Board (Interior):** One-layer Type X, complying with ASTM C1396, minimum $\frac{5}{8}$ -inch-thick (16 mm), 4 feet (1.2 m) wide applied vertically, fastened to framing. Joints covered with paper tape and joint compound. Minimum No. 6 x $1\frac{5}{8}$ -inches-long (41 mm) Type S or W screws spaced maximum 6 inches (152 mm) on center (o.c.) and heads covered with joint compound.
2. **Report Holder:** ProWood, LLC
Product: ProWood[®] FR
 - 2.1 **Model:** ProWood[®] FR Lumber
 ProWood[®] FR Lumber is minimum 2 x 4 inches nominal wood studs, spaced maximum 16 inches (406 mm) o.c., or 2 x 6 inches nominal wood studs spaced 24 inches (610 mm) o.c., double top plates and single bottom plate fastened together with 16d common nails [$3\frac{1}{2}$ inches x 0.162 inches (89 mm x 4.1 mm)], 16d box nails [$3\frac{1}{2}$ inches x 0.135 inches (89 mm x 3.4 mm)], or 12d ring nails [$3\frac{1}{4}$ inches x 0.135 inches (82.5 mm x 3.4 mm)].
 - 2.2 **Model (Exterior):** ProWood[®] FR Plywood ProWood[®] FR Plywood, minimum $\frac{15}{32}$ -inch-thick (11.9 mm), applied vertically over the specified framing with minimum. $2\frac{3}{8}$ -inch-long (60 mm), 0.113 inch (2.9 mm) diameter nails, spaced maximum 8 inches (203 mm) o.c. around the perimeter and maximum 12 inches (305 mm) o.c. in the field. Horizontal joints must be blocked.
3. **Insulation:** Fiberglass Class A batt insulation minimum $3\frac{1}{2}$ -inch-thick (89 mm), R-13 friction fit between the studs. If 2 x 6 inches nominal wood studs are used, fiberglass batt insulation shall be min. $5\frac{1}{2}$ -inch-thick (140 mm).
4. **Exterior Facings (Optional):** Materials installed in accordance with manufacturer's installation instructions:
 - Masonry brick veneer or concrete
 - Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat
 - Hardboard, wood structural panel, plywood, or fiber-cement siding
 - Metal siding
 - Vinyl siding - exterior plastic

FIGURE 2—ONE-HOUR FIRE RESISTANCE ASSEMBLY

pro'wood[®]FR
FIRE RETARDANT

Fire Retardant Wood ProWood[®] FR Lumber and Plywood
ASTM E119 Rating: 1 Hour Load Bearing (2015 NDS – F 0.96 for FRWT)
Rated from Interior and Exterior

