

Product Evaluation

DR1203 | 1021

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-1203

Effective Date: October 1, 2021

Re-evaluation Date: October 2025

Product Name: Ultra Aluminum Clad Wood Outswing French Doors with ADA Sill, 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 Outswing French Doors w/ ADA Sill	LC-PG65 (74.88 x 98.22)-LW SHD Missile Level D	+65 / -65 psf

Product Dimensions:

System	Overall Size	Operable Panel Size	Fixed Panel Daylight Opening Size
1	74-7/8" x 98-1/4"	35-3/4" x 96"	26-11/16" x 83-7/8"

Components and Hardware:

- **Hoppe 5-point lock with 3 strikes on astragal and top and bottom shoot bolts:** one set required; located on the active panel; Center strike plate secured with three (3) No. 7 x 5/8" PFH SM. Top and bottom strike plates secured with two (2) No. 7 x 5/8" PFH SMS. Head strike plate for shoot bolts secured with two (2) No. 9 x 2" PH FL HD SMS except as noted in the installation section.
- **Hoppe 2-point handle activated shoot bolt lock system with 1 strike at head and sill frame:** one required; located on the passive panel; Head strike for shoot bolts specified in 5-point lock assembly.
- **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 deadbolt lock with strike on astragal:** one required
- **Hoppe operating handle:** two 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 Door w/ ADA Sill
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11 ASTM E1886-13/E1996-14; 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 20-gauge x 10-1/16" x 1-5/8" galvanized steel Kolbe & Kolbe installation clips. Secure the clips to the 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. Locate the clips approximately 19-13/64" from each corner and on center along the side jambs, and 18" from each corner along the head. At the head above the astragal, secure two Gemini clips (same as installation clips) to the door frame with two (2) No. 8 x 3/4" PFH screws and to the wall framing with two (2) No. 8 PFH per clip. No clips at the sill. The sill is secured to the wall framing with No. 10 x 2-1/2" PFH screws spaced approximately 12" on center. No. 10 x 2-1/2" screws are placed through each hinge plate through the side jambs and into the wall framing with two at the top and bottom hinge and one at each middle hinge and one screw through the head strike. 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. Along the side jambs, locate the screws approximately 13-23/32" from each corner and on center. Along the head, locate the screws approximately 18" from each corner. At the head above the astragal, secure two (2) Gemini clips (20-gauge x 10-1/16" x 1-5/8" galvanized steel) to the door frame with two (2) No. 8 x 3/4" PFH screws and to the wall framing with two (2) No. 8 PFH per clip. No clips at the sill. The sill is secured to the wall framing with No. 10 x 2-1/2" PFH screws spaced approximately 12" on center. No. 10 x 2-1/2" screws are placed through each hinge plate through the side jambs and into the wall framing with two (2) at the top and bottom hinge and one (1) at each middle hinge and one (1) screw through the head strike. 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.