

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION DR-533

Effective Date: April 1, 2012  
Reevaluation Date: **April 2014**

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.

**Ultra Aluminum Clad Wood Glazed Outswing French Double Entry Doors with Transom, Non-impact Resistant**, manufactured by

**Kolbe & Kolbe Millwork Co., Inc.**  
1323 South Eleventh Avenue  
Wausau, WI 54401  
(715) 842 - 5666

### General Description:

System	Description	Label Rating	Design Pressure Rating	Hallmark Certification
1	Ultra Aluminum Clad Wood Outswing French Door with Transom	LC-PG65 75x159 – SHD SHD-LC65 75x159	+65/-65	413-H-1093.00 413-H-1093.01 413-H-1093.02 413-H-1093.03 413-H-1093.04 413-H-1093.05 413-H-1093.06 413-H-1093.07 413-H-1093.08 413-H-1093.09

### Component Dimensions:

System	Overall Size	Panel Size	Panel Daylight Opening Size	Transom Frame Size
1	74 $\frac{7}{8}$ " x 158 $\frac{27}{32}$ "	Two: 35 $\frac{13}{16}$ " x 96"	Two: 27" x 84"	74 $\frac{7}{8}$ " x 60"

### Hardware:

- Handle activated 5-point lock with 2 shoot bolts at the head and the sill; One (1) required; Located on the active panel.
- Dead bolt lock (Hoppe HLS9000); One (1) required; Located on the active panel.
- Dead bolt/latch strike plate; One (1) required; Secured with three (2) No. 8 x  $\frac{3}{4}$ " screws; tongue strike secured with two (2) No. 8 x  $\frac{3}{4}$ " screws.

**Hardware (continued):**

- Shoot bolt strike plates; Two (2) required; One at the head and one at the sill; Secured with two (2) No. 10 x 2 ½" screws.
- 2-point handle activated shoot bolt lock system with 1 strike at the head and the sill frame; One (1) required; Located on the passive panel.
- Shoot bolt strike plates; Two (2) required; One at the head and one at the sill. Each secured with two (2) No. 10 x 2 ½" screws.
- Hinges; Four (4) on each panel; Secured to the door slab with four (4) No. 9 x 2" screws. Secured to the door side jamb with four (4) No. 9 x ¾" screws.

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

System	Certification Agency	WDMA
1	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Outswing French Door w/Transom
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05
		AAMA/WDMA/CSA 101/I.S.2/A440-08

**Impact Resistance:**

Impact Resistant	Requirement
No	Impact protective system required when product is installed in areas where windborne debris protection is required

**INSTALLATION INSTRUCTIONS**

**Installation:**

**Option 1:** The door assembly shall be fastened to minimum Southern Yellow Pine lumber. The door assembly is secured to the wall framing using Kolbe & Kolbe metal installation clips. The installation clips (1 ⅝" x 10 ⅛" x 0.04") are secured to the door frame side jambs, head, and sill. The clips are secured to the door frame with two (2) No. 8 x ¾" screws. The clips are secured to the wall framing with one (1) No. 8 x 1 ¾" screw. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing. The spacing of the clips is specified in the table below.

**Installation Clip Spacing:**

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1	Transom Head: 10 ¾" Transom Side Jambs: 12" Door Side Jambs: 16 ⅞"	10 ¾"	See Below	Transom: 12" Door: 16 ⅞"

**Sill:** The sill is secured to the wall framing with minimum No. 10 x 3" screws. The fasteners are located 4 inches from each corner and 15 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

**Option 2:** The door assembly shall be fastened to minimum Southern Yellow Pine lumber. The door assembly is secured to the wall framing using the door frame with minimum No. 10 x 2 ½” screws. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing. The spacing of the fasteners is specified in the table below.

**Fastener Spacing:**

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1	Transom Head: 8” Transom Side Jambs: 8” Door Side Jambs: 11”	7 ¾”	See Below	Transom: 7 ¾” Door: 11”

**Sill:** The sill is secured to the wall framing with minimum No. 10 x 3” screws. The fasteners are located 4 inches from each corner and 15 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

**Hinges (Options 1 and 2):** At the top and bottom hinge for each door, two (2) No. 10 x 2 ½” screws are required. At the two middle hinges for each door, one (1) No. 10 x 2 ½” screw is required.

**Horizontal Mullion (Options 1 and 2):** One end of the mullion is anchored to the wall framing with an anchor plate utilizing four (4) No. 12 screws. The other end of the mullion utilizes a 3S anchor that is secured to the wall framing with an anchor plate and 18 gauge metal anchor clip. The anchor plate and anchor clip are each secured to the wall framing with eight (8) No. 8 screws. The mullion is secured at each end to the anchor plate with a stainless steel bolt.

**Nailing Flange (Options 1 and 2):** The vinyl nailing flange is secured to the wall framing with minimum 12 smooth shank gauge roofing nails spaced 7 inches on center along the head and side jambs.

**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.