Joint Evaluation Report

ESR-1301

Reissued February 2024

Revised December 2025

Subject to renewal February 2026

This report also contains:

- City of LA Supplement

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES **Section: 06 16 00—Sheathing** **DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION** **Section: 07 46 23—Wood Siding**	**REPORT HOLDER:** **LOUISIANA-PACIFIC CORPORATION**	**EVALUATION SUBJECT:** **LP® SMARTSIDE® AND LP® SMARTSIDE® EXPERTFINISH® TREATED-ENGINEERED-WOOD LAP, PANEL, SHAKE LAP, NICKEL GAP LAP AND VERTICAL SIDING**	

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, and 2015 *International Building Code®* (IBC)
- 2024, 2021, 2018, and 2015 *International Residential Code®* (IRC)

Properties evaluated:

- Exterior siding
- Structural

2.0 USES

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, Shake Lap, Nickel Gap Lap, and Vertical Siding are used as exterior wall covering materials on buildings where combustible materials are permitted.

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding may be used as the WSP Bracing Method as specified in 2024 IBC Section 2308.10, 2021, 2018 and 2015 IBC Section 2308.6 and IRC Section R602.10.

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding may be used as sheathing for wood structural panel shear walls having allowable shear loads specified for PS 2-compliant wood-based sheathing in accordance with IBC Section 2306.3.

3.0 DESCRIPTION

3.1 General:

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap and Panel Siding, LP® SmartSide® and LP® SmartSide® ExpertFinish® Shake Lap Siding, Nickel Gap Lap Siding and Vertical Siding are engineered-wood exterior wall covering materials that are suitable for long-term exposure to weather or conditions of similar severity, when fastened to vertical supports or approved nailable wood substrates in

accordance with their span ratings and this evaluation report. The lap siding and panel siding products consist of a mat-formed wood substrate treated with zinc borate preservative in accordance with AWPA Standard T1, and a resin-impregnated overlay material bonded to the face of the lap and panel siding products intended to be exposed to the weather. Additionally, all lap, panel, and vertical siding edges are factory-sealed with a sealer in accordance with the approved quality-control manual.

3.2 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding:

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding are available in widths of 5, 6, 7, 8, 9$^1/_2$ and 12 inches (127, 152, 178, 203, 241 and 305 mm); 3/8 and 7/16 Performance Categories; and lengths up to 16 feet (4877 mm). The 8-inch-wide (203 mm), 7/16 Performance Category lap siding is also available with an optional self-alignment edge.

LP® SmartSide® and LP® SmartSide® ExpertFinish® Shake Lap Siding include shiplap ends, which result in a seamless appearance when installed, and are available in 3/8 Performance Category, nominal width of 12 inches (305 mm), and 4 feet (1219 mm) in length. The Shake Lap Siding must only be installed horizontally.

LP® SmartSide® and LP® SmartSide® ExpertFinish® Nickel Gap Lap Siding include shiplap edges, which result in a flat siding profile when installed, and are available in 1/2 Performance Category, nominal width of 8 inches (203 mm), and 16 feet (4877 mm) in length. The Nickel Gap Lap Siding may be installed horizontally or vertically.

3.3 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding:

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding is 4 feet (1219 mm) wide and available in lengths up to 18 feet (5486 mm). LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding are available in 3/8, 7/16, and 19/32 Performance Categories. The 3/8 Performance Category panel has grooves spaced at 8 inches (203 mm), with a minimum thickness at the grooves of 0.164 inch (4 mm) and a minimum thickness at the shiplap of 0.136 inch (4 mm), or no groove. The 7/16 Performance Category panel has grooves spaced at 4 or 8 inches (102 or 203 mm), with a minimum thickness at the grooves of 0.235 inch (6 mm) and a minimum thickness at the shiplap of 0.150 inch (4 mm) or no groove. The 19/32 Performance Category panel has grooves spaced at 8 inches (203 mm), with a minimum thickness at the groove of 0.311 inch (8 mm) and a minimum shiplap thickness of 0.194 inch (5 mm).

