



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

**RB6  
06-29-21  
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**Applicable Codes**

2020 Los Angeles County Building Code (LACBC)  
2020 Los Angeles County Residential Code

**Expiration Date**

December 31, 2022\*

**Purpose**

Approval of LP® SmartSide® Lap Siding and LP® SmartSide® 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® Panel Siding shall be applied directly to framing pursuant to LACBC Section 2306.3 and shall not be applied over gypsum wall board or sheathing.
5. LP® SmartSide® Panel Siding shear wall capacity on Table 1 of ICC ESR-1301 is revised as follows:

\* Research Bulletin remains valid for use on projects submitted on or before the expiration date.

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>1,2,3,7,8</sup>

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

<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<sup>5</sup>/<sub>8</sub> 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 <sup>3</sup>/<sub>8</sub> category panels nailed at shiplap edges use shear values for <sup>5</sup>/<sub>16</sub> category panels, and <sup>7</sup>/<sub>16</sub> and <sup>19</sup>/<sub>32</sub> category panel sidings nailed at shiplap edges use shear values for <sup>3</sup>/<sub>8</sub> category panels.

<sup>6</sup>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.

<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.

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

**Associated Files**

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This general approval is only valid when all conditions of approval are satisfied as determined by the authorized staff of Building and Safety Division.

Supersedes RB6, dated: 1-6-17.

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