

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION EC-55

Effective August 1, 2008

*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 3 years after the effective date.*

*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.*

**Artisan® Lap Siding**, fiber-reinforced cement exterior siding, manufactured by

**James Hardie Building Products, Inc.**  
**10901 Elm Avenue**  
**Fontana, California 92337**  
**Telephone: 800-942-7343**

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

The following James Hardie Building Products have been accepted:

**Artisan®** lap siding is nominal  $\frac{5}{8}$  inches thick. The siding comes in lengths of 12 feet, and the siding is available in widths up to  $8\frac{1}{4}$  inches. The vertical edges of the siding are tongue and groove joints. The siding is available in a variety of finishes.

## INSTALLATION REQUIREMENTS

### General Installation Requirements:

All fasteners shall be corrosion resistant.

**Artisan® Lap Siding:** Vertical splices shall be made between framing members 4 inches off the stud. Nails shall not be placed within 2 inches of the tongue and groove at the end of the planks. In addition, successive splices in the same plank shall be at least 48 inches apart and splices within the same stud cavity shall be at least 24 inches apart.

**Artisan® Lap Siding:** This product shall not be used as wall bracing.

### Wind Resistant Assemblies:

#### Artisan® Lap Siding (Concealed Nailing Method)

##### Assembly No. 1

**Design pressure:** -33 psf

**Fastener:** 0.092 inch shank,  $2\frac{1}{4}$  inch long, 0.225 inch head

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 16 inches on center

**The following products are applicable:** Artisan® Lap siding  $8\frac{1}{4}$  inches in width or less.

**Artisan® Lap Siding (Concealed Nailing Method) (continued)**

**Assembly No. 2**

**Design pressure:** -82 psf

**Fastener:** 0.092 inch shank,  $2\frac{1}{4}$  inch long, 0.225 inch head

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 16 inches on center

**The following products are applicable:** Artisan® Lap siding  $5\frac{1}{4}$  inches in width or less.

**Assembly No. 3**

**Design pressure:** -41 psf

**Fastener:** 0.092 inch shank,  $2\frac{1}{4}$  inch long, 0.225 inch head

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 24 inches on center

**The following products are applicable:** Artisan® lap siding  $5\frac{1}{4}$  inches in width or less.

**Installation:** Wall bracing shall be installed as required. A building paper shall be applied to the wall studs before installing the siding. The fasteners shall be driven through the top of the plank and into the framing member. The fastener should be located 1 inch from the top edge of the plank and covered by the next succeeding course of planks. The first Artisan® plank should be installed horizontally over a  $1\frac{1}{4}$  inch wide weather resistant lath starter strip. The remaining courses are then installed with minimum  $1\frac{1}{4}$  inch wide overlaps. Flashing, trim, and corners should be installed according to the manufacturer's specifications.