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding are classified as Rated Siding-Sheathing or Rated-Sheathing Ceiling Deck. The classification is noted in the label on the panel. Exterior Rated Siding is intended to be installed in applications in accordance with the 2024 IBC Section 2308.10, 2021, 2018 and 2015 IBC Section 2308.6 and IRC Section R602.10 as an exterior siding suitable for long-term exposure to weather or conditions of similar severity. In addition to the intended application for Rated Siding-Sheathing, Rated-Sheathing Ceiling Deck is intended to be installed in applications in accordance with IBC Section 2306.4.1 and IBC Section 2306.3.

3.4 LP® SmartSide® LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Vertical Siding:

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Vertical Siding is a narrow width siding and is available in 3/8 Performance Category, nominal width of 16 inches (406 mm), and 16 feet (4877 mm) in length. The vertical siding shall only be installed vertically.

4.0 INSTALLATION

4.1 General:

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, Shake Lap, Nickel Gap Lap, and Vertical Siding must be installed in accordance with the manufacturer's published Application Instructions: *LP® SmartSide® - Lap Siding, LP® SmartSide® ExpertFinish® - Lap Joint Siding, LP® SmartSide® - Panel Siding, LP® SmartSide® ExpertFinish® - Panel Siding, LP® SmartSide® - Cedar Shake, LP® SmartSide® Nickel Gap Siding, LP® SmartSide® ExpertFinish® - Nickel Gap Siding, and Technical Note No. 028 LP® SmartSide® and LP® SmartSide® ExpertFinish® 38 Series Vertical Siding for Board & Batten Applications,* and this report. In the event of conflicts, this report governs. A copy of the manufacturer's Application Instructions must be on the job site at all times during installation.

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, Shake Lap, Nickel Gap Lap, and Vertical Siding must be installed with an approved water-resistive barrier as required by the applicable code. Openings in, penetrations through, and terminations of the LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood siding products described in this report are outside the scope of this report and must be specifically approved by the code official in accordance with the applicable code.

Unless otherwise noted in this report, fasteners and fastener spacing must be as noted in the applicable code.

4.2 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding:

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding must be attached to framing members spaced a maximum of 16 inches (406 mm) on center for 3/8 Performance Category siding and a maximum of 24 inches (610 mm) on center for 7/16 Performance Category siding.

Self-aligning LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding is installed with nails placed at the top of the LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding, $^3/_4$ inch (19 mm) down from the upper edge. Each successive course of lap siding must rest on the back rabbet and must self-align at an overlap of 1 inch (25 mm).

Nails must be of sufficient length to penetrate a minimum of $1^1/_2$ inches (38 mm) and 2 inches (51 mm), respectively, for 0.113-inch and 0.092-inch nails, through the sheathing and into framing at each stud location.

LP® SmartSide® or LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding, when installed vertically, must be installed over a minimum 7/16 Performance Category wood structural panel sheathing meeting DOC PS 1 or DOC PS 2 requirements, and must be covered by a batten at the siding joint or must be overlapped with another vertical lap siding in accordance with the application instructions provided by the manufacturer. Lap siding installed vertically can only span one floor plate-to-plate. Each vertical application shall not span beyond one floor to ceiling distance, or one floor to top of gable distance.

LP® SmartSide® and LP® SmartSide® ExpertFinish® Shake Lap are installed identically to LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding.

LP® SmartSide® and LP® SmartSide® ExpertFinish® Nickel Gap Lap are installed similarly to LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap Siding. However, the board includes shiplap edges, which result in a flat siding profile, unlike the other lap sidings. The blind nailing is achieved by placing fasteners in the center of fastener groove in accordance with the manufacturer's application instructions.

4.3 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding:

LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding must be installed with its long dimension oriented vertically.

When LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding is applied directly to the framing, the maximum spacing of the framing must be consistent with the span rating of the LP® SmartSide® Panel Siding, which is identified on the panel's label.

Allowable loads for shearwalls sheathed with LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding—Sheathing are noted in Table 1.

