

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION EC-35

Effective August 1, 2013

*The following product has been evaluated for compliance with the wind loads specified in **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **August 2014**.*

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® Foundation and Architect Series Lap Siding and Panel Siding manufactured by

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will be acceptable 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® Foundation and Architect Series lap and panel siding is produced from a pressed fiberboard substrate. The pressed surface of the lap or panel siding may be plain or textured. If the surface contains any grooves, they are pressed into the surface rather than machined. The board is then baked, humidified, graded, and trimmed to finish size. All siding shall be clearly labeled with either the manufacturer's name or trademark.

The following LP Smartside® Foundation and Architect Series lap and panel siding products have been accepted:

Primed Lap Siding is nominal $\frac{1}{2}$ or $\frac{7}{16}$ inch thick. The siding comes in 16 foot lengths. The $\frac{1}{2}$ inch thick siding is available in 8 inch wide smooth and cedar textures. The $\frac{7}{16}$ inch thick siding is available in smooth, cedar texture, smooth beaded, and textured beaded. The 6 and 8 inch wide profiles have been accepted for the smooth and cedar texture. The smooth beaded and textured beaded siding is available in an 8 inch wide profile.

Molded Primed Lap Siding is nominal $\frac{1}{2}$ or $\frac{7}{16}$ inch thick. The Double 5 profile has been accepted. The siding comes in an 11 $\frac{1}{2}$ inch wide profile and is 16 feet in length.

Panel Siding is nominal $\frac{1}{2}$ or $\frac{7}{16}$ inch thick and has shiplap edges. The siding is 4 feet wide and comes in lengths of 7, 8, 9, and 10 feet. The $\frac{1}{2}$ inch thick panel siding is available in primed 8 inch on center cedar texture. The $\frac{7}{16}$ inch thick panel siding is available in prefinished, unfinished, and primed finishes. Surface textures include vertical groove, reverse board and batten, 8 inch on center cedar texture, knotty barnboard, and stucco.

INSTALLATION INSTRUCTIONS

General Installation Requirements:

All fasteners shall be corrosion resistant. Lap siding shall not be used as wall bracing. If the siding is applied directly to the wall studs, then a building paper shall be applied first.

Wind Resistant Assemblies:

Assembly No. 1

Primed Lap Siding

Design pressure: -66 psf

Installation: Wall studs shall be minimum 2x4 No. 2 grade SPF dimension lumber. The studs shall be spaced a maximum of 16 inches on center. The siding shall be fastened to the wall studs with minimum 8d galvanized box nails. The fasteners shall penetrate the wall studs a minimum of 1 ½ inches. The siding shall be applied with a minimum 1 inch overlap. Position the nails ¾ inch from the bottom edge of the siding in order to penetrate both siding courses. Nail ⅜ inch from butt ends.

Assembly No. 2

Primed Lap Siding

Design pressure: -73 psf

Installation: Wall studs shall be minimum 2x6 No. 2 grade SPF dimension lumber. The wall studs shall be sheathed with minimum ⅞ inch thick structural sheathing. The siding shall be fastened to the substrate with minimum 8d galvanized box nails. The fasteners shall be spaced 12 inches on center with every other fastener penetrating a wall stud. The fasteners shall penetrate the wall studs a minimum of 1 ½ inches. The siding shall be applied with a minimum 1 inch overlap. Position the nails ¾ inch from the bottom edge of the siding in order to penetrate both siding courses. Nail ⅜ inch from butt ends.

Assemblies No. 3 and No. 4

Molded Primed Lap Siding

Assembly No. 3

Design pressure (using 8d galvanized box nails): -36 psf

Assembly No. 4

Design pressure (using 10d galvanized box nails): -54 psf

Installation: Wall studs shall be minimum 2x4 No. 2 grade SPF dimension lumber. The wall studs shall be spaced a maximum of 16 inches on center. The siding shall be fastened to the wall studs. The fasteners shall penetrate the wall studs a minimum of 1 ½ inches. The siding shall be applied with a minimum ⅝ inch overlap. Position the nails 1 inch from the bottom edge of the siding in order to penetrate both siding courses. Nail ⅜ inch from butt edges of vertical joints.

Assembly No. 5

Molded Primed Lap Siding

Design pressure: -72 psf

Installation: Wall studs shall be minimum 2x6 No. 2 grade SPF dimension lumber. The wall studs shall be spaced a maximum of 24 inches on center. The wall studs shall be sheathed with minimum $\frac{7}{16}$ inch thick structural sheathing. The siding shall be fastened with minimum 8d galvanized box nails. The fasteners shall be spaced 12 inches on center with every other fastener penetrating a wall stud. The fasteners shall penetrate the wall studs a minimum of $1\frac{1}{2}$ inches. The siding shall be applied with a minimum $\frac{5}{8}$ inch overlap. Position the nails 1 inch from the bottom edge of the siding in order to penetrate both siding courses. Nail $\frac{3}{8}$ inch from butt edges of vertical joints.

Assembly No. 6

Panel Siding

Fasteners: 8d box nails; 6" on center along panel edges; 12" on center along interior framing

Design pressure: -52 psf

Racking load resistance: 410 plf

Installation (general): Wall studs shall be minimum No. 2 grade SPF dimension lumber. Wall bracing shall be installed as required. The panels shall be installed with the long dimension in the vertical direction. The fasteners shall penetrate the wall studs a minimum of $1\frac{1}{2}$ inches.

Installation (when used as lateral bracing): The panels shall be installed with the long dimension in the vertical direction. Each siding panel used as wall bracing shall be a minimum of 48 inches in width. The siding shall be fastened to the upper member of the double top plate and to the sole plate. All panel edges shall be nailed to wall framing. Double nailing of the vertical joints is required.

Assembly No. 7

Panel Siding

Fasteners: 8d box nails; 4" on center along panel edges; 8" on center along interior framing

Design pressure: -52 psf

Racking load resistance: 517 plf

Installation (general): Wall studs shall be minimum No. 2 grade SPF dimension lumber. Wall bracing shall be installed as required. The panels shall be installed with the long dimension in the vertical direction. The fasteners shall penetrate the wall studs a minimum of $1\frac{1}{2}$ inches.

Installation (when used as lateral bracing): The panels shall be installed with the long dimension in the vertical direction. Each siding panel used as wall bracing shall be a minimum of 48 inches in width. The siding shall be fastened to the upper member of the double top plate and to the sole plate. All panel edges shall be nailed to wall framing. Double nailing of the vertical joints is required.

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