

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION

DR-246

Effective Date: March 1, 2014
Reevaluation Date: **February 2016**

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 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.

Premium Atlantic Vinyl 3800 Sliding Patio Doors, Impact Resistant, manufactured by

JELD-WEN Windows & Doors
3737 Lakeport Blvd.
Klamath Falls, Oregon 97601
Telephone: (541) 882-3451

General Description:

System	Description	Label Rating	Design Pressure Rating (psf)
1	Premium Atlantic Vinyl Sliding Glass Door (3800); FIN; OX; (INS TEMP/LAM)	LC-PG50 96 x 96-SD; AAMA 506; Missile Level D; Negative Design Pressure = -55	+50, -55
2	Premium Atlantic Vinyl Sliding Glass Door (3800); FLANGE; OX; (INS TEMP/LAM)	LC-PG50 96 x 96-SD; AAMA 506; Missile Level D Negative Design Pressure = -55	+50, -55
3	Premium Atlantic Vinyl Sliding Glass Door (3800); FIN; OXXX; (INS HS LAM GL)	SD-R65 143 x 80; AAMA 506; Missile Level D	± 65
4	Premium Atlantic Vinyl Sliding Glass Door (3800); FLANGE; OXXX; (INS HS LAM GL)	SD-R65 143 x 80; AAMA 506; Missile Level D	± 65
5	Premium Atlantic Vinyl Sliding Glass Door (3800); FIN; OX; (INS TEMP/PVB LAM GL)	R-PG65 72 x 80 – SD; AAMA 506; Missile Level D	± 65
6	Premium Atlantic Vinyl Sliding Glass Door (3800); FIN; OX; (INS TEMP/SGP LAM GL)	R-PG65 72 x 80 – SD; AAMA 506; Missile Level D	± 65

General Description (Continued):

System	Description	Label Rating	Design Pressure Rating (psf)
7	Premium Atlantic Vinyl Sliding Glass Door (3800); FINLESS; OX; (INS TEMP/PVB LAM GL)	R-PG65 72 x 80 – SD; AAMA 506; Missile Level D	± 65
8	Premium Atlantic Vinyl Sliding Glass Door (3800); FIN; XXXX; (INS TEMP/LAM GL)	LC-PG50 187 x 96 – SD; AAMA 506; Missile Level D	± 50
9	Premium Atlantic Vinyl Sliding Glass Door (3800); FINLESS; XXXX; (INS TEMP/LAM GL)	LC-PG50 187 x 96 – SD; AAMA 506; Missile Level D	± 50
10	Premium Atlantic Vinyl Sliding Glass Door (3800); FIN; OXXX; (INS TEMP/LAM GL)	LC-PG50 191 x 96 – SD; AAMA 506; Missile Level D	± 50
11	Premium Atlantic Vinyl Sliding Glass Door (3800); FINLESS; OXXX; (INS TEMP/LAM GL)	LC-PG50 191 x 96 – SD; AAMA 506; Missile Level D	± 50
12	Premium Atlantic Vinyl Sliding Glass Door (3800); FIN; OX; (INS LAM GL)	R-PG50 72x80-SD Missile Level D	+50 / -55
13	Premium Atlantic Vinyl Sliding Glass Door (3800); FINLESS; OX; (INS LAM GL)	R-PG50 72x80-SD Missile Level D	+50 / -55

Component Dimensions:

System	Overall Door Size	Panel Sizes	Glass Daylight Opening Size
1, 2	95.50" x 95.50"	Operable/Fixed: 48.38" x 92.88"	41.21" x 85.71"
3, 4	142.60" x 79.50"	Fixed Panel: 36.50" x 76.88" Operable Panel: 36.50" x 76.88" Operable Panel w/Astragal: 39.00" x 76.88"	29.25" x 69.75"
5, 6, 7, 12, 13	71.50" x 79.50"	Operable/Fixed: 36.50" x 76.88"	29.25" x 69.75"
8, 9	186.75" x 95.50"	Active w/lock and interlock (1): 48.50" x 92.88" Active w/astragal (1): 50.63" x 92.88" Active w/interlock (2): 48.63" x 92.88"	41.25" x 85.75"
10, 11	190.63" x 95.50"	Active w/lock and interlock (2): 48.50" x 92.88" Active w/astragal (1): 50.63" x 92.88" Active w/interlock (1): 48.63" x 92.88"	41.25" x 85.75"

Product Identification (Certification Agency Label on the Door):

System		
1	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD (3800) FIN
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08; AAMA 506-06; Missile Level D
2	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD (3800) FLANGE
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08; AAMA 506-06; Missile Level D
3	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD (3800) (FIN)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506; Missile Level D
4	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD (3800) (FLANGE)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506; Missile Level D
5	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
6	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
7	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
8	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
9	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D

Product Identification (Certification Agency Label on the Door) - continued:

System		
10	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
11	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506; Missile Level D
12	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV 3800 FIN SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506-06; Missile Level D
13	Certification Agency	AAMA
	Manufacturer's Name or Code Name	JW-19
	Product Name	PAV 3800 FINLESS SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506-06; Missile Level D

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Installation:

System 1:

Wood Wall Framing: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The door is secured to the wood wall framing members through the nail fin with minimum No. 10 screws. Along the head, sill, and side jambs, the fasteners shall be located approximately 3 inches from each end and approximately 12 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing members.