The 4-foot-by-8-foot (1219 mm by 2438 mm) LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding—Sheathing installed vertically, directly to framing, with a single row of nails penetrating both laps, spaced 6 inches (152 mm) on center at panel edges and 12 inches (305 mm) on center at intermediate supports may be used to satisfy the wall bracing requirements for conventional light frame construction specified in the code for prescriptive construction. Install per code requirements for bracing method 3 with wood structural panels or WSP bracing method.

All LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding joints must occur at framing members and must be protected with a continuous wood batt, approved caulking, flashing, or vertical or horizontal shiplap, or otherwise made waterproof.

4.4 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Vertical Siding:

LP® SmartSide® Vertical Siding shall be installed over a minimum 7/16 Performance Category wood structural sheathing meeting DOC PS 1 or DOC PS 2 requirements, and shall be covered by a batten at the panel joint in accordance with the recommendations provided by the manufacturer. Vertical Siding can only span one floor plate-to-plate. Each vertical application shall not span beyond one floor to ceiling distance, or one floor to top of gable distance.

4.5 Component and Cladding Wind Pressure Capacity:

Maximum allowable component and cladding wind loads (wall, zone 5) for LP® SmartSide® Treated-Engineered-Wood Lap and Panel Siding based on a minimum fastener schedule, are provided in Tables 2 through 6. Tables 2 and 3, for lap and panel siding, respectively, are based on $1^1/_2$ inches (38 mm) of penetration for 0.092-inch (2.34 mm) diameter nails and 2 inches (51 mm) of penetration for 0.113-inch (2.87 mm) diameter nails. Design wind loads for LP® SmartSide® Treated-Engineered-Wood Lap Siding when

installed over the facer of structural insulated panels (SIPs) or wood structural panel sheathing are listed in Table 4. Design wind loads for LP® SmartSide® Treated-Engineered-Wood Panel Siding when installed over the facer of structural insulated panels (SIPs) or wood structural panel sheathing are listed in Table 5. Design wind loads for LP® SmartSide Treated-Engineered-Wood Vertical Siding and Lap Siding applied vertically are listed in Table 6.

5.0 CONDITIONS OF USE:

The LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, Shake Lap, Nickel Gap Lap, and Vertical Siding described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap and Vertical Siding must not be used to satisfy the bracing requirements specified in the code.

5.2 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Panel Siding—Sheathing, when installed as set forth in this report, may be used as the WSP Bracing Method as specified in 2024 IBC Section 2308.10, 2021, 2018 and 2015 IBC Section 2308.6 and IRC Section R602.10.

5.3 In areas where seismic analysis is required by the applicable code, the applicable code requirements for wood structural panel shear walls must be consulted for additional detailing requirements, restrictions concerning certain usages, required modifications to the allowable shear loads tabulated in this report, and additional inspection requirements.

5.4 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, and Vertical Siding must not be installed in contact with concrete or masonry.

5.5 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, and Vertical Siding must be installed with a minimum 6 inches (152 mm) of clearance from finished grade.

5.6 When field cuts are made to LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, and Vertical Siding, all exposed surfaces must be finished according to the paint or caulk/sealant manufacturers' specifications.

5.7 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, and Vertical Siding are manufactured by Louisiana-Pacific Corporation in Dawson Creek, British Columbia (Mill No. 402); Hayward, Wisconsin (Mill No. 357); Houlton, Maine (Mill No. 368); Newberry, Michigan (Mill No. 416); Sagola, Michigan (Mill No. 407); Swan Valley, Minitonas, Manitoba, Canada (Mill No. 457); Tomahawk, Wisconsin (Mill No. 435); and Two Harbors, Minnesota (Mill No. 399); under a quality control program with inspections by APA – The Engineered Wood Association and ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Treated-engineered-wood Siding (AC321), dated April 2019 (Editorially revised February 2025).

7.0 IDENTIFICATION

7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-1301) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.

7.2 In addition, LP® SmartSide® Strand Substrate Lap, Panel, and Vertical Siding must be labeled with the product designation and the name of Louisiana-Pacific Corp. The label must provide the following information:

1. Mill number.
2. The evaluation report number (ESR-1301).
3. Grade/exposure classification.
4. Span rating.
5. Performance category (based on customary inch fractions).