1 Hour Rated – Interior and Exterior



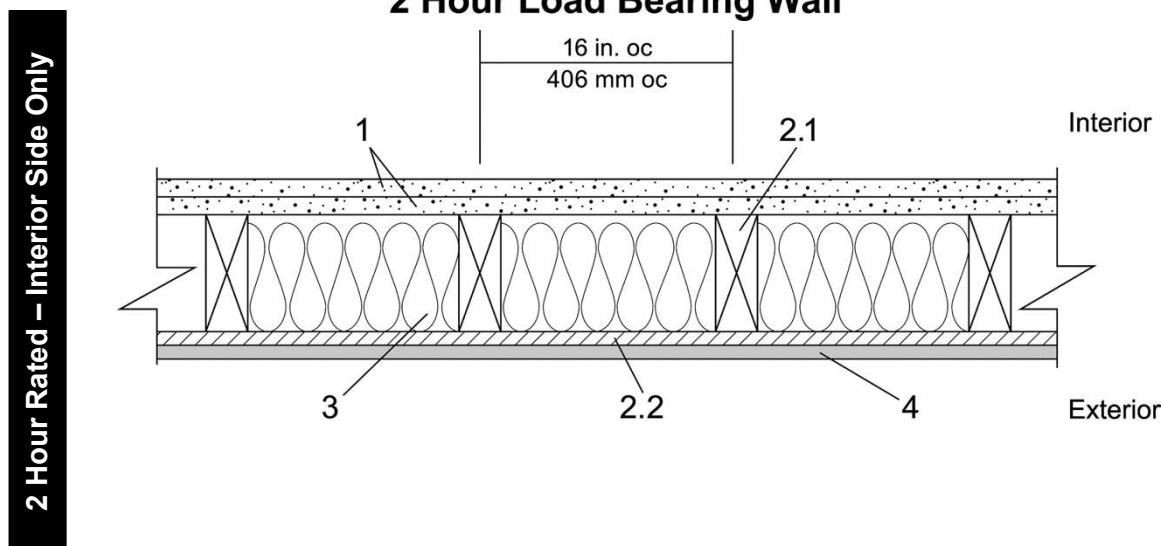
1. **Gypsum Board (Interior):** One-layer Type X complying with ASTM C1396, minimum $\frac{5}{8}$ -inch-thick (15.9 mm), 4 feet (1.2 m) wide applied vertically, fastened to framing. Joints covered with paper tape and joint compound. Minimum No. 6 x $1\frac{5}{8}$ inch (41 mm) long Type S or W screws spaced maximum 6 inches (152 mm) on center (o.c.) and heads covered with joint compound.
2. **Report Holder:** ProWood, LLC
Product: ProWood[®] FR
- 2.1 **Model:** ProWood[®] FR Lumber
ProWood[®] FR Lumber is minimum. 2 x 4 inches nominal wood studs, spaced maximum 16 inches (406 mm) o.c., or 2 x 6 inches nominal wood studs spaced 24 inches (610 mm) o.c., double top plates and single bottom plate fastened together with 16d common nails [$3\frac{1}{2}$ inches x 0.162 inches (89 mm x 4.1 mm)], 16d box nails [$3\frac{1}{2}$ inches x 0.135 inches (89 mm x 3.4 mm)], or 12d ring nails [$3\frac{1}{4}$ inches x 0.135 inches (83 mm x 3.4 mm)].
- 2.2 **Model (Exterior):** ProWood[®] FR Plywood ProWood Plywood, minimum $\frac{15}{32}$ -inch-thick (11.9 mm), applied vertically over the specified framing with minimum $2\frac{3}{8}$ inches long (60 mm), 0.113 inch (2.9 mm) diameter nails, spaced maximum 8 inches (203 mm) o.c. around the perimeter and maximum 12 inches (305 mm) o.c. in the field. Horizontal joints must be blocked.
3. **Insulation:** Fiberglass Class A batt insulation min. $3\frac{1}{2}$ -inch-thick (89 mm) R-13 friction fit between the studs. If 2 x 6 inches nominal wood studs are used, fiberglass batt insulation shall be minimum. $5\frac{1}{2}$ -inch-thick (140 mm).
4. **Exterior Facings:** Materials installed in accordance with manufacturer's installation instructions:
 - $\frac{3}{4}$ -inch-thick (19.1 mm) cement plaster (1:4 ratio of cement to sand for scratch coat and 1:5 ratio for brown coat)
 - Nominal 2.7 inch (68.5 mm) thick solid brick fastened using min. 22 GA wall ties
 - Nominal 2.3 inch (58.4 mm) thick hollow brick fastened using min. 22 GA wall ties

FIGURE 3—ONE-HOUR FIRE RESISTANCE ASSEMBLY



Fire Retardant Wood ProWood® FR Lumber and Plywood
ASTM E119 Rating: 2 Hour Load Bearing (2015 NDS – F 0.96 for FRWT)
Rated from One Side (Interior Side Only)

2 Hour Load Bearing Wall



1. **Gypsum Board (Interior):** Two-layers Type C USG Firecode® C Core complying with ASTM C1396, minimum $\frac{5}{8}$ -inch-thick (15.9 mm), 4 feet (1.2 m) wide applied vertically, fastened to framing. Face layer joints staggered with base layer and covered with paper tape and joint compound.

Fasteners (Not Shown):

Face Layer - Minimum No. 6 x 2 inches (51 mm) long Type S or W screws spaced maximum 8 inches (203 mm) on center (o.c.) and heads covered with joint compound.

Base Layer – Minimum No. 6 x $1\frac{5}{8}$ inches (41 mm) long Type S or W screws, spaced maximum 6 inches (152 mm) o.c.

2. **Report Holder:** ProWood, LLC

Product: ProWood® FR

- 2.1 **Model:** ProWood® FR Lumber

ProWood® FR Lumber is min. 2 x 4 inches nominal wood studs, spaced maximum 16 inches (406 mm) o.c., or 2 x 6 inches nominal wood studs spaced 24 inches (610 mm) o.c., double top plates and single bottom plate fastened together with 16d common nails [$3\frac{1}{2}$ inches x 0.162 inches (89 mm x 4.1 mm)], 16d box nails [$3\frac{1}{2}$ inches x 0.135 inches (89 mm x 3.4 mm)], or 12d ring nails [$3\frac{1}{4}$ inches x 0.135 inches (83 mm x 3.4 mm)].

