

DO KIM & ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERS

Florida Board of Engineers Certificate of Authorization No. 26887

Product Evaluation Report

Date: December 16, 2023

Florida Product Approval: **#FL 9103-R8**

Product Category: Panel Walls

Product sub-category: Soffits

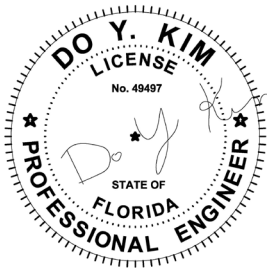
Product Name: LP® SmartSide® Soffit and Rated Sheathing/Ceiling Deck

Manufacturer: LP Building Products
1610 West End Ave, Suite 200
Nashville, TN 37203
(888) 820-0325

Scope:

This product evaluation report issued by Do Kim & Associates, LLC and Do Kim, P.E. for LP Building Solutions is based on Florida Department of Business and Professional Regulation Rule 61G20-3 Method (2) (b) of the State of Florida Product Approval. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or updates.

Do Kim & Associates, LLC and Do Kim, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein. This product has been evaluated for use in locations adhering to the Florida Building Code 8th Edition (FBC).



Do Kim, P.E.
FL #49497

Supporting Documents

1. Drawings:
 - a. Application Instructions, LP® SmartSide® Soffit.
 - b. APA-The Engineered Wood Association Product Report PR-N117, Revised June 20, 2023.

2. Reference Test Reports:
 - a. Approved test lab: Architectural Testing, Inc., 130 Derry Court, York, PA 17406. Test reports referenced:
 - i. Report No. 79279.01-122-18 (01/07/08)
 1. Testing per Miami-Dade County Checklist #0475 For the Approval of: Durability of Wood-base Structural Composite Lumber and Panels
 2. ASTM D4761-02 Standard Test Methods for Mechanical Properties of Lumber and Wood-Based Structural Material
 3. ASTM D1716-06 Standard Test Methods for Mechanical Fasteners in Wood
 - ii. Report No. 78294.01-401-18 (12/03/07)
 1. TAS 202-94, Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure Loading
 2. TAS 203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading

3. Calculations
 - a. Standards referenced:
 - i. ASCE 7-22, Chapter 30, Wind Loads: Components and Cladding.
 1. Calculations are based on Enclosed Building condition and assumed design parameters in PR-N117. Design wind speed and exposure information in the PR-N117 tables are consistent with calculations of ASCE 7-22.
 - ii. ICC Evaluation Service, Inc. Acceptance Criteria for Treated-Engineered-Wood Siding, AC321 (Editorially Revised April 2021).

4. LP® SmartSide® Model Product Names
 - a. LP® SmartSide® Soffit is a primed soffit product.
 - b. LP® SmartSide® ExpertFinish® is a prefinished soffit product.
 - c. Both primed and prefinished soffits are available vented or non-vented.

5. Application Instructions
 - a. Models:
 - i. Installation fastening requirements as outlined in the APA PR-N117 document has been reviewed and evaluated by Do Kim, P.E. based on comparative and/or rational analysis and has been determined to be in accordance to accepted engineering practice. Installation allowable loads per APA PR-N117 document shall be the minimum allowable design pressures as determined in accordance to the FBC 8th Edition (FBC).

DO KIM & ASSOCIATES, LLC
CONSULTING STRUCTURAL ENGINEERS

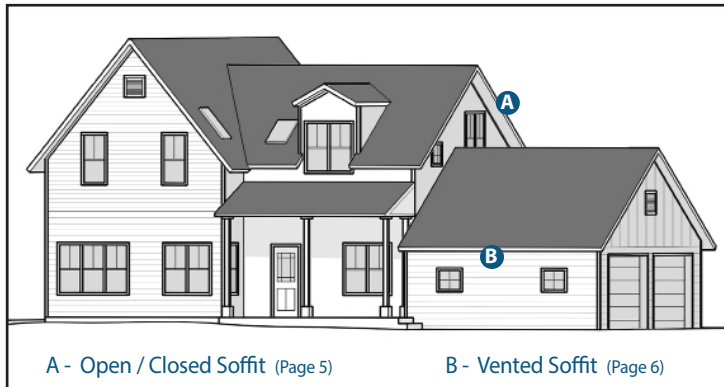
6. Applicable FBC Sections
 - a. Chapter 14 Exterior Walls
 - i. Section 1404.1 General
 - ii. Section 1405.2 Weather Protection
 - iii. Section 1405.5 Wood Veneers
 - iv. Section 1405.17 Fastening
 - b. Chapter 16 Structural Design
 - i. Section 1604.3.1 Deflections
 - ii. Section 1609.1 Applications
 - iii. Section 1616.3.1 HVHZ Allowable Deflections
 - c. Chapter 23 Wood
 - i. Section 2304.6 Exterior Wall Sheathing
 - ii. Section 2304.6.1 Wood Structural Panel Sheathing
 - iii. Section 2315.1.11
7. Other
 - a. Quality Assurance of LP® SmartSide® Soffit by APA - The Engineered Wood Association (FBC Organization #QUA2521) that manufacturer is within a quality assurance program for this product under Rule 61G20-3.