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

LOUISIANA-PACIFIC CORPORATION
1610 West End Ave, Suite 200
NASHVILLE, TENNESSEE 37203
(888) 820-0325
www.LPcorp.com

TABLE 1—ALLOWABLE RACKING SHEAR (plf) FOR LP® SMARTSIDE® AND LP® SMARTSIDE® EXPERTFINISH® TREATED-WOOD PANEL SIDING—SHEATHING SHEAR WALLS WITH FRAMING OF DOUGLAS FIR–LARCH OR SOUTHERN PINE FOR WIND OR SEISMIC LOADING[1,2,3,7,8]

PERFORMANCE CATEGORY	MINIMUM NAIL PENETRATION IN FRAMING (inches)	PANELS APPLIED DIRECTLY TO FRAMING					PANELS APPLIED OVER 5/8-INCH GYPSUM SHEATHING				
		Nail Size (Common or Galvanized Box)[7,8]	Nail Spacing at Panel Edges (inches)				Nail Size (Common or Galvanized Box)[7,8]	Nail Spacing at Panel Edges (inches)			
			6	4	3	2[4]		6	4	3	2[4]
5/16[5,6]	1 1/4	6d	180	270	350	450	8d	180	270	350	450
3/8[5,6]			200	300	390	510		200	300	390	510
3/8[5,6]	1 1/2	8d	220	320	410	530	10d	260	380	490[4]	640
7/16[5]			240	350	450	585		260	380	490[4]	640
19/32[5]	1 5/8	10d	340	510	665[4]	870	--	--	--	--	--

For **SI:** 1 inch = 25.4 mm, 1 plf = 14.6 N/m.

[1]For framing of other species: (a) Find specific gravity for species of lumber in AF & PA National Design Specification; (b) find shear value from table for nails size; c) multiply value by 0.82 for species with specific gravity greater than or equal to 0.42 but less than 0.49, or 0.65 for species with specific gravity less than 0.42.

[2]All panel edges must be backed with 2-inch nominal or wider framing. Panels must be installed with the long dimension oriented in the vertical direction. Space nails 6 inches o.c. along intermediate framing members for 3/8 and 7/16 Performance Categories panels installed on studs spaced 24 inches o.c. For other conditions and panel thicknesses, space nails 12 inches o.c. on intermediate supports.

[3]The values are for short-term loads due to earthquake and must be reduced by 25 percent for normal duration of loading. For wind load applications, the values in the table shall be permitted to be multiplied by 1.4.

[4]Framing at panel edges must be 3 inches nominal or wider and nails must be staggered where nails are spaced 2 inches o.c., and where 10d nails having penetration into framing of more than 1 5/8 inches are spaced 3 inches, or less, o.c. **Exception:** Unless otherwise required, 2-inch nominal framing may be used where full nailing surface is available and nails are staggered.

[5]Except as noted in Footnote 7, panel thickness at point of nailing at panel edges determines applicable shear values, except that 3/8 Performance Category panels nailed at shiplap edges use shear values for 5/16 Performance Category panels, and 7/16 and 19/32 Performance Categories panel sidings nailed at shiplap edges use shear values for 3/8 Performance Category panels.

[6]Shiplap edges must be double-nailed; one nail must be placed in the underlap and the second nail must be placed 1 inch from the panel edge, not in the overlap, at the nail spacing specified for the applicable shear value.

[7]Fasteners must not be installed in panel siding grooves in the field of the panel siding or when the panel siding grooves occur at cut edges of the panel siding.

[8]Fasteners shall be carbon steel, hot-dipped galvanized plain (smooth) shank box or common nails and meet dimensions as specified in ASTM F1667.

