



**RESEARCH BULLETIN  
COUNTY OF LOS ANGELES  
DEPARTMENT OF PUBLIC WORKS  
BUILDING AND SAFETY DIVISION**

**RB6  
1-6-17  
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**Applicable Code(s):** 2017 LACBC & LACRC  
**Expiration Date:** 12-31-20

**Purpose:**

Approval of LP Smartside Precision Lap Siding and LP Smartside Precision Panel Siding.

**Conditions of Approval:**

1. Demonstrate compliance with ICC ESR-1301.
2. Application of these engineered-wood exterior wall covering materials are limited to non-habitable structures such as garages and storage sheds.
3. Application of these materials shall be limited to a maximum building area of 1000 ft<sup>2</sup>.
4. LP Smartside Precision Panel Siding shear wall capacity on Table 1 of ICC ESR-1301 is revised as followed:

**TABLE 1—ALLOWABLE RACKING SHEAR (plf) FOR LP SMARTSIDE® STRAND SUBSTRATE PANEL SIDING—SHEATHING SHEAR WALLS WITH FRAMING OF DOUGLAS FIR—LARCH OR SOUTHERN PINE FOR WIND OR SEISMIC LOADING<sup>1,2,3</sup>**

PERFORMANCE CATEGORY	MINIMUM NAIL PENETRATION IN FRAMING (inches)	PANELS APPLIED DIRECTLY TO FRAMING				
		Nail Size (Common or Galvanized Box)	Nail Spacing at Panel Edges (inches)			
			6	4	3	2 <sup>4</sup>
<del>5/16<sup>5,6</sup></del>	<del>1 1/4</del>	6d	<del>180</del>	<del>270</del>	<del>360</del>	<del>450</del>
<del>3/8<sup>5,6</sup></del>			<del>200</del>	<del>300</del>	<del>390</del>	<del>510</del>
3/8 <sup>5,6</sup>	1 1/2	8d	200 <del>220</del>	200 <del>320</del>	200 <del>410</del>	200 <del>530</del>
7/16 <sup>5</sup>			240	350	450	585
19/32 <sup>5</sup>	1 5/8	10d	340	510	665 <sup>4</sup>	870

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

<sup>1</sup>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.

<sup>2</sup>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 category and 7/16 category panels installed on studs spaced 24 inches o.c. For other conditions and panel thicknesses, space nails 12 inches o.c. on intermediate supports.

<sup>3</sup>The values are for short-term loads due to wind or earthquake (133% increase) and must be reduced by 25 percent for normal duration of loading.

<sup>4</sup>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.

<sup>5</sup>Except as noted in Footnote 7, panel thickness at point of nailing at panel edges determines applicable shear values, except that 3/8 category panels nailed at shiplap edges use shear values for 5/16 category panels, and 7/16 and 19/32 category panel sidings nailed at shiplap edges use shear values for 3/8 category panels.

<sup>6</sup>Shiplap edges must be double-nailed; one nail must be placed in the underlap and a second nail must be placed in the overlap at the nail spacing specified for the applicable shear value.

<sup>7</sup>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.

**Associated Files:**

<P:\bspub\GENERAL\B&S Plancheck\Research Bulletins\2017\RB6 LP Smartside Precision Panel Siding>

*This general approval is only valid when all Conditions of Approval are satisfied as determined by an authorized staff of Building and Safety Division.*