- 2.2 **Model (Exterior):** ProWood® FR Plywood

ProWood® FR Plywood, min. $\frac{15}{32}$ -inch-thick (11.9 mm), applied vertically over the specified framing with minimum. $2\frac{3}{8}$ inches long (60.3 mm), 0.113-inch (2.9 mm) diameter nails, spaced maximum 8 inches (203 mm) o.c. around the perimeter and max. 12 inches (305 mm) o.c. in the field. Horizontal joints must be blocked.

3. **Insulation:** Fiberglass Class A batt insulation minimum $3\frac{1}{2}$ -inch-thick (89 mm) R-13 friction fit between the studs. If 2 x 6 inches nominal wood studs are used, fiberglass batt insulation shall be minimum $5\frac{1}{2}$ -inch-thick (140 mm).

4. **Exterior Facings (Optional):** Materials installed in accordance with manufacturer's installation instructions:

- Masonry brick veneer or concrete
- Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat
- Hardboard, wood structural panel, plywood, or fiber-cement siding
- Metal siding
- Vinyl siding - exterior plastic

FIGURE 4—TWO-HOUR FIRE RESISTANCE ASSEMBLY

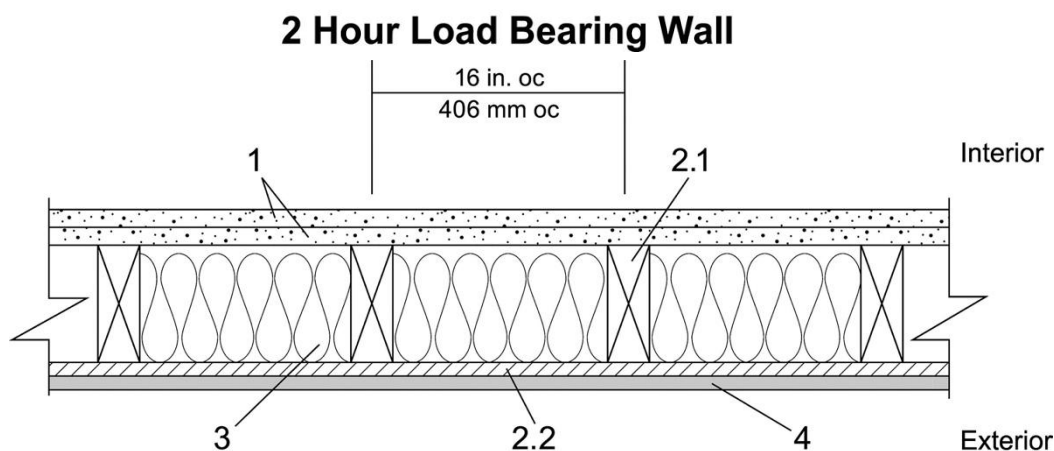


Fire Retardant Wood ProWood® FR Lumber and Plywood

ASTM E119 Rating: 2 Hour Load Bearing (2015 NDS – F 0.96 for FRWT)

Rating: 2 Hour Load Bearing from the Interior and 1 Hour Load Bearing from the Exterior

2 Hour Rated Interior & 1 Hour Rated Exterior



1. **Gypsum Board (Interior):** Two-layers Type C USG Firecode® C Core complying with ASTM C1396, minimum. $\frac{5}{8}$ -inch-thick (15.9 mm), 4 feet (1.2 m) wide applied vertically, fastened to framing. Face layer joints staggered with base layer and covered with paper tape and joint compound.

Fasteners (Not Shown):

Face Layer- Minimum No.6 x 2 inches long Type S or W screws spaced maximum 8 inches (203 mm) on center (o.c.) and heads covered with joint compound.

Base Layer - Minimum No.6 x $1\frac{5}{8}$ inches (41 mm) long Type S or W screws, spaced max. 6 inches (152.4 mm) o.c.

2. **Report Holder:** ProWood, LLC

Product: ProWood® FR

- 2.1 **Model:** ProWood® FR Lumber

ProWood® FR Lumber is minimum 2x4 inches nominal wood studs, spaced maximum 16 inches (406 mm) o.c., or 2 x 6 inches nominal wood studs spaced 24 inches (610 mm) o.c., double top plates and single bottom plate fastened together with 16d common nails [$3\frac{1}{2}$ inches x 0.162 inches (89 mm x 4.1 mm)], 16d box nails [$3\frac{1}{2}$ inches x 0.135 inches (89 mm x 3.4 mm)], or 12d ring nails [$3\frac{1}{4}$ inches x 0.135 inches (83 mm x 3.4 mm)].