TABLE 2A—LAP SIDING INSTALLED HORIZONTALLY WITH 0.113-INCH-DIAMETER NAILS MAXIMUM ULTIMATE COMPONENT AND CLADDING DESIGN WIND SPEED, V_{ult}[1,2]

PERFORMANCE CATEGORY	MAXIMUM WALL STUD SPACING[3] (inches)	SIDING WIDTH (inches)	MAXIMUM ULTIMATE WIND PRESSURE (psf)	MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult}[4] (mph)		
				Wind Exposure Category		
				B	C	D
3/8 and 7/16	16	5, 6, 7	133	200[5]	180	180
		8	122	200[5]	180	170
		9 1/2	101	200[5]	170	150
		12	78	170	150	130
7/16	24	6	114	200[5]	180	160
		7	95	180	160	150
		8	81	180	150	140
		9 1/2	67	160	140	120
		12	52	140	120	110
1/2 Nickel Gap	16	8	107	200[5]	170	160
	24		71	170	140	130

For **SI:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 1.6 kph.

[1]For 3/8 and 7/16 Performance Categories, one fastener per stud located 3/4 inch from the top edge of the siding. Each successive course of lap siding must overlap a minimum of 1 inch. For Nickel Gap Lap, one fastener for each stud located in center of fastener groove in accordance with the manufacturer's application instructions. Fasteners must be hot dip galvanized plain (smooth) shank nails, with a minimum shank diameter of 0.113 inch, and long enough to penetrate structural framing or wood structural panels and structural framing a minimum of 2 inches. Lap siding is not a bracing material.

[2]Tabulated values assume nails penetrate a minimum of 2 inches into the studs.

[3]Wall studs must have a minimum specific gravity of 0.42.

[4]Three-second-gust; based on wind pressures acting toward and away from building surfaces, at 30-feet height in Zone 5 with smallest effective area per Chapter 26 of ASCE 7-22, ASCE 7-16 and ASCE 7-10, IRC Section R301.2.1, and IBC Section 1609.1.1.

[5]2024 and 2021 IRC Table R301.2.1(1) and 2018 and 2015 IRC Table R301.2(2) are limited to a maximum ultimate design wind speed, V_{ult}, of 180 mph.

TABLE 2B—LAP SIDING INSTALLED HORIZONTALLY WITH 0.092-INCH-DIAMETER NAILS MAXIMUM ULTIMATE COMPONENT AND CLADDING DESIGN WIND SPEED, V_{ult}[1,2]

PERFORMANCE CATEGORY	MAXIMUM WALL STUD SPACING[3] (inches)	SIDING WIDTH (inches)	MAXIMUM ULTIMATE WIND PRESSURE (psf)	MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult}[4] (mph)		
				Wind Exposure Category		
				B	C	D
3/8 and 7/16	16	5	131	200[5]	180	180
		6	105	200[5]	170	160
		7	87	180	160	140
		8	75	170	140	130
		$9^1/_2$	61	150	130	120
		12	48	140	115	--
7/16	24	6	70	170	140	130
		7	58	150	130	120
		8	50	140	120	110
		$9^1/_2$	41	130	110	--
		12	32	110	--	--
1/2 Nickel Gap Lap	16	8	65	160	130	120
	24		44	130	110	—

For **SI:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 1.6 kph.

[1]For 3/8 and 7/16 Performance Categories lap siding, one fastener per stud located $^3/_4$ inch from the top edge of the siding. Each successive course of lap siding must overlap a minimum of 1 inch. For Nickel Gap Lap, one fastener for each stud located in center of fastener groove in accordance with the manufacturer's application instructions. Fasteners must be hot dip galvanized plain (smooth) shank nails, with a minimum shank diameter of 0.092 inch, and long enough to penetrate structural framing or wood structural panels and structural framing a minimum of $1^1/_2$ inches. Lap siding is not a bracing material.

[2]Tabulated values assume nails penetrate a minimum of $1^1/_2$ inches into the studs.

[3]Wall studs must have a minimum specific gravity of 0.42.

[4]Three-second-gust; based on wind pressures acting toward and away from building surfaces, at 30-feet height in Zone 5 with smallest effective area per Chapter 26 of ASCE 7-22, ASCE 7-16 and ASCE 7-10, IRC Section R301.2.1, and IBC Section 1609.1.1.

