

Product Evaluation

DR1047 | 0819

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-1047

Effective Date: August 1, 2019

Re-evaluation Date: August 2023

Product Name: Ultra Aluminum Clad Wood French Inswing Side Hinged Door w/ ADA Sill, Frame Installation, 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
1	Ultra Aluminum Clad Wood French Inswing Side Hinged Door w/ ADA Sill	LC-PG50 74.19 x 98-SHD Missile Level D	+50 / -50 psf

Component Dimensions:

System	Overall Size	Panel Size
1	Inswing: 74.19" x 98"	35.69" x 96"

Components and hardware:

HTL 5-point lock with 3 strikes and top and bottom shoot bolts: 1 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.

HTL 2-point lock handle activated shoot bolt lock system with 1 strike: 1 required; located on the passive panel. Head strike for shoot bolts specified in 5-point lock assembly.

HTL Adjustable hinges: 4 required; located on the primary panel 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.

Hager ball bearing hinges: 4 required; located on the secondary panel 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.

HTL Deadbolt lock: 1 required; located 33" from the bottom rail

HTL operating handle: 2 required; located 35-1/2" from the bottom rail

Sill: Extruded aluminum; ADA compliant; 0.50" high

Product Identification (Certification Agency Label on Door):

System		
1	Certification agency	WDMA
	Manufacturer's name or code name	Kolbe & Kolbe Millwork Co., Inc.
	Product name	Ultra Inswing Door w/ ADA Sill
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-11 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 in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Installation:

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing using minimum No. 10 x 2-1/2" PFH screws. Locate the screws approximately 13-23/32" from each end and on center along the side jambs, 18" from each corner along the head, and 12" on center along the sill. At the head above the astragal location, secure two (2) Gemini clips (10-1/16" x 1-5/8" x 20-gauge galvanized steel) to the door frame and to the wall framing using two (2) minimum No. 8 PFH screws per clip. Minimum No. 10 x 2-1/2" PFH screws were placed through each hinge plate; two (2) at the top and bottom hinge, 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, the IBC, and the Texas Revisions.