



PRODUCT REPORT[®]

LP BURNGUARD™ FRT OSB Wall Sheathing **Louisiana-Pacific Corporation**

PR-N141

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Products: LP BurnGuard™ FRT OSB Wall Sheathing

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1. Basis of the product report:
 - 2024, 2021, 2018, and 2015 International Building Code (IBC): Section 2303.2 Fire-retardant-treated-wood
 - 2024 International Residential Code (IRC): Section R302.15 Fire-retardant-treated-wood, Section R802.1.5 of the 2021, 2018 and 2015 IRC
 - 2021 and 2015 ANSI/AWC Special Design Provisions for Wind and Seismic (SDPWS)
 - US DOC PS 2-18, Performance Standard for Wood Structural Panels
 - APA Panel Design Specification
 - APA Engineered Wood Construction Guide
 - APA Report T2023-P47, qualification reports and other qualification data

2. Product description:

LP BurnGuard™ FRT OSB is a fire-retardant-treated oriented strand board (OSB) made with strands of various species and strand classifications in accordance with the in-plant manufacturing standard approved by APA. The OSB is treated with a fire retardant chemical, by directly blending it with wood strands prior to pressing to provide coverage throughout the panel in accordance with Section 2303.2.3 of the 2024 IBC and Section 2303.2.2 of the 2021, 2018, and 2015 IBC and Section R302.15.2 of the 2024 IRC and Section R802.1.5.2 of the 2021, 2018, and 2015 IBC.

LP BurnGuard™ FRT OSB consists of Louisiana-Pacific 7/16 Performance Category, APA Rated Sheathing with a Wall-24 oc span rating complying with US DOC PS 2 and manufactured in accordance with the in-plant manufacturing standard approved by APA.

The manufacturing processes and quality assurance of the LP BurnGuard™ FRT OSB is documented in the in-plant manufacturing standard approved by APA.

3. Panel performance properties:

LP BurnGuard™ FRT OSB meets the performance requirements specified in US DOC PS 2, Form S350 (www.apawood.org/resource-library) for Exposure 1 panels for wall applications only. LP BurnGuard™ FRT OSB has a span rating of Wall-24 as designated on the panel trademark, and shall be designed for shear wall based on Section 4.3 of SDPWS and braced wall as 7/16 Performance Category, PS 2 Sheathing Grade.

LP BurnGuard™ FRT OSB shall be designed for wind transverse pressures at a design span of 24-inch o.c. as shown in the trademark in accordance with Sections 1609 and 2304.6 of 2024 through 2015 IBC and Section R301.2.1 of 2024 through 2015 IRC. Table 1 shows the ultimate design wind speeds applicable to LP BurnGuard™ FRT OSB along with the minimum required nail size.

Table 1. Wind Speed Design for LP BurnGuard™ FRT OSB applied direct-to-studs^(a, b, c)

Minimum nail		Minimum Panel Performance Category	Wall Stud Spacing (in.)	Panel Nail Spacing		Ultimate Design Wind Speed (mph)		
Shank Diameter (in.)	Minimum Penetration (in.)			Edges (in. o.c.)	Field (in. o.c.)	Wind Exposure Category		
						B	C	D
0.113	1.5	7/16	16	6	12	150	125	115
					6	190	160	150
0.131	1.75	7/16	16	6	12	170	140	135
					6	190	160	150
			24 or less	6	12	140	115	110

For SI: 1 lbf-in.²/ft = 9.415 x 10⁻⁶ kN-m²/m, 1 lbf-in./ft = 3.707 x 10⁻⁴ kN-m/m, 1 lbf/ft = 0.0146 N/mm, 1 pcf = 16.018 kg/m³

- (a) Panel strength axis parallel or perpendicular to supports.
- (b) Wind pressures acting toward and away from building surfaces, at 30-ft height in wall Zone 5 with smallest effective area per Chapter 26 of ASCE 7-22, ASCE 7-16, and ASCE 7-10, Section R301.2.1 of the 2024 through 2015 IRC, and Section 1609.1.1 of the 2024 through 2015 IBC.
- (c) Supported panel joints shall occur approximately along the center line of framing with a minimum bearing of ½ inch.

