

Product Evaluation

DR1245 | 0622

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-1245

Effective Date: June 1, 2022

Re-evaluation Date: June 2026

Product Name: Ultra Aluminum Clad Wood Outswing Hinged Entrance French Doors, Impact Resistant

Manufacturer: Kolbe & Kolbe Millwork Co.
1323 South 11th Avenue
Wausau, WI 54401
(715) 842-5666

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Ultra Clad Wood Outswing Entrance French Door	LC-PG65 (75 x 99)-SHD Missile Level D	+65 / -65 psf

Product Dimensions:

System	Overall Size	Operable Panel Size
1	74.88" x 98.59"	35.75" x 96"

Components and Hardware:

- **Hoppe adjustable hinges OR Hager ball bearing hinges:** four required; located on primary hinge stile and frame side; Secured to the door panel with four (4) No. 9 x 2" SMS. Secured to the door jamb with four (4) No. 9 x 2" SMS except as noted in the installation section.
- **Hoppe 5-point lock with 3 strikes on the astragal, 1 strike on the head and sill:** one required, located on the active panel.
- **Hoppe 2-point handle activated shoot bolt system with 1 strike at the head and sill:** one required, located on the passive panel.
- **Deadbolt lock:** one required
- **Operating handle:** one required

Product Identification (Certification Label on Door):

System		
1	Certification agency	WDMA
	Manufacturer's name or code name	Kolbe & Kolbe Millwork Co., Inc.
	Product name	Ultra Outswing Entrance Door
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E1886-09/E1996-05 Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	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.

Installation:

Option 1: The wood wall framing members must be minimum Southern Yellow Pine dimension lumber. The door assembly is secured to the wall framing with Kolbe & Kolbe installation clips (20-gauge x 1-5/8" x 10-1/16"). Locate the clips approximately 16-7/16" from each corner and 16-7/16" on center along the side jambs, and 12-3/4" from each corner and 12-3/14" on center along the head. Secure the clips to door frame with two (2) No. 8 x 3/4" PFH screws and to the wall framing with one (1) No. 8 x 1-3/4" PFH screw with hammer bend application. Secure the sill with No. 10 x 3" screws spaced 13"-14" on center. Three (3) No. 10 x 3" PFH screws located through the sill and head strike plates. At the mullion location, secure two (2) Gemini clips at each end with two (2) No. 8 x 1-1/2" FH screw through the clip and into the mullion, and one (1) No. 8 x 7/8" FH screw into the adjacent frame. Each Gemini clip used as a mullion anchor is secured to the wall framing with two (2) No. 8 screws with face mount application. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Option 2: The wood wall framing members must be minimum Southern Yellow Pine dimension lumber. The door assembly is secured to the wall framing with No. 10 x 2-1/2" PFH screws. Locate the screws approximately 10-15/16" from each corner and on center along the side jambs, and 12-3/4" from each corner and on center along the head. Secure the sill with No. 10 x 3" screws spaced 13"-14" on center. Three (3) No. 10 x 3" PFH screws located through the sill and head strike plates. At the mullion location, secure two (2) Gemini clips at each end with two (2) No. 8 x 1-1/2" FH screw through the clip and into the mullion, and one (1) No. 8 x 7/8" FH screws into the adjacent frame. Each Gemini clip used as a mullion anchor is secured to the wall framing with two (2) No. 8 screws with face mount application. 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.