

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION EC-22

Effective February 1, 2013

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **February 2017**.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

**LP SmartSide® Precision Series Lap and Panel Siding** manufactured by

**Louisiana-Pacific Corporation**  
**414 Union Street**  
**Suite 2000**  
**Nashville, Tennessee 37219**  
**Telephone: (800) 450-6106**

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

LP Smartside® Precision Series lap and panel siding are a composite of oriented strand board (OSB) bonded to a 0.012 inch thick phenolic resin-saturated, primed paper overlay. The lap siding covered in this evaluation report is available in  $\frac{3}{8}$  and  $\frac{7}{16}$  inch thicknesses. The lap siding covered in this evaluation report is available in 6, 8, and 12 inch widths and comes in 16 ft. lengths. The panel siding covered in this evaluation report is available in  $\frac{3}{8}$ ,  $\frac{7}{16}$ , and  $\frac{19}{32}$  inch thicknesses. The panel siding has shiplap edges. The panel siding is 4 feet wide and 4 to 10 feet in length.

## LIMITATIONS

### Lap Siding

- **Wall Framing:** Minimum Spruce-Pine-Fir dimension lumber (minimum specific gravity of 0.42).
- **Wall Stud Spacing:** Refer to Table 1.
- **Fastener:** 8d box nails (minimum head diameter of 0.297"; minimum smooth shank diameter of 0.113", minimum length of 2  $\frac{1}{2}$ ").
- **Design Pressure:** The design pressure rating for the lap siding shall be as specified in Table 1.

**Table 1**  
**SmartSide® Precision Series Lap Siding**  
**Allowable Design Pressure**

Lap Siding Thickness	Maximum Wall Stud Spacing	Siding Width (in.)	Allowable Design Pressure (psf)
3/8"	16" o.c.	6	80
		8	79
		12	50
7/16"	16" o.c.	6	80
		8	76
		12	49
	24" o.c.	6	71
		8	51
		12	32

**Panel Siding (3/8" inch thick)**

- **Shiplap Edge Thickness:** 5/16".
- **Wall Framing:** Minimum Douglas Fir-Larch dimension lumber (minimum specific gravity of 0.50).
- **Wall Stud Spacing:** Maximum 16 inches on center.
- **Design Pressure:** The design pressure rating for the panel siding shall be as specified in Table 2.
- **Lateral Load Resistance:** The allowable lateral load rating for the panel siding shall be as specified in Table 2.

**Panel Siding (7/16" inch thick or 19/32" inch thick)**

- **Shiplap Edge Thickness:** 3/8".
- **Wall Framing:** Minimum Douglas Fir-Larch dimension lumber (minimum specific gravity of 0.50).
- **Wall Stud Spacing:** Maximum 16 inches on center.
- **Design Pressure:** The design pressure rating for the panel siding shall be as specified in Table 2.
- **Lateral Load Resistance:** The allowable lateral load rating for the panel siding shall be as specified in Table 2.

**Table 2**  
**SmartSide® Precision Series Panel Siding**  
**Allowable Design Pressure, Allowable Lateral Load**

Panel Thickness	Fastener	Fastener Spacing		Maximum Stud Spacing	Allowable Design Pressure	Allowable Lateral Load
		Perimeter	Field			
3/8"	6d box nails	3" o.c.	12" o.c.	16" o.c.	50 psf	350 plf
7/16"	8d box nails	3" o.c.	12" o.c.	16" o.c.	50 psf	410 plf
19/32"	8d box nails	3" o.c.	12" o.c.	16" o.c.	50 psf	410 plf

## INSTALLATION INSTRUCTIONS

### **SmartSide® Precision Series Lap Siding:**

The siding shall be installed in accordance with the manufacturer's installation instructions and this product evaluation report.

The lap siding shall not be used as wall bracing.

The lap siding may be installed over sheathing or directly to the wall studs.

The lap siding shall be blind nailed to each wall stud per the manufacturer's installation instructions using the fasteners specified in this evaluation report. One fastener per wall stud is required. The fasteners shall be located  $\frac{3}{4}$  inch from the top edge of the siding.

Maximum wall stud spacing shall be as specified in Table 1.

Lap siding joints shall be staggered over successive courses. For installation with or without nailable sheathing, joints shall occur over wall framing.

If a non-structural sheathing (foam or fiberboard) is used, then the length of the fasteners used to secure the siding to the wall framing shall be increased by the thickness of the non-structural sheathing.

The fasteners shall penetrate the wall framing a minimum of  $1\frac{1}{2}$  inches.

### **SmartSide® Precision Series Panel Siding:**

The panel siding shall be installed in accordance with the manufacturer's recommended installation instructions and this product evaluation report.

The panel siding may be used as wall bracing.

Panel siding not used for lateral load resistance may be installed over sheathing or directly to the wall studs.

Panel siding used for lateral load resistance shall be installed directly to the wall studs.

The panel siding shall be installed with the long dimension in the vertical direction.

Maximum wall stud spacing shall be as specified in this evaluation report.

Fasteners shall penetrate wall studs a minimum of  $1\frac{1}{2}$  inches.

Fastener spacing shall be as specified in Table 2.

A double row of fasteners are required along the vertical panel shiplap edges. Fastener location shall be as specified in the manufacturers installation instructions.

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.