- 2.2 **Model (Exterior):** ProWood® FR Plywood ProWood® FR Plywood, minimum $\frac{15}{32}$ -inch-thick (11.9 mm), applied vertically over the specified framing with minimum $2\frac{3}{8}$ inches long (60 mm), 0.113 inch (2.9 mm) diameter nails, spaced maximum 8 inches (203 mm) o.c. around the perimeter and maximum 12 inches (305 mm) o.c. in the field. Horizontal joints must be blocked.

- 3 **Insulation:** Fiberglass Class A batt insulation minimum. $3\frac{1}{2}$ - inch-thick (89 mm) R-13 friction fit between the studs. If 2 x 6 inches nominal wood studs are used, fiberglass batt insulation shall be min. $5\frac{1}{2}$ -inch-thick (140 mm) R-19.

- 4 **Exterior Facings:** Materials installed in accordance with manufacturer's installation instructions:

- $\frac{3}{4}$ -inch-thick (19.1 mm) cement plaster (1:4 ratio of cement to sand for scratch coat and 1:5 ratio for brown coat)
- Nominal 2.7 inches-thick (68.6 mm) solid brick fastened using min. 22 GA wall ties
- Nominal 2.3 inches (58.4 mm) thick hollow brick fastened using minimum 22 GA wall ties

FIGURE 5—TWO-HOUR FIRE RESISTANCE ASSEMBLY

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 05 73.13—Fire-Retardant Wood Treatment

REPORT HOLDER:

PROWOOD, LLC

EVALUATION SUBJECT:

PROWOOD® FR FIRE-RETARDANT-TREATED WOOD

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that ProWood® FR fire-retardant-treated wood, described in ICC-ES evaluation report [ESR-4373](#), has also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2023 City of Los Angeles Building Code ([LABC](#))
- 2023 City of Los Angeles Residential Code ([LARC](#))

2.0 CONCLUSIONS

The ProWood® FR fire-retardant-treated wood, described in Sections 2.0 through 7.0 of the evaluation report [ESR-4373](#), complies with the LABC Chapter 23, and the LARC, and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The ProWood® FR fire-retardant-treated wood described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-4373](#).
- The design, installation, conditions of use and identification of the ProWood® FR fire-retardant-treated wood are in accordance with the 2021 *International Building Code*® (IBC) and 2021 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-4373](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 23, as applicable.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.

This supplement expires concurrently with the evaluation report, reissued February 2024 and revised August 2025.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 05 73.13—Fire-Retardant Wood Treatment

REPORT HOLDER:**PROWOOD, LLC****EVALUATION SUBJECT:****PROWOOD® FR FIRE-RETARDANT-TREATED WOOD****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that Prowood® FR fire-retardant-treated wood, described in ICC-ES evaluation report [ESR-4373](#), has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2022 California Building Code (CBC)

For evaluation of applicable Chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2022 California Residential Code (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The Prowood® FR fire-retardant-treated wood, described in Sections 2.0 through 7.0 of evaluation report [ESR-4373](#), complies with CBC Chapter 23, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 23, as applicable.

The products have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Prowood® FR fire-retardant-treated wood, described in Sections 2.0 through 7.0 of evaluation report [ESR-4373](#), complies with the CRC Section R802, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of the CRC Section R802, as applicable.

The products have not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

This supplement expires concurrently with the evaluation report, reissued February 2024 and revised August 2025.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 05 73.13—Fire-Retardant Wood Treatment

REPORT HOLDER:

PROWOOD, LLC

EVALUATION SUBJECT:

PROWOOD® FR FIRE-RETARDANT-TREATED WOOD

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that ProWood® FR Fire Retardant-Treated Wood, described in ICC-ES evaluation report [ESR-4373](#), has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2023 Florida Building Code—Building
- 2023 Florida Building Code—Residential

2.0 CONCLUSIONS

The ProWood® FR Fire-Retardant Treated Wood, described in Sections 2.0 through 7.0 of ICC-ES evaluation report [ESR-4373](#), complies with the *Florida Building Code—Building* and *Florida Building Code—Residential*. The design requirements must be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report [ESR-4373](#) for the 2021 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable, with the following conditions:

Use of the ProWood® FR Fire-Retardant Treated Wood for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential* has not been evaluated, and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued February 2024 and revised August 2025.