LP BurnGuard™ FRT OSB has been evaluated for compliance with Section 2303.2 of the 2024 through 2015 IBC and Section R302.15 of the 2024 IRC and Section R802.1.5 of the 2021, 2018 and 2015 IRC for use as fire-retardant-treated wood structural panels. LP BurnGuard™ FRT OSB meets Class I (or A) flame spread index when tested in accordance with ASTM E84, *Standard Test Method for Surface Burning Characteristics of Building Materials*. It has a flame-spread index of 25 or less, when tested for an additional 20-minute period and has a maximum flame front progression not more than 10.5 ft. LP BurnGuard™ FRT OSB has a moisture content of 28% or less when evaluated with ASTM D3201, *Standard Test Method for Hygroscopic Properties of Fire-Retardant Wood and Wood-Based Products*, as specified in Section 2303.2.8 of the 2024 IBC and Section 2303.2.7 of the 2021, 2018 and 2015 IBC and Section R302.15.9 of the 2024 IRC and Section R802.1.5.9 of the 2021, 2018 and 2015 IRC for FRT wood structural panels for interior applications.

4. Product installation:

LP BurnGuard™ FRT OSB recognized in this report shall be installed in accordance with recommendations provided by the manufacturer ([LP BurnGuard Installation Instructions](#)).

5. Limitations:

- a) LP BurnGuard™ FRT OSB recognized in this report shall be used in wall application only with a design span not exceeding the span rating shown in the trademark.
- b) LP BurnGuard™ FRT OSB is limited to dry service conditions where the average equilibrium moisture content of sawn lumber is less than 16%.
- c) LP BurnGuard™ FRT OSB is produced by LP at the Person County manufacturing facility in Roxboro, NC under a quality assurance program audited by APA.
- d) This report is subject to re-examination in one year.

6. Identification:

LP BurnGuard™ FRT OSB described in this report is identified by a label or stamp bearing the manufacturer's name and/or trademark (Louisiana-Pacific Corporation), the APA assigned plant number (456 for the Roxboro, NC plant), the product thickness and span rating, the APA logo, the report number PR-N141, and a means of identifying the date of manufacture.

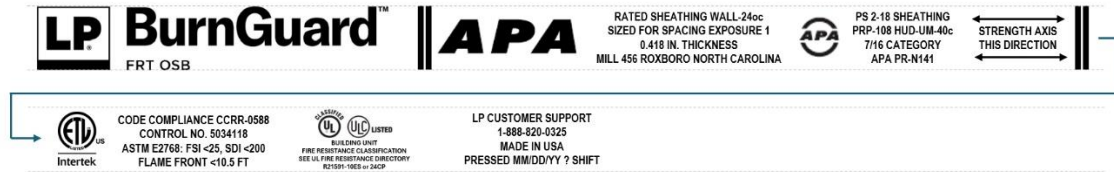


Figure 1. Typical LP BurnGuard™ FRT OSB mark

APA – *The Engineered Wood Association* is an approved national standards developer accredited by American National Standards Institute (ANSI). APA publishes ANSI standards and Voluntary Product Standards for wood structural panels and engineered wood products. APA is an accredited certification body under ISO/IEC 17065 by Standards Council of Canada (SCC), an accredited inspection agency under ISO/IEC 17020 by ANSI National Accreditation Board (ANAB), and an accredited testing organization under ISO/IEC 17025 by ANAB. APA is also an approved Product Certification Agency, Testing Laboratory, Quality Assurance Entity, Validation Entity, and Product Evaluation Entity by the State of Florida, and an approved testing laboratory by City of Los Angeles.

**APA – THE ENGINEERED WOOD ASSOCIATION
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