**Lap Siding (Exposed/Concealed Combination Nailing Method, refer to Figure 1)**

**Assembly No. 4**

**Design pressure:** -45 psf

**Concealed Fastener:** 0.092 inch shank diameter,  $2\frac{1}{2}$  inch long, and 0.225 inch diameter head.

**Exposed Fastener:** No. 16 gauge (0.0625"),  $2\frac{1}{2}$  inch long, finish nail.

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 16 inches on center

**The following products are applicable:** Artisan® Lap siding  $8\frac{1}{4}$  inches in width or less.

**Assembly No. 5**

**Design pressure:** -63 psf

**Concealed Fastener:** 0.092 inch shank diameter,  $2\frac{1}{2}$  inch long, and 0.225 inch diameter head.

**Exposed Fastener:** No. 16 gauge (0.0625"),  $2\frac{1}{2}$  inch long, finish nail.

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 16 inches on center

**The following products are applicable:** Artisan® Lap siding  $7\frac{1}{4}$  inches in width or less.

**Assembly No. 6**

**Design pressure:** -100 psf

**Concealed Fastener:** 0.092 inch shank diameter,  $2\frac{1}{2}$  inch long, and 0.225 inch diameter head.

**Exposed Fastener:** No. 16 gauge (0.0625" diameter),  $2\frac{1}{2}$  inch long, finish nail.

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 16 inches on center

**The following products are applicable:** Artisan® Lap siding  $5\frac{1}{4}$  inches in width or less.

**Assembly No. 7**

**Design pressure:** -80 psf

**Concealed Fastener:** 8d box nail, 0.113 inch shank diameter,  $2\frac{3}{8}$  inch long ring shank.

**Exposed Fastener:** No. 16 gauge (0.0625" diameter),  $2\frac{1}{2}$  inch long, finish nail.

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 16 inches on center

**The following products are applicable:** Artisan® Lap siding  $8\frac{1}{4}$  inches in width or less.

**Lap Siding (Exposed/Concealed Combination Nailing Method, refer to Figure 1) (continued)**

**Assembly No. 8 (wall studs 16 inches on center)**

**Design pressure:** -87 psf

**Concealed Fastener:** 8d box nail, 0.113 inch shank diameter, 2  $\frac{3}{8}$  inch long ring shank.

**Exposed Fastener:** No. 16 gauge (0.0625" diameter), 2  $\frac{1}{2}$  inch long, finish nail.

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 16 inches on center

**The following products are applicable:** Artisan® Lap siding 7  $\frac{1}{4}$  inches in width or less.

**Assembly No. 9 (wall studs 16 inches on center)**

**Design pressure:** -100 psf

**Concealed Fastener:** 8d box nail, 0.113 inch shank diameter, 2  $\frac{3}{8}$  inch long ring shank.

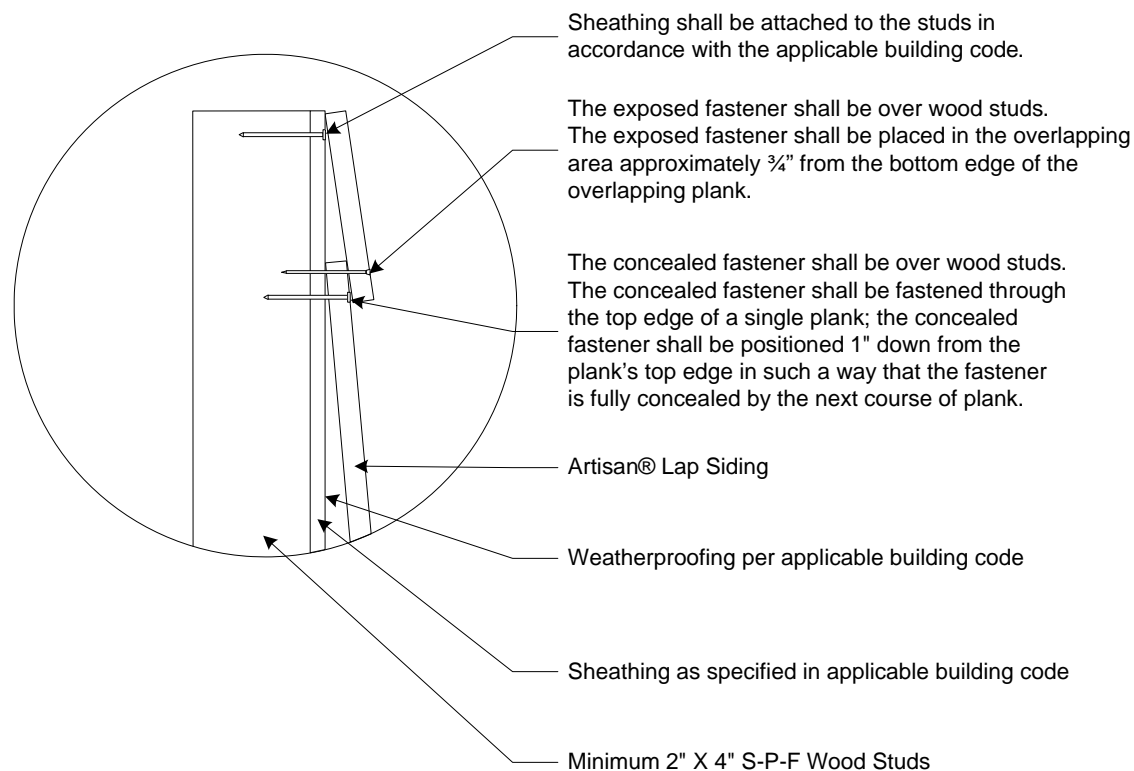
**Exposed Fastener:** No. 16 gauge (0.0625" diameter), 2  $\frac{1}{2}$  inch long, finish nail.

**Wall framing:** 2 x 4 SPF lumber spaced a maximum of 16 inches on center

**The following products are applicable:** Artisan® Lap siding 5  $\frac{1}{4}$  inches in width or less.

**Installation:** Wall studs shall be minimum 2x4 SPF dimension lumber. Wall bracing shall be installed as required. A building paper shall be applied to the wall studs before installing the siding. The concealed fastener shall be driven through the top of the plank using the concealed nailing method into the framing member. The concealed fastener should be 1 inch from the top edge of the plank and covered by the next succeeding course of planks. The exposed fastener shall be driven through the overlap using the exposed nailing method. The exposed fastener shall be located  $\frac{3}{4}$  inch from the bottom of the plank. The first Artisan® plank should be installed horizontally over a 1  $\frac{1}{4}$  inch wide weather resistant lath starter strip. The remaining courses are then installed with minimum 1  $\frac{1}{4}$  inch wide overlaps. Flashing, trim, and corners should be installed according to the manufacturer's specifications.

**Figure 1, Exposed/Concealed Combination Nailing Method**



**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) and the International Building Code (IBC).