Limitations and Condition of Use

1. This product has been designed and tested in accordance to the Florida Building Code 8th Edition (FBC). Models are inclusive of the HVHZ.
2. No missile impact resistance has not been tested.
3. Each product listed above shall be installed in strict compliance with its respective Product Evaluation Document along with all components noted herein.
4. Application instructions in PR-N117 are based on enclosed building condition for wind design pressure.
5. Use of each product shall be in strict accordance with its Product Approval Evaluation Documents.
6. Fire-resistant construction: Wood structural panels that are not fire-treated have been shown to meet a Class III (or C) category for flame spread. Where otherwise specified, fire-resistant construction shall be in accordance with the recommendations in APA Product Guide: Fire-Rated Systems, Form W305.
7. Deflection limits and allowable spans per Product Approval Evaluation Documents are in accordance to L/120 in non-HVHZ per Chapter 16 Table 1604.3 deflection limits. Deflection limits and allowable spans per Product Approval Evaluation Documents are in accordance to L/180 in HVHZ per Chapter 16 Section 1616.3.1 deflection limits.
8. All supporting host structures shall be designed to resist all superimposed loads.
9. All components which are permanently installed shall be protected against corrosion, contamination, and other such damage.

LP SmartSide Soffit

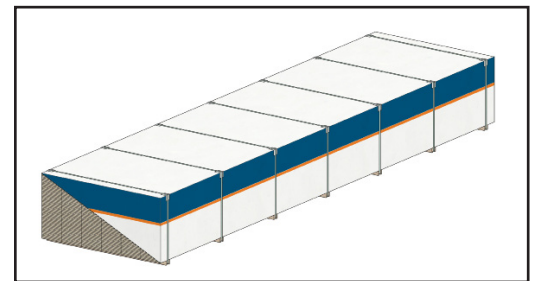
Application Instructions
Vented and Non-Vented
Smooth Finish or Cedar Texture



ON SITE STORAGE

- Store off the ground well supported, on a flat well-drained surface. Store products under a roof or separate waterproof covering. (See diagram 1a)
- Additional support may be required to achieve a safe clearance from the ground.
- When the waterproof covering is removed, cut all unit banding.
- Keep soffit clean and dry. Inspect prior to installation.

1a



PREPARATION

General Information

- LP SmartSide strand substrate soffit has achieved code recognition by APA in accordance with PR-N117 as Rated Sheathing/Ceiling Deck. Product Report is available at www.lpcorp.com.
- LP's application instructions describe the minimum requirements needed to assure LP SmartSide limited warranty coverage.
- Failure to follow the LP application instructions could result in reduced product service life and may lead to denial of coverage under the LP SmartSide limited warranty.

PREPARATION

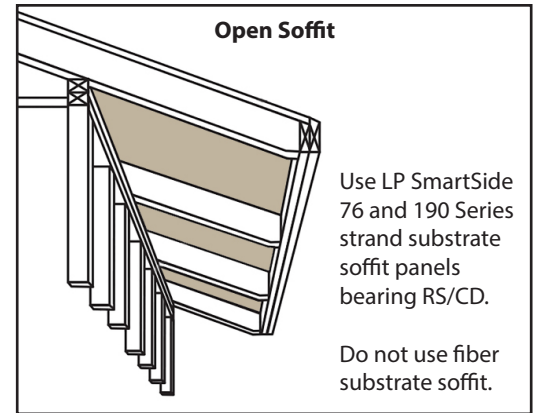
Before You Begin

- All exposed wood substrate must be sealed in a manner that prevents moisture intrusion and water build up. To achieve this, use primer, paint, sealant and flashings as follows in these application instructions.
- Attach soffit products only to framing members which have been kiln dried or air-seasoned to a moisture content of 19% or lower.
- Do not install soffit over crooked framing materials.
- LP SmartSide Soffit products are not designed for and are not suitable for use as siding or trim.
Exception: 8 ft. long and 9 ft. long fiber substrate soffit panels. Reference the stamp rating on the back of the panel.
- **Soffits must not be in direct contact with masonry, concrete, brick, stone, stucco or mortar.** Backer rod is recommended to properly space materials at these location.
- **Do not use staples**