[5]2024 and 2021 Table R301.2.1(1) and 2018 and 2015 Table R301.2(2) are limited to a maximum ultimate design wind speed, V_{ult}, of 180 mph.

TABLE 3A—PANEL SIDING INSTALLED VERTICALLY WITH 0.113-INCH NAILS MAXIMUM ULTIMATE COMPONENT AND CLADDING DESIGN WIND SPEED, V_{ult}[1]

PERFORMANCE CATEGORY	MAXIMUM WALL STUD SPACING[2] (inches)	FASTENER SPACING (inches o.c.)		MAXIMUM ULTIMATE WIND PRESSURE (psf)	MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult}[3] (mph)		
		Edges	Field		Wind Exposure Category		
					B	C	D
3/8, 7/16 and 19/32	16	6	12	71	170	140	130
			6	133	200[4]	180	180
19/32	24	6	12	48	140	115	--
			6	95	180	160	150

For **SI:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 1.6 kph.

[1]Fasteners shall be hot dipgalvanized plain (smooth) shank nails, with a minimum shank diameter of 0.113 inch, and long enough to penetrate structural framing or wood structural panels and structural framing a minimum of 2 inches for the tabulated values.

[2]Wall studs must have a minimum specific gravity of 0.42.

[3]Three-second-gust; based on wind pressures acting toward and away from building surfaces, at 30-feet height in Zone 5 with smallest effective area per Chapter 26 of ASCE 7-22, ASCE 7-16 and ASCE 7-10, and IRC Section R301.2.1 and IBC Section 1609.1.1.

[4]2024 and 2021Table R301.2.1(1) and 2018 and 2015 Table R301.2(2) are limited to a maximum ultimate design wind speed, V_{ult}, of 180 mph.

TABLE 3B—PANEL SIDING INSTALLED VERTICALLY WITH 0.092-INCH NAILS MAXIMUM ULTIMATE COMPONENT AND CLADDING DESIGN WIND SPEED, V_{ult}[1]

PERFORMANCE CATEGORY	MAXIMUM WALL STUD SPACING[2] (inches)	FASTENER SPACING[3] (inches o.c.)		MAXIMUM ULTIMATE WIND PRESSURE (psf)	MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult}[4] (mph)		
					Wind Exposure Category		
		Edges	Field		B	C	D
3/8, 7/16 and 19/32	16	6	12	44	130	110	--
			6	87	180	160	140
19/32	24	6	6	58	150	130	120

For **SI:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 1.6 kph.

[1]Tabulated values assume nails penetrate a minimum of $1^1/_2$ inches into the studs.
[2]Wall studs must have a minimum specific gravity of 0.42.
[3]Fasteners shall be hot dip galvanized plain (smooth) shank nails, with a minimum shank diameter of 0.092 inch, and long enough to penetrate structural framing or wood structural panels and structural framing a minimum of $1^1/_2$ inches. Configuration cannot be used for lateral bracing due to nail size.
[4]Three-second-gust; based on wind pressures acting toward and away from building surfaces, at 30-feet height in Zone 5 with smallest effective area per Chapter 26 of ASCE 7-22, ASCE 7-16 and ASCE 7-10, and IRC Section R301.2.1 and IBC Section 1609.1.1.

TABLE 4—LAP SIDING INSTALLED HORIZONTALLY TO SIPS OR WOOD STRUCTURAL PANEL SHEATHING MAXIMUM ULTIMATE COMPONENT AND CLADDING DESIGN WIND SPEED, V_{ult}[1,2]

PERFORMANCE CATEGORY	MAXIMUM RING SHANK NAIL SPACING[3] (inches)	SIDING WIDTH (inches)	MAXIMUM ULTIMATE WIND PRESSURE (psf)	MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult}[4] (mph)		
				Wind Exposure Category		
				B	C	D
3/8 and 7/16	8	5	133	200[5]	180	180
		6	133	200[5]	180	180
		7	133	200[5]	180	180
		8	133	200[5]	180	180
		$9^1/_2$	128	200[5]	180	170
		12	99	200[5]	170	150
	12	5	133	200[5]	180	180
		6	133	200[5]	180	180
		7	121	200[5]	180	170
		8	104	200[5]	170	160
		$9^1/_2$	86	180	150	140
		12	66	160	140	120
1/2 Nickel Gap	8	8	133	200[5]	180	180
	12		91	180	160	150
	16		68	160	140	130
	24		45	130	115	--

For **SI:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 1.6 kph.

