

Product Evaluation

WIN2404 | 0919

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-2404

Effective Date: September 1, 2019

Re-evaluation Date: September 2023

Product Name: Ultra Aluminum Clad Wood Pushout Casement Windows, 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 Aluminum Clad Wood Pushout Radius Casement Windows; Quarter Circle	LC-PG65 (36 x