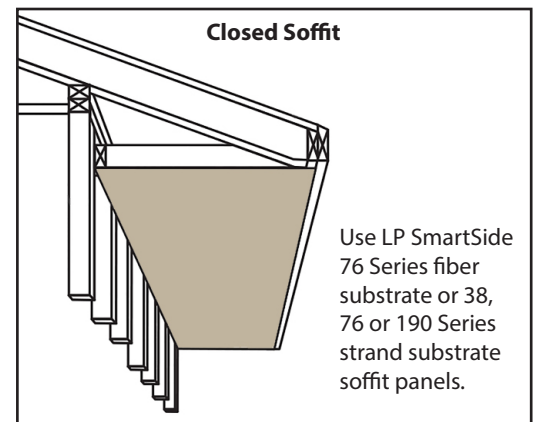
Limitations

- 76 and 190 Series 4 ft. wide strand soffit carries a structural sheathing trademark in addition to its trademark for soffit applications. [Diagram 2a](#) shows a structural decking application with a 76 or 190 series Soffit/RSCD panel installed with the high appearance value, primed surface facing towards the open framing. Installation shall conform to roof sheathing installation requirements per the local code. This panel must bear a Rated Sheathing/Ceiling Deck trademark with span rating. Use within the limitations of the span rating.
- 38 Series strand and 76 Series fiber soffit panels do not bear Rated Sheathing/Ceiling Deck trademarks and are not acceptable for structural deck applications. They are designed for use in applications seen in [diagrams 2b and 2c](#).
- Factory manufactured Cut-To-Width soffit is approved for use in closed soffit applications only. ([See diagrams 2b and 2c](#))
- Field prepared Cut-To-Width soffit should comply with local building codes.
- If soffit panels need to be field-cut to width, cut them 3/8 inch less than full width so you can leave a 3/16 inch space on each side.
- Space all end and edge joints 3/16 inch and apply sealant.

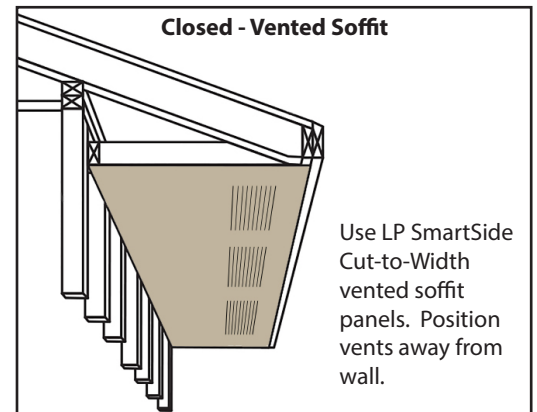
2a



2b



2c



PREPARATION

General Application Equipment

LP SmartSide CTW, Vented CTW and Soffit Panels (Long Dimension Across Supports)		
Maximum Span (inches) All Edges Supported	Product Category	Minimum Nail Size and Type
24	38 Series Strand Substrate	6d (0.099") hot-dipped galvanized or equal
24	76 Series Strand & Fiber Substrate	8d (0.113") hot-dipped galvanized or equal
24	190 Series Strand Substrate	8d (0.113") hot-dipped galvanized or equal

CONDITION		CORRECTION	
Snug		OK	
Flush		OK	
Visible Fiber		Paint	
Countersunk 1/16 - 1/8 inch		Apply Sealant	
Countersunk more than 1/8 inch		Apply Sealant and re-nail	

Table 3a

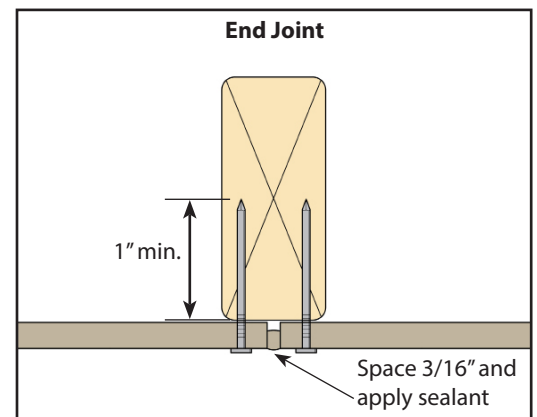
- **Fasteners:** 6d (0.099") or 8d (0.113") non-staining, hot-dipped galvanized (ASTM A-153) or equal. Apply and correct overdriven nails as shown in Table 3a.
- **Sealant:** Use an exterior-quality, non-hardening, paintable sealant. Use Class 25 or higher exterior sealant meeting the ASTM C920 Standard for Specification for Elastomeric Joint Sealants. Follow the sealant manufacturer's instructions for application.
- **Paint:** Exterior-quality 100% acrylic latex paint, specially formulated for use on wood and engineered wood substrates, is highly recommended. Semi-gloss or satin finish oil or alkyd paints are acceptable. For flat alkyd paint, please check with the coating manufacturer for their recommendations for use on composite wood siding.