[1]The facer of the structural insulated panels (SIPs) shall be 7/16 Performance Category or thicker OSB sheathing meeting DOC PS 2 requirements. Wood structural panel (WSP) sheathing shall be minimum 7/16 Performance Category OSB or Group 1 plywood meeting DOC PS 1 or DOC PS 2 requirements.
[2]The tabulated values represent the capacity of the LP Lap Siding installed in accordance with the requirements of this table. The tabulated wind speed shall not exceed the SIP capacity for wind load resistance.
[3]For 3/8 and 7/16 Performance Categories lap siding, one ring shank fastener located $^3/_4$ inch from the top edge of the siding. Each successive course of lap siding must overlap a minimum of 1 inch. For Nickel Gap Lap, one fastener for each stud located in center of fastener groove in accordance with the manufacturer's application instructions. Fasteners must be a hot dip galvanized ring shank nails, with a minimum shank diameter of 0.092 inch. The length shall be long enough to fully penetrate wood structural facer panel.
[4]Three-second-gust; based on wind pressures acting toward and away from building surfaces, at 30-ft height in Zone 5 with smallest effective area in accordance with Chapter 26 of ASCE 7-22, ASCE 7-16 and ASCE 7-10, IRC Section R301.2.1, and IBC Section 1609.1.1.
[5]2024 and 2021 Table R301.2.1(1) and 2018 and 2015 Table R301.2(2) are limited to a maximum ultimate design wind speed, V_{ult}, of 180 mph.

TABLE 5—PANEL SIDING INSTALLED VERTICALLY TO SIPS OR WOOD STRUCTURAL PANEL Sheathing MAXIMUM ULTIMATE COMPONENT AND CLADDING DESIGN WIND SPEED, V_{ult}[1,2]

PERFORMANCE CATEGORY	MAXIMUM RING SHANK NAIL SPACING[3] (inches)		MAXIMUM ULTIMATE WIND PRESSURE (psf)	MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult}[4] (mph)		
				Wind Exposure Category		
	Vertical	Horizontal		B	C	D
3/8, 7/16 and 19/32	8	8	133	200[5]	180	180
	10	10	87	180	160	140
	12	12	61	150	130	120
	16	16	34	115	--	--

For **SI:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 1.6 kph.

[1]The facer of the structural insulated panels (SIPs) shall be 7/16 Performance Category or thicker OSB sheathing meeting DOC PS 2 requirements. Wood structural panel (WSP) sheathing shall be minimum Performance Category 7/16 OSB or Group 1 plywood meeting DOC PS 1 or DOC PS 2 requirements.

[2]The tabulated values represent the capacity of the LP Panel Siding installed in accordance with the requirements of this table. The tabulated wind speed shall not exceed the SIP capacity for wind load resistance.

[3]One ring shank fastener located $^3/_4$ inch from the top edge of the siding. Each successive course of lap siding must overlap a minimum of 1 inch. Fasteners must be a hot dip galvanized ring shank nails, with a minimum shank diameter of 0.092 inch. The length shall be long enough to fully penetrate wood structural facer panel. Ring shank nails fastened in a grid as specified.

[4]Three-second-gust; based on wind pressures acting toward and away from building surfaces, at 30-ft height in Zone 5 with smallest effective area in accordance with Chapter 26 of ASCE 7-22, ASCE 7-10, and ASCE 7-10, IRC Section R301.2.1, and IBC Section 1609.1.1.

[5]2024 and 2021 IRC Table R301.2.1(1) and 2018 and 2015 IRC Table R301.2(2) are limited to a maximum ultimate design wind speed, V_{ult}, of 180 mph.

