

## Product Evaluation

DR1133 | 0221

Engineering Services Program

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.

For more information, contact TDI Engineering Services Program at 800-248-6032.

**Evaluation ID:** DR-1133

**Effective Date:** February 1, 2021

**Re-evaluation Date:** February 2025

**Product Name:** Premium Coastal Aluminum Clad Wood Outswing Limited Water Side Hinged French Doors with ADA Sill (Rectangle or Eyebrow), Impact Resistant

**Manufacturer:** Weather Shield Mfg., Inc.  
One Weather Shield Plaza  
Medford, WI 54451  
(715) 748-2100

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	Model 1606 French Door 11 w/ ADA Sill Rectangle	LC-PG60 (38 x 96.5)-LW SHD Missile Level D	+60 / -75 psf
2	Model 1606 French Door 11 w/ ADA Sill Rectangle	LC-PG60 (42 x 118.5)-LW SHD Missile Level D	+60 / -60 psf
3	Model 1606 French Door 21 w/ ADA Sill Rectangle	LC-PG60 (74 x 96.5)-LW SHD Missile Level D	+60 / -75 psf
4	Model 1606 French Door 21 w/ ADA Sill Rectangle	LC-PG60 (83 x 118.5)-LW SHD Missile Level D	+60 / -60 psf
5	Model 1606 French Door 21 w/ ADA Sill Eyebrow	LC-PG60 (74 x 96.5)-LW SHD Missile Level D	+60 / -75 psf

**General Description (continued):**

System	Description	Label Rating	Design Pressure Rating
6	Model 1606 French Door 21 w/ ADA Sill Eyebrow	LC-PG60 (83 x 118.5)-LW SHD Missile Level D	+60 / -60 psf

**Product Dimensions:**

System	Overall Size	Operable Panel Size	Fixed Panel Daylight Opening Size
1	38" x 96-1/2"	36" x 94-15/16"	25-1/2" x 82-7/16"
2	42" x 118-1/2"	40-9/16" x 116-15/16"	30-1/4" x 104-7/16"
3,5	73-3/4" x 96-1/2"	36" x 94-15/16"	25-1/2" x 82-7/16"
4,6	83-1/4" x 118-1/2"	40-9/16" x 116-15/16"	30-1/4" x 104-7/16"

**Components and Hardware:**

- Ashland 5-point lock with top and bottom shoot bolts with one strike at the head and sill: one required, located on the active panel, secure with No. 8 x 2-1/2" flat head screws.
- Ashland manual activated shoot bolt lock with one strike at the head and sill: one required; located on the inactive panel, secure with No. 8 x 5/8" flat head screws.
- Ashland adjustable hinges: four (4) required per panel; secure to the door jamb with four (4) No. 8 x 5/8" screws and to the wall framing with two (2) No. 8 screws and two (2) fasteners as specified in the Installation section.
- Ashland deadbolt lock with strike on inactive panel lock stile: one required
- Hoppe operating handle: one required per panel.

**Product Identification (Certification Label on Door):**

System		
1-2	Certification agency	WDMA
	Manufacturer's name or code name	Weather Shield
	Product name	Model 1606 Premium Coastal Outswing French Door 11 w/ ADA Sill Rect
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E1886-13/E1996-12; Missile Level D
3-4	Certification agency	WDMA
	Manufacturer's name or code name	Weather Shield
	Product name	Model 1606 Premium Coastal Outswing French Door 21 w/ ADA Sill Rect
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E1886-13/E1996-12; Missile Level D

**Product Identification (Certification Label on Door)-continued:**

System		
5-6	Certification agency	WDMA
	Manufacturer's name or code name	Weather Shield
	Product name	Model 1606 Premium Coastal Outswing French Door 21 w/ ADA Sill EB
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E1886-13/E1996-12; Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1-6	Yes	These products satisfy TDI's criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

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

**Installation:**

**Nail Fin:** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing with an integral nailing fin. The nailing fin is secured to the wall framing with No. 6 x 1-5/8" screws. Locate the screws approximately 1-2" from each corner and 8-10" on center. In addition, use No. 10 x 4" PFH screws spaced 12" from each side of the center of the sill strike. Three (3) No. 10 x 4" screws are also used in the sill strike plate. Three (3) No. 10 x 3-1/2" PFH screws are used in the head strike plate. Two (2) No. 10 x 2-1/2" PFH screws are used in each hinge plate. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Screw Through Frame:** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing with No. 10 x 2-1/2" screws spaced approximately 3-4" from each corner and 14-16" on center along the head and side jambs. In addition, use No. 10 x 4" PFH screws spaced 12" from each side of the center of the sill strike. Three (3) No. 10 x 4" screws are also used in the sill strike plate. Three (3) No. 10 x 3-1/2" PFH screws are used in the head strike plate. Two (2) No. 10 x 2-1/2" PFH screws are used in each hinge plate. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Frame-Clip Installation:** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing using 20-gauge x 1-1/2" x 5-1/2" galvanized masonry clips spaced approximately 3-4" from each corner and 10-12" on center along the head and side jambs. Clips were attached to the wall framing using four (4) minimum No. 8 x 3/4" PPH screws and to the wall framing using four (4) minimum No. 6 x 1-5/8"

screws. In addition, use No. 10 x 4" PFH screws spaced 12" from each side of the center of the sill strike. Three (3) No. 10 x 4" screws are also used in the sill strike plate. Three (3) No. 10 x 3-1/2" PFH screws are used in the head strike plate. Two (2) No. 10 x 2-1/2" PFH screws are used in each hinge plate. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.