



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

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 ft².
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^{1,2,3}

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 ⁴
5/16^{5,6}	1 1/4	6d	180	270	360	450
3/8^{5,6}			200	300	390	510
3/8^{5,6}	1 1/2	8d	200 220	200 320	200 410	200 530
7/16⁵			240	350	450	585
19/32⁵	1 5/8	10d	340	510	665 ⁴	870

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

¹For 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.

²All 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.

³The 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.

⁴Framing 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.

⁵Except 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.

⁶Shiplap 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.

⁷Fasteners 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.