TABLE 6—VERTICAL SIDING OR LAP SIDING INSTALLED VERTICALLY MAXIMUM ULTIMATE COMPONENT AND CLADDING DESIGN WIND SPEED, V_{ult}[1,2]

PERFORMANCE CATEGORY	SIDING TYPE	SIDING WIDTH (inches)	FASTENER EDGE SPACING (inches o.c.)	MAXIMUM ALLOWABLE WIND PRESSURE (psf)	MAXIMUM NOMINAL (ALLOWABLE) WIND SPEED, V_{asd}[6] (mph)		
					Wind Exposure Category		
					B	C	D
3/8 and 7/16	Vertical Siding	16[2]	6[4]	133	200[7]	180	180
			12[4]	91	180	160	150
			16[4]	68	160	140	130
	Lap Siding Installed Vertically	5[3]	12[5]	133	200[7]	180	180
		6[3]		121	200[7]	180	170
		7[3]		104	200[7]	170	160
		8[3]		91	180	160	150
		$9^1/_2$[3]		77	170	150	130
		12[3]		61	150	130	120
1/2 Nickel Gap	Lap Siding Installed Vertically	8[3]	8	133	200[7]	180	180
			12	91	180	160	150
			16	68	160	140	130
			24	45	130	115	-

For **SI:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 1.6 kph.

[1]Siding shall be installed over 7/16 Performance Category or thicker wood structural panel sheathing meeting DOC PS 1 or DOC PS 2 requirements.

[2]Vertical Siding installed in accordance with manufacturer's application instructions.

[3]Lap Siding installed vertically in accordance with manufacturer's application instructions.

[4]Fasteners must be hot dip galvanized ring shank nails with a minimum shank diameter of 0.092 inch. Length shall be long enough to fully penetrate wood structural panel wall sheathing. Fasteners must be spaced a maximum of 6 inches on center along the siding perimeter in accordance with the manufacturer's application instructions.

[5]Fasteners must be hot dip galvanized ring shank nails with a minimum shank diameter of 0.092 inch. Length shall be long enough to fully penetrate wood structural panel wall sheathing. Fasteners must be spaced at a maximum of 12 inches on center along alternating edges of the length of the trim/batten in accordance with manufacturer's application instructions.

[6]Three-second-gust; based on wind pressures acting toward and away from building surfaces, at 30-feet height in Zone 5 with smallest effective area per Chapter 26 of ASCE 7-22, ASCE 7-16 and ASCE 7-10, IRC Section R301.2.1 and IBC Section 1609.1.1.

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ICC-ES Evaluation Report

ESR-1301 City of LA Supplement

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 16 00—Sheathing

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 23—Wood Siding

REPORT HOLDER:

LOUISIANA-PACIFIC CORPORATION

EVALUATION SUBJECT:

LP® SMARTSIDE® AND LP SMARTSIDE® EXPERTFINISH® TREATED-ENGINEERED-WOOD LAP, PANEL, SHAKE LAP, NICKEL GAP LAP, AND VERTICAL SIDING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, Shake Lap, Nickel Gap Lap, and Vertical Siding, described in ICC-ES evaluation report ESR-1301, have 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 LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, Shake Lap, Nickel Gap Lap and Vertical Siding, described in Sections 2.0 through 7.0 of the evaluation report ESR-1301, comply with the LABC Chapters 14 and 23, and the LARC, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, Shake Lap, Nickel Gap Lap and Vertical Siding described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-1301.
- The design, installation, conditions of use and identification are in accordance with the 2021 *International Building Code®* (IBC) and 2021 *International Residential Code* (IRC) provisions noted in the evaluation report ESR-1301.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- Panels must be used only in locations were combustible materials are permitted in the LABC.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.
- The LP® SmartSide® and LP® SmartSide® ExpertFinish® Treated-Engineered-Wood Lap, Panel, Shake Lap, Nickel Gap Lap, and Vertical Siding have not been evaluated under the LABC Chapter 7A or the LARC Section R337 for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas of any Wildland – Urban Interface Area.

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