INSTALLATION

Standard Fastening Instructions

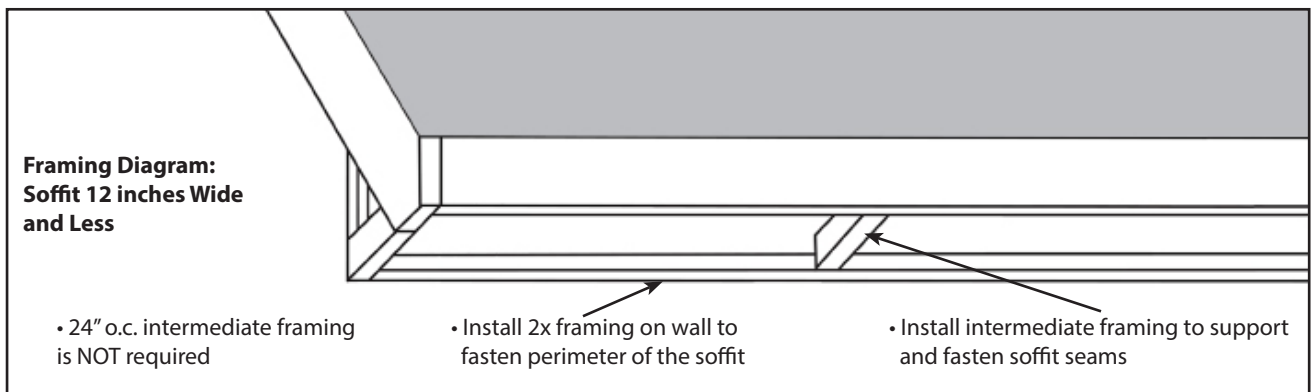
- **Framing:** A maximum of 24 inch o.c. intermediate support is required for soffit greater than 12 inches wide. 24 inch o.c. intermediate support is NOT required for soffit 12 inches wide and under. (See diagrams 4a and 4c)
- Framing shall be of sufficient size and quality to securely attach the soffit. Installer is responsible for ensuring all framing meets local building code requirements.
- All panel ends and edges must be supported or backed by solid support. Additional blocking may need to be installed. Complete perimeter framing support is required for all soffit.
- Panels must be installed perpendicular to framing supports, except in open soffit applications over gabled eaves.
- **Fastener length:** Long enough to fully penetrate framing support a minimum of 1 inch. (See diagram 3b)
- **Fastener placement:** 3/8 inch from ends and edges.
- **Fastener spacing:** Space nails a maximum of every 6 inches o.c. at panel edges and a maximum of every 12 inches o.c. along intermediate supports. (See diagrams 4b and 4d)
- For information on fastening LP SmartSide soffits in high wind areas, refer to APA Product Report PR-N117 found at www.lpcorp.com.

