

**LP<sup>®</sup> SmartSide<sup>®</sup>**  
**Soffit and Rated Sheathing/Ceiling Deck**  
**Louisiana-Pacific Corporation**

**PR-N117**

Revised June 20, 2024

Product: LP<sup>®</sup> SmartSide<sup>®</sup> Soffit and Rated Sheathing/Ceiling Deck  
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1. Basis of the product report:
  - 2024 International Building Code (IBC): Sections 104.2.3 Alternative materials
  - 2021, 2018, and 2015 International Building Code (IBC): Section 104.11 Alternative materials
  - 2024 International Residential Code (IRC): Sections R104.2.2 Alternative materials
  - 2021, 2018, and 2015 International Residential Code (IRC): Section R104.11 Alternative materials
  - DOC PS 2-18 Performance Standard for Wood Structural Panels
  - APA PRP-108 Performance Standards and Qualification Policy for Wood Structural Panels
  - 2021 and 2015 ANSI/AWC Special Design Provisions for Wind and Seismic (SDPWS) recognized in the 2024 and 2021, 2018 and 2015 IBC, respectively.
  - ASCE 7-22, ASCE 7-16, and ASCE 7-10 Minimum Design Loads for Buildings and Other Structures
  - APA Reports T92Q-17, T92Q-22, T94Q-17, T2000Q-21, T2007P-37, T2015Q-40, and T2015Q-41, and other qualification data
2. Product description:

Louisiana-Pacific Corporation SmartSide<sup>®</sup> Soffit and Rated Sheathing/Ceiling Deck panels are made with strands of various wood species and strand classifications in accordance with the in-plant manufacturing standard approved by APA, overlaid with a resin-treated paper, and available with either a smooth or embossed surface texture. LP SmartSide Soffit and Rated Sheathing/Ceiling Deck panels are available in 3/8, 7/16, and 19/32 Performance Categories. They are available as 4x8-foot or 4x9-foot panels or cut to 12, 16, or 24-inch widths, and in lengths up to 16 feet. The panels are treated with Zinc Borate for fungal decay and termite resistance. The efficacy of the preservative treatment is outside the scope of this report and the APA certification program. The soffit panels are intended for use as closed soffits at a 24 o.c. Span Rating with the panel strength axis perpendicular to supports. The Rated Sheathing/Ceiling Deck panels are intended for use as open soffits at a 24/16 Span Rating with the panel strength axis perpendicular to supports.

Vented soffit products are available in a 3/8 Performance Category, widths of 8, 12, 16, or 24 inches, and 16 feet in length. Refer to the manufacturer's application instructions for details on the configuration of the vented soffits products.
3. Design properties:

Design wind loads for vented and non-vented LP SmartSide Soffit products are listed in Table 1 based on the design procedures in ASCE 7-22.
4. Product installation:

LP SmartSide Soffit and Rated Sheathing/Ceiling Deck shall be installed in accordance with the recommendations provided by the manufacturer (<https://lpcorp.com/resources/product-literature/installation-instructions/lp-smartside-soffit>) and APA *Engineered Wood*

*Construction Guide*, Form E30 ([www.apawood.org/resource-library](http://www.apawood.org/resource-library)). The maximum span shall be in accordance with the Span Rating shown in the trademark for the intended application.