System 2:

Wood Wall Framing: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The door is secured to the wood wall framing members through the frame head and side jambs with minimum No. 10 screws. The fasteners shall be located approximately 6 inches from each end and approximately 16 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wood wall framing.

Concrete, Masonry, and Steel Wall Framing: For attachment to a concrete, masonry, or steel substrate, the door assembly shall be secured using the frame of the door in accordance with Drawing No. NCTL210-3826-1-TDI, titled "Premium Atlantic Sliding Patio Door," sheets 1 through 2 of 2, dated November 08, 2012, and signed, sealed, and dated December 18, 2012, by Alexis Spyrou, P.E.

System 3:

Wood Wall Framing: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The door is secured to the wood wall framing members through the nail fin and frame with minimum No. 10 screws. Along the side jambs, a fastener shall be located in the fin and in the frame approximately $4\frac{1}{2}$ inches from each end and approximately 14 inches on center. Along the head and sill, a fastener shall be located in the fin and in the frame approximately $5\frac{1}{2}$ inches from each end and approximately $13\frac{1}{8}$ inches on center. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wall framing members.

Steel Wall Framing: For attachment to a steel substrate, the door assembly shall be secured using the frame of the door in accordance with Drawing No. NCTL210-3803-1A, titled "Premium Atlantic Vinyl (3800) Impact Sliding Patio Door," sheets 1 through 3 of 3, dated April 28, 2012, and signed, sealed, and dated June 6, 2012, by Alexis Spyrou, P.E.

System 4:

Wood Wall Framing: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The door is secured to the wood wall framing members through the frame with minimum No. 10 screws, using a double screw pattern. Along the side jambs, the fasteners shall be located approximately $5\frac{1}{8}$ inches from each end and approximately $17\frac{5}{16}$ inches on center. Along the head and sill, the fasteners shall be located approximately $6\frac{1}{8}$ inches from each end and approximately $18\frac{5}{8}$ inches on center. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wall framing members.

Concrete, Masonry, and Steel Wall Framing: For attachment to a concrete, masonry, or steel substrate, the door assembly shall be secured using the frame of the door in accordance with Drawing No. NCTL210-3803-1A, titled "Premium Atlantic Vinyl (3800) Impact Sliding Patio Door," sheets 1 through 3 of 3, dated April 28, 2012, and signed, sealed, and dated June 6, 2012, by Alexis Spyrou, P.E.

System 5, 6, 7:

Wood, Concrete, Masonry, and Steel Wall Framing: For attachment to a wood, concrete, masonry, or steel substrate, the door assembly shall be secured using the nail fin or frame of the door in accordance with Drawing No. NCTL210-3851-1A-TDI, titled "Premium Atlantic Vinyl Sliding Patio Door," sheets 1 through 4 of 4, dated February 5, 2013, and signed, sealed, and dated March 26, 2013, by Alexis Spyrou, P.E.

System 8, 9:

Wood, Concrete, Masonry, and Steel Wall Framing: For attachment to a wood, concrete, masonry, or steel substrate, the door assembly shall be secured using the nail fin or frame of the door in accordance with Drawing No. NCTL210-3851-3A-TDI, titled "Premium Atlantic Vinyl Sliding Patio Door XXXX," sheets 1 through 7 of 7, dated February 11, 2013, and signed, sealed, and dated March 26, 2013, by Alexis Spyrou, P.E.

System 10, 11:

Wood, Concrete, Masonry, and Steel Wall Framing: For attachment to a wood, concrete, masonry, or steel substrate, the door assembly shall be secured using the nail fin or frame of the door in accordance with Drawing No. NCTL210-3851-3A-TDI, titled "Premium Atlantic Vinyl Sliding Patio Door OXXX," sheets 1 through 7 of 7, dated February 25, 2013, and signed, sealed, and dated March 26, 2013, by Alexis Spyrou, P.E.

System 12, 13:

Wood, Concrete, Masonry, and Steel Wall Framing: For attachment to a wood, concrete, masonry, or steel substrate, the door assembly shall be secured using the nail fin or frame of the door in accordance with Drawing No. NCTL210-3866-1-TDI, titled "Premium Atlantic Vinyl Sliding Patio Door," sheets 1 through 4 of 4, dated June 03, 2013, and signed, sealed, and dated July 15, 2013, by Alexis Spyrou, P.E.

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.