3b

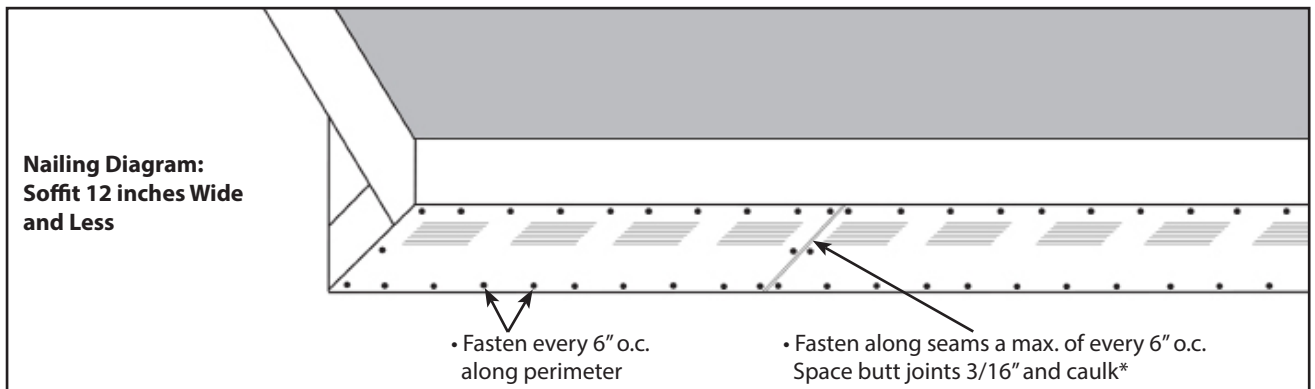


INSTALLATION

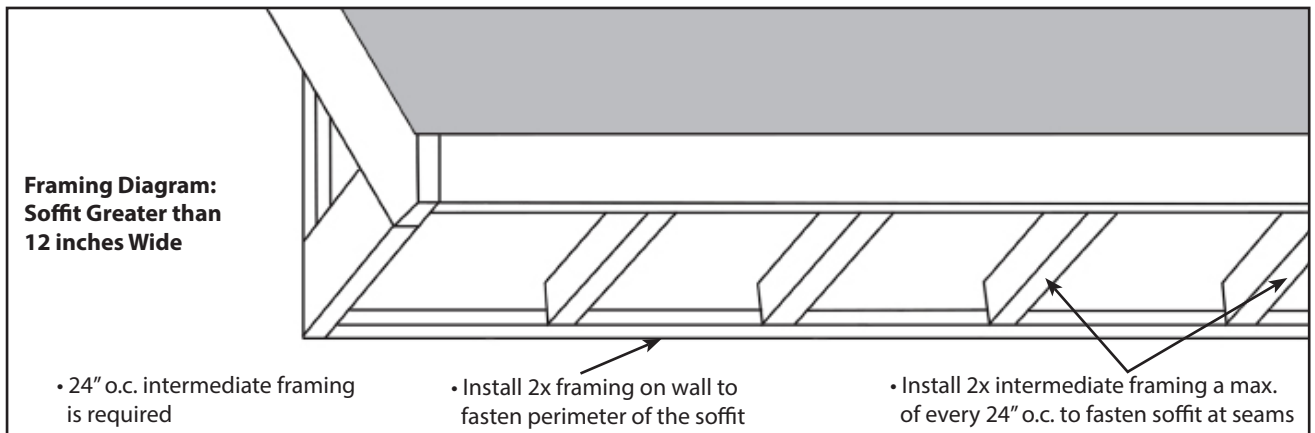
4a



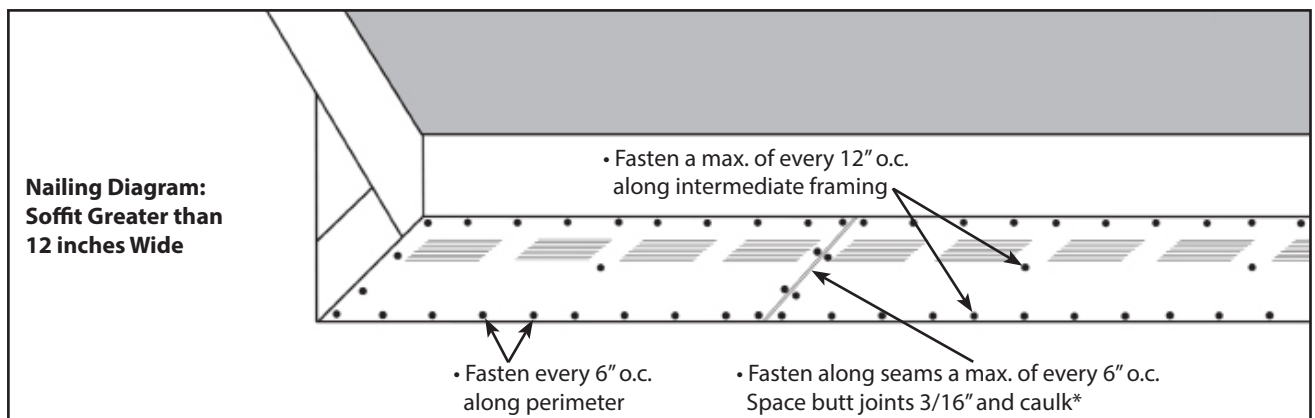
4b



4c



4d

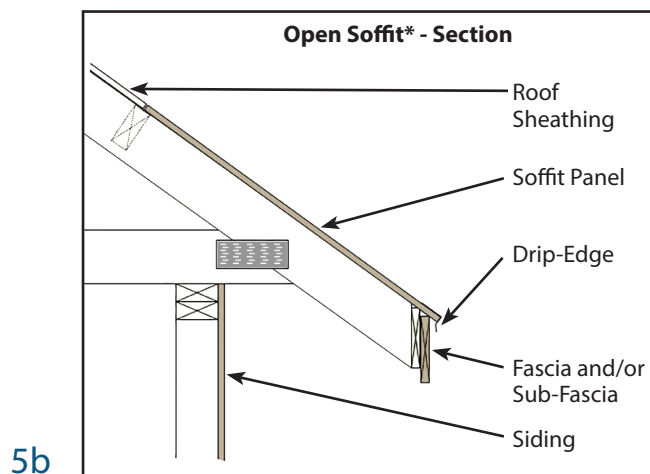
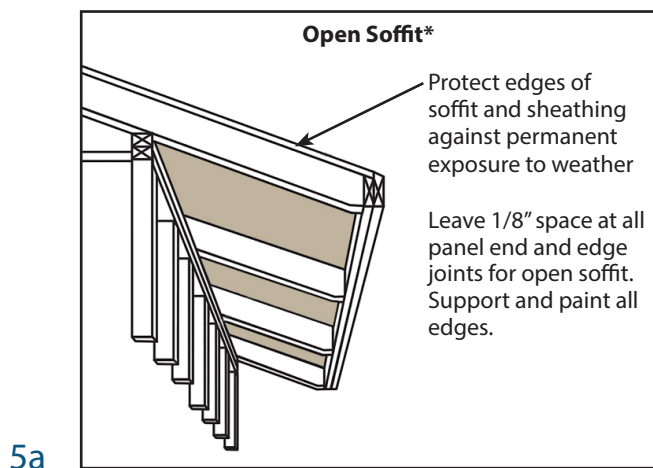


*If joint moulding option is selected, add the thickness of the web to the gap allowing a net 3/16" space for expansion.

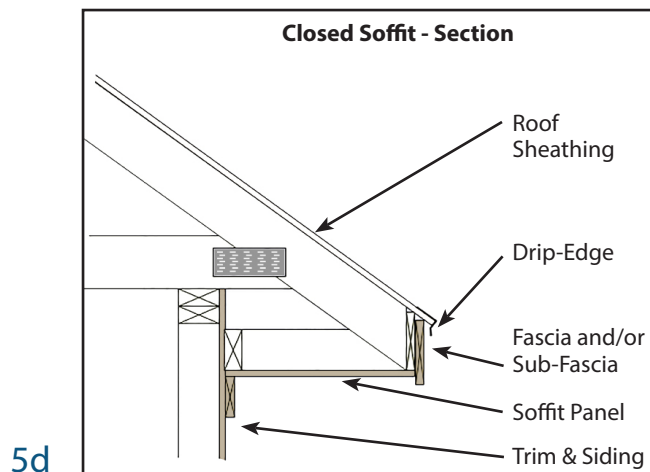
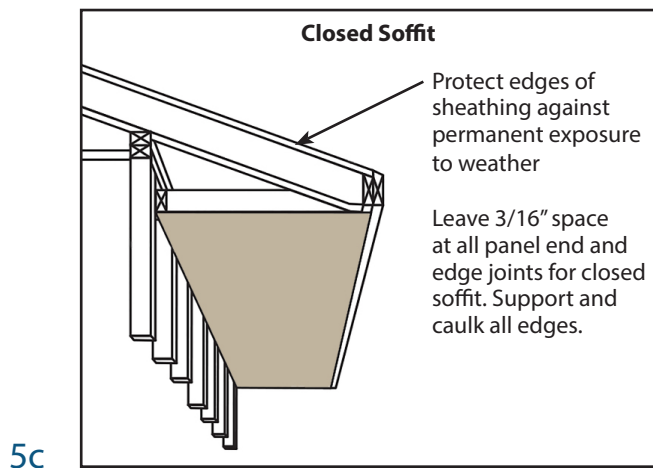
INSTALLATION