5. Fire-resistant construction:  
Wood structural panels that are not fire-retardant-treated have been shown to meet Class III (or C) category for flame spread. Unless otherwise specified, fire-resistant construction shall be in accordance with the recommendations provided in *APA Fire-Rated Systems*, Form W305 (see link above). Vented soffit products have not been evaluated for fire rating.
6. Limitations:
  - a) LP SmartSide Soffit panels shall be used only as closed soffits at a 24 inches o.c. Span Rating with the panel strength axis perpendicular to supports.
  - b) LP SmartSide Rated Sheathing/Ceiling Deck panels shall be used only for open soffits or sheathing at a 24/16 Span Rating (refer to trademark) with the panel strength axis perpendicular to supports.
  - c) LP SmartSide Soffit must be finished in accordance with recommendations provided by the manufacturer and *APA Engineered Wood Construction Guide*, Form E30 (see links above).
  - d) LP SmartSide Soffit and Rated Sheathing/Ceiling Deck panels are produced at Louisiana-Pacific Corporation facilities in Dawson Creek, BC, Hayward, WI, Houlton, ME, Newberry, MI, Sagola, MI, Swan Valley, MB, Tomahawk, WI, and Two Harbors, MN, under a quality assurance program audited by APA. The efficacy of the preservative treatment is outside the scope of this report and the APA certification program.
  - e) This report is subject to re-examination in one year.
7. Identification:  
LP SmartSide Soffit and Rated Sheathing/Ceiling Deck panels described in this report are identified by a label bearing the manufacturer's name (Louisiana-Pacific Corporation) and/or trademark, the APA assigned plant number (402 for the Dawson Creek, BC plant, 357 for the Hayward, WI plant, 368 for the Houlton, ME plant, 416 for the Newberry, MI plant, 407 for the Sagola, MI plant, 457 for the Swan Valley, MB plant, 435 for the Tomahawk, WI plant, or 399 for the Two Harbors, MN plant), the product Performance Category, the Span Rating, the Exposure Rating, the APA logo, the report number PR-N117, and a means of identifying the date of manufacture.

Table 1. **Maximum  $V_{ult}$  or  $V$**  for vented<sup>(a)</sup> & non-vented LP® SmartSide Soffit<sup>(b)</sup>

Minimum Nail Size <sup>(c)</sup>	Performance Category	Support Spacing <sup>(d)</sup> (in.)	Panel Nail Spacing		Maximum Ultimate Wind Pressure (psf)	Maximum $V_{ult}$ or $V$ <sup>(e)</sup> (mph)			
			Edges (in. o.c.)	Field (in. o.c.)		Wind Exposure Category			
						B	C	D	
6d box (0.099" x 2.0")	3/8	16	6	12	52	140	120	110	
				6	104	200 <sup>(f)</sup>	160	160	
		24	6	12	35	115	NP <sup>(g)</sup>	NP <sup>(g)</sup>	
				6	69	160	140	130	
		8d box (0.113" x 2.5")	16	6	12	77	160	150	130
					6	153	200 <sup>(f)</sup>	200 <sup>(f)</sup>	180
24	6	12	51	140	120	110			
		6	99	200	160	150			
8d box (0.113" x 2.5")	7/16	16	6	12	74	160	140	130	
				6	149	200 <sup>(f)</sup>	200 <sup>(f)</sup>	180	
		24	6	12	50	140	120	110	
				6	99	200 <sup>(f)</sup>	160	150	
		8d box (0.113" x 2.5")	16	6	12	69	160	140	130
					6	137	200 <sup>(f)</sup>	200 <sup>(f)</sup>	180
24	6	12	46	130	115	NP <sup>(g)</sup>			
		6	92	180	160	150			
10d box (0.128" x 3.0")	19/32	16	6	12	96	180	160	150	
				6	193	200 <sup>(f)</sup>	200 <sup>(f)</sup>	200 <sup>(f)</sup>	
		24	6	12	64	160	130	120	
				6	128	200 <sup>(f)</sup>	180	160	

For **SI**: 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 0.447 m/s.

- (a) Available vented area of 5 inches<sup>2</sup> per linear foot of soffit or 10 inches<sup>2</sup> per lineal foot of soffit.
- (b) Panels shall be applied with strength axis across supports.
- (c) Fasteners shall be a hot-dip galvanized (ASTM A153) or equivalent, plain (smooth) shank nails. Fastener dimensions are as specified in ASTM F1667.
- (d) Supporting framing must have a minimum specific gravity of 0.42.
- (e) Wind pressures acting toward and away from building surfaces, at 30-ft height in 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.
- (f) Table R301.2.1(1) of the 2024 and 2021 IRC and Table R301.2(2) of the 2018 and 2015 IRC is limited to a maximum ultimate design wind speed,  $V_{ult}$ , of 180 mph.
- (g) Not permitted.

*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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