TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective September 1, 2011
DR-494

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC). This product shall be subject to reevaluation August 2015.

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.

FiberLast, In-swing and Out-swing, $\frac{7}{8}$ Glazed French Double Door Systems, **Non-Impact Resistant**, manufactured by

JELD-WEN Windows and Doors
3737 Lakeport Blvd.
Klamath Falls, OR 97601
(541) 882-3451, ext. 2900

will be acceptable 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 FiberLast $\frac{7}{8}$ Glazed French doors evaluated in this report are non-impact resistant. This product evaluation report is for FiberLast doors based on the following tested construction:

General Description:

System	Description	Label Rating
1	FiberLast French Door, X, Inswing	MST 3'-1" x 6'-8" DP: ±60psf
2	FiberLast French Doors, X, Outswing	MST 3'-1" x 6'-7" DP: ±60psf
3	FiberLast French Doors, XX, Inswing	MST 6'-0" x 6'-8" DP: ±55psf
4	FiberLast French Doors, XX, Outswing	MST 6'-0" x 6'-7" DP: ±55psf

Component Dimensions:

Maximum Overall Size:

System	Overall Size
1	36 3/8" x 79 5/8"
2	36 3/8" x 78 3/4"
3	71 1/2" x 79 5/8"
4	71 1/2" x 78 3/4"

Door Panel Size and Daylight Opening Size:

System	Door Panel Sizes	Daylight Opening Glass Size
1-4	34 9/16" x 76 3/4" x 1 3/4"	22 11/16" x 55 1/8"

Glazing Description:

System	Glass Construction [1]	Glazing Method [2]
1-4	IG-1	GM-1

Note: [1] See the "Glass Construction Key" for the glass construction.
[2] See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:
IG-1: ODL insulated glass units. The insulating glass units are comprised of two (2) double strength (1/8") fully tempered glass lites with a 3/4" air space.

Glazing Method Key:
GM-1: Door glass assemblies are sandwiched in the panels with the plastic ODL lite frame. The exterior molding perimeter utilizes an integral urethane gasket between lite frame and panel. The interior frame is secured to the exterior frame with No. 8 x 1 1/2" long Phillips flat head screws. The glass bite is 1/2".

Frame Construction: The jambs and heads are constructed from wood and dimensioned at 4 9/16" wide by 1 1/4" thick. The outswing frame utilizes Endura aluminum bump thresholds measuring 4 9/16" wide, model ZOBL5625F, kerfed to receive compression weather stripping. The inswing frame utilizes an Endura model ZAI5625DSR threshold. The thresholds are attached to the side jambs with three (3)-16ga ¼" crown x 2" long wire staples, and two (2) No. 8 x 2 1/2" screws at each end. The head and jamb corners are coped, butted, and sealed using four (4) 16ga 7/16" crown x 2" long wire staples per corner. The outswing systems have a 3/8" hole drilled at the center of the frame head, where a metal plate is fastened using two (2) No. 8 x 2½" screws to receive the top astragal bolt. The bottom threshold utilizes a plastic cup inserted into a 1/2" drilled hole. The inswing systems have a 3/8" hole drilled at the center of the sill and head where a plate is fastened over each using two (2) No. 8 x 2 1/2" screws, to receive the top and bottom astragal bolt.

Door and Side-lite Panel Construction: All panels are constructed from two face sheets of (0.21" nominal thick) fiberglass and wood fiber skin. The door leaf face sheets are glued to an AuraLast treated pine hinge stile, an AuraLast treated pine lock stile, an AuraLast treated pine top rail, and a composite bottom rail made of foamed polyvinyl chloride (PVC) and laminated veneer lumber (LVL). Each door leaf wood corner is joined using two (2) 13 mm x 11mm (0.5" x 0.438") staples. The core consists of 2.0 lb/ft^3 density polyurethane core.

Astragal Construction:
The in-active panel utilizes a Global Astragal.

Hardware:

- Kwikset Lockset Series 400; One (1) required; located at the lock stile, 32 ¾ inches from bottom of door panel.
- Kwikset Deadbolt Series 660; One (1) required; Located at the lock stile, 38 ¼ inches from bottom of door panel.
- Radius Butt Hinges; Six (6) required (3 per door panel); Located 6 ¾ inches, 36 inches, and 65 ¼ inches from the top of door leaf to top of hinge.

Product Identification: A certification program label (NAMI) will be affixed to the assembly. The certification program label includes the manufacturer's name (Jeld-Wen); product name; performance characteristics; approved inspection agency (NAMI); and that the product was tested, at least, in accordance with ASTM E330 and ASTM E331.

LIMITATIONS

Design pressures (DP):

System	Maximum Overall Width	Maximum Overall Height	Design Pressure (psf)
1	3'-1"	6'-8"	±60
2	3'-1"	6'-7"	±60
3	6'-0"	6'-8"	±55
4	6'-0"	6'-7"	±55

Impact Resistance: These door systems do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These door assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

Acceptance of Smaller Assemblies: Door assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

INSTALLATION INSTRUCTIONS

General: Door assemblies shall be prepared and installed in accordance with the manufacturer's recommended installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

Installation: Door assemblies shall be fastened to minimum Southern Yellow Pine dimension lumber wall framing in accordance with this product evaluation report. The doors are secured to the wood framing members with No. 10 x 2 ½" long wood screws. The door system shall be secured to the wall framing as follows:

Frame (System 1 and 2): Qty 16, No. 10 wood screws located in head and jamb, and threshold. Screws are to be located at the following locations.

Jambs: Five (5) in each jamb located 6 inches from each end 17 inches on center thereafter

Head: Three (3) in the head, 3 inches from each end of unit and one at center of span.

Sill: Three (3) in the threshold, 3 inches from each end of unit and one at center of span.

Frame (System 3 and 4): Qty 28, No. 10 wood screws located in head and jamb, and threshold. Screws are to be located at the following locations.

Jambs: Five (5) in each jamb located 6 inches from each end and 17 inches on center thereafter

Head: Nine (9) in the head, one 3 inches from each end, one in center of each door span, one in head center span, and one 3 inches and 6 inches on both sides of center span.

Sill: Nine (9) in the threshold, one 3 inches from each end, one in center of each door span, one in threshold center span, and one 3 inches and 6 inches on both sides of center span.

If the frame is attached to concrete rather than wood framing members, a $\frac{3}{16}$" diameter flat head Tapcon concrete anchor may be substituted for the No. 10 screws noted above. No. 10 wood screws must have a minimum embedment of $1\frac{1}{2}$ inches into the wood frame, and Tapcon anchors must have a minimum embedment of $1\frac{1}{4}$ inches into the masonry.

Alternative Configurations and Substrates: For any configuration or substrate not specifically addressed above, the doors may be anchored in accordance with the following design drawing: Jeld-Wen Fiberlast French Patio 6'-0" x 6'-8" door series, drawing number JW182010, sheets 1 thru 10 of 10, dated October 27, 2010, signed and sealed by Alexis Spyrou, P.E. on August 8, 2011. A copy of the design drawings shall be available at the job site.

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