Open & Closed Soffit

- Consult your local building code for open soffit applications.
- Recommended spans for open and closed soffits are given in Table 3a. The recommendations in Table 3a for open soffits also apply to combined roof/ceiling construction. Panels are assumed continuous over two or more spans with the long dimension or strength axis perpendicular to supports for both applications.
(See Table 3a)
- In open and closed soffit construction, protect panel edges against direct exposure to the weather with LP SmartSide trim and fascia. Apply LP SmartSide soffit in a manner that prevents moisture intrusion and water build-up. All openings, other than the vents, must be primed, painted and caulked.
- **Open Soffit:** 76 and 190 Series strand substrate 4 ft. x 8 ft. soffit panels may be used face down as the first row of roof sheathing. Like any roof sheathing, the panels need to be installed perpendicular to the rafters. The only difference versus the rest of the sheathing is that soffit panels need to be supported along all four edges by solid blocking. Run 2x4 blocking between the rafters so you can nail the soffit to the blocking. Leave a 1/8 inch space between the edges and ends of the panels. Nail each panel 6 inches o.c. at the edges and 12 inches o.c. along intermediate supports. (See diagrams 5a and 5b)
- **Closed Soffit:** If soffit panels need to be field-cut to width, cut them 3/8 inch less than full width so you can leave a 3/16 inch space on each side. At all edges and ends, leave a 3/16 inch space and apply sealant. Nail the panels 6 inches o.c. at the edges and 12 inches o.c. in the field. (See diagrams 5c and 5d)



***Do not use 76 Series fiber substrate soffit or 38 Series strand substrate soffit in open soffit applications**

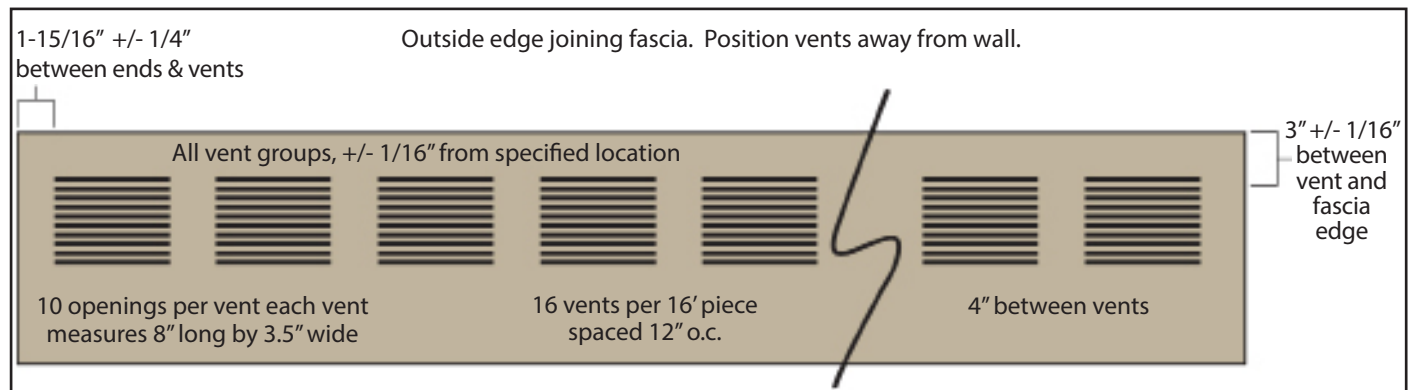


INSTALLATION

Vented Soffit

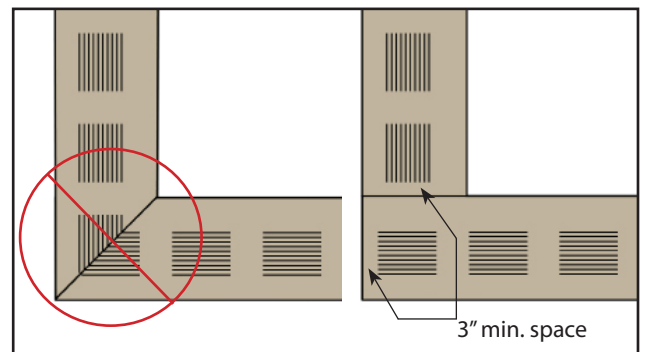
- Vented Cut-To-Width (CTW) soffit provides ventilation of 10 square inches per linear foot from the factory.
- Exhaust ducts shall terminate not less than 3 ft. in any direction from openings in vented soffit. Refer to your local code.
- When cutting soffit panels with a circular saw, orient the texture face down and fully support and brace to reduce vibration.
- Layout and install vented soffit in a manner that reduces or eliminates the need to cut through the vents. All soffit edges must be supported or backed by minimum 2x support. (See diagrams 6b to 6d)
- If the panels need to be field-cut to width, cut them 3/8 inch short to leave a 3/16 inch gap on each side. At all edges and ends, leave a 3/16 inch space and apply sealant. Nail the panels 6 inches o.c. at the edges and 12 inches o.c. along intermediate supports. Always prime and paint all exposed edges.
- The spokes within the vent may distort slightly during equilibration with the local environment. This condition is temporary and the spokes will straighten.

