

## Product Evaluation

WIN779 | 1122

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:** WIN-779

**Effective Date:** November 1, 2022

**Re-evaluation Date:** October 2026

**Product Name:** Ultra Aluminum Clad Wood Casement Windows, Frame Installation, Impact Resistant

**Manufacturer:** Kolbe & Kolbe Millwork Co., Inc.  
1323 South 11<sup>th</sup> Ave.  
Wausau, WI 54401  
(715) 842-5666

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	Ultra Aluminum Clad Wood Casement Windows	CW-PG65 (36 x 90)-C Missile Level D	+65 / -70 psf
2	Ultra Aluminum Clad Wood Casement Radius Windows	LC-PG65 (36 x 72) – C Missile Level D	+65 / -70 psf

### Product Dimensions:

System	Overall Size	Operable Sash Size
1	36" x 90"	34-1/8" x 88-1/8"
2	36" x 72"	34-1/8" x 70-1/8"

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

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-17 ASTM E1886-13a/E1996-17; Missile Level D
2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Casement Radius
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-17 ASTM E1886-13/E1996-14; Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1, 2	Yes	These products have been tested for windborne debris resistance. They satisfy Missile Level D requirements specified in ASTM E 1996-14a.

**Installation:****System 1 (One of the Following):****Clip Installation:**

The wood wall framing members must be minimum Southern Yellow Pine dimension lumber. The window assembly is secured to the wall framing using Kolbe & Kolbe installation clips (galvanized steel, 20-gauge, 10-1/16" long x 1-5/8" wide). Clips were secured to the window frame using two (2) No. 8 x 3/4" PFH screws and to the wall framing using two (2) No. 8 x 1-3/4" PFH screws. Locate the clips approximately 18" from each corner along the head and sill, and 15" from each corner and on center along the side jambs. 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 Southern Yellow Pine dimension lumber. The window assembly is secured to the wall framing using No. 10 x 2-1/2" screws. Locate the screws approximately 12" from each corner along the head and sill. Along the side jambs, locate the screws approximately 12" from each corner and on center. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**System 2 (One of the Following):****Clip Installation:**

The wood wall framing members must be minimum Southern Yellow Pine dimension lumber. The window assembly is secured to the wall framing using Kolbe & Kolbe installation clips

(galvanized steel, 20-gauge, 10-1/16" long x 1-5/8" wide). Clips were secured to the window frame using two (2) No. 8 x 3/4" PFH screws and to the wall framing using two (2) No. 8 x 1-3/4" PFH screws. Locate the clips approximately 18" from each corner along the head and sill, and 14-13/32" from each corner and on center along the side jambs. 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 Southern Yellow Pine dimension lumber. The window assembly is secured to the wall framing using No. 10 x 2-1/2" screws. Locate the screws approximately 12" from each corner along the head and sill. Along the side jambs, locate the screws approximately 12" from each corner and on center. 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.