6a

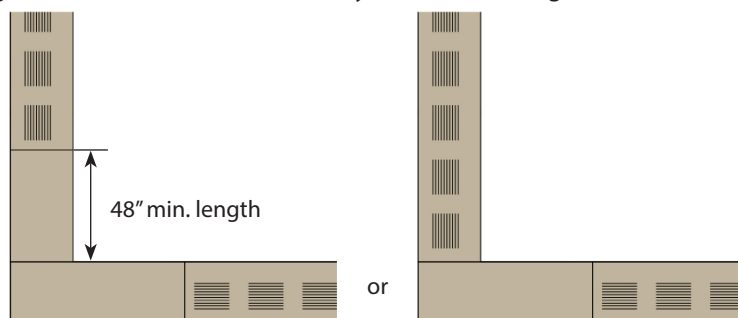


- Vented Corner with Square-Cut Ends: (See diagram 6b)
Run vented soffit all the way to the corner and butt the straight-cut edges of the soffit without cutting through the vents. Make sure that the vents do not land closer than 3 inches from the end or corner. Do not make diagonal cuts through the vents.
- Non-Vented Corner with Square-Cut Ends: (See diagram 6c)
You may use both vented and non-vented soffit in your design. For this layout you will use the vented soffit to span the straight runs, and use the non-vented soffit to cover the corners. By using non-vented corner pieces that are square-cut you can layout the soffit for either a symmetrical or non-symmetrical look. All soffit lengths must span a minimum of 48 inches.
- Non-Vented Corner with Diagonal-Cut Ends: (See diagram 6d)
The diagonal joint must be supported by framing and properly fastened.
- If building codes require a certain ratio of soffit ventilation that requires you to utilize ventilation space at corners, your options might be limited. Be sure to follow your local building codes.

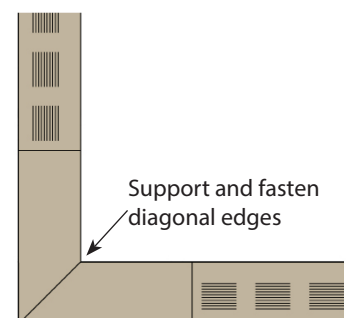
6b



6c



6d

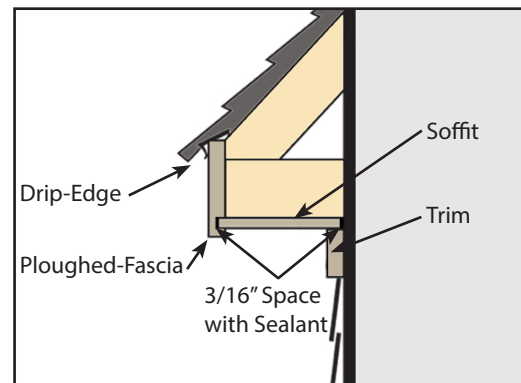


INSTALLATION

LP® SmartSide® Ploughed-Fascia with LP® SmartSide® Soffit

- LP SmartSide Ploughed Fascia is a trim product available in strand substrate.
- Applying LP SmartSide Soffit with LP SmartSide Ploughed Fascia is approved for closed soffit applications only. The ploughed groove in the fascia receives the outside edge of the soffit. You must still maintain a minimum 3/16 inch space around all ends and edges of the soffit, and apply sealant. (See diagram 7a)
- Before installing be sure that the soffit framing is straight, square and level. Fasten the LP SmartSide Ploughed Fascia meeting the specifications in the LP SmartSide Trim and Fascia Application Instructions.
- All panel ends and edges must be supported or backed by solid support. Additional blocking may need to be installed.

7a



Finishing Instructions

DO

- Prime all exposed wood substrates before painting.
- Paint all exposed soffit surfaces.
- Thoroughly paint the bottom edges of soffit especially all cut ends next to the roof line.
- Apply paint as soon as possible and within 180 days of application.
- Follow the coating manufacturer's application and maintenance instructions.

Do Not Use:

- Semi-transparent stain.
- Shake and shingle paints.
- Vinyl-based resin formulas such as vinyl acetate, PVA, vinyl acetate/acrylic copolymer paints.

CAUTION:

HANDLE PREFINISHED LP SMARTSIDE PRODUCTS WITH EXTREME CARE DURING STORAGE AND APPLICATION. TOUCH UP ANY DAMAGE TO THE FINISH THAT MAY OCCUR DURING APPLICATION PER PREFINISHERS SPECIFICATIONS.

LIMITED WARRANTY

The Louisiana-Pacific Corporation ("LP") LP® SmartSide® soffit (the "Products") limited warranty (the "Warranty") applies only to structures on which the Products have been applied, finished and maintained in accordance with the published application, finishing and maintenance instructions in effect at the time of application. Products affected by a failure to follow such application, finishing or maintenance instructions ("Affected Products") will be excluded from coverage under the Warranty.

LP assumes no liability for any loss or damage caused by the Affected Products and is expressly released by the purchaser or owner from any such loss or liability.

Any modification of the Warranty or the application, finishing and maintenance requirements is void unless approved in writing by LP prior to application.

For a copy of the warranty or installation and technical support, visit the LP Web site at:
WARRANTY REMEDIES ARE NOT AVAILABLE IF REQUIREMENTS ARE NOT FOLLOWED.

www.lpcorp.com
or for additional support call 800-450-6106

Cal. Prop 65 Warning: Use of this product may result in exposure to wood dust, known to the State of California to cause cancer.



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Nashville, TN 37219

www.lpcorp.com
www.lpsmartside.com

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NOTICE: Louisiana-Pacific Corporation periodically updates and revises its product information. The information in this document is subject to change without notice. To verify that this version is current, call 800-450-6106.

LP[®] SmartSide[®]
Soffit and Rated Sheathing/Ceiling Deck
Louisiana-Pacific Corporation

PR-N117

Revised June 20, 2023

Product: LP[®] SmartSide[®] Soffit and Rated Sheathing/Ceiling Deck
Louisiana-Pacific Corporation, 1610 West End Ave, Suite 200, Nashville, TN 37203
(888) 820-0325
www.lpcorp.com

1. Basis of the product report:
 - 2021, 2018, 2015, and 2012 International Building Code (IBC): Section 104.11 Alternative materials
 - 2021, 2018, 2015, and 2012 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, 2015, and 2008 ANSI/AWC Special Design Provisions for Wind and Seismic (SDPWS) recognized in the 2021, 2018 and 2015, and 2012 IBC, respectively.
 - 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[®] 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 Tables 1 and 2 based on the design procedures in ASCE 7-10 and ASCE 7-16, respectively.
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). 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, Tomahawk, WI, Two Harbors, MN, Sagola, MI, and Swan Valley, MB 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, 435 for the Tomahawk, WI plant, 399 for the Two Harbors, MN plant, 407 for the Sagola, MI plant, or 457 for the Swan Valley, MB 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_{asd}** for vented^(a) & non-vented LP® SmartSide Soffit^(b)

Minimum Nail Size ^(c)	Performance Category	Support Spacing ^(d) (in.)	Panel Nail Spacing		Maximum Allowable Wind Pressure (psf)	Maximum V _{asd} ^(e) (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	31	110	90	85
				6	62	150	130	120
24		6	12	21	90	NP ^(f)	NP ^(f)	
			6	42	130	110	100	
16		6	12	46	130	110	105	
			6	92	170	150	150	
8d box (0.113" x 2.5")	7/16	24	6	12	31	110	90	85
				6	59	150	130	120
16		6	12	45	130	110	105	
			6	89	170	150	145	
24		6	12	30	110	90	85	
			6	59	150	130	120	
8d box (0.113" x 2.5")	19/32	16	6	12	41	130	110	100
				6	82	170	150	140
24		6	12	27	105	90	NP ^(f)	
			6	55	150	125	110	
16		6	12	58	150	130	120	
			6	116	170	170	150	
10d box (0.128" x 3.0")	24	6	12	39	125	105	90	
			6	77	170	150	130	

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

^(a) Available vented area of 5 inches² per lineal foot of soffit or 10 inches² 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) 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 7-10 and Section R301.2.1 of the 2012 IRC.

^(f) Not permitted.

Table 2. **Maximum V_{ult} or V** for vented^(a) & non-vented LP® SmartSide Soffit^(b)

Minimum Nail Size ^(c)	Performance Category	Support Spacing ^(d) (in.)	Panel Nail Spacing		Maximum Ultimate Wind Pressure (psf)	Maximum V _{ult} or V ^(e) (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 ^(f)	160	160		
		24	6	12	35	115	NP ^(g)	NP ^(g)		
				6	69	160	140	130		
8d box (0.113" x 2.5")		16	6	12	77	160	150	130		
				6	153	200 ^(f)	200 ^(f)	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 ^(f)	200 ^(f)	180		
		24	6	12	50	140	120	110		
				6	99	200 ^(f)	160	150		
8d box (0.113" x 2.5")		19/32	16	6	12	69	160	140	130	
					6	137	200 ^(f)	200 ^(f)	180	
	24		6	12	46	130	115	NP ^(g)		
				6	92	180	160	150		
10d box (0.128" x 3.0")			16	6	12	96	180	160	150	
					6	193	200 ^(f)	200 ^(f)	200 ^(f)	
		24	6	12	64	160	130	120		
				6	128	200 ^(f)	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 inches² per linear foot of soffit or 10 inches² 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 7-16 and ASCE 7-10, Section R301.2.1 of the 2021, 2018, and 2015 IRC, and Section 1609.1.1 of the 2021 through 2012 IBC.

^(f) Table R301.2.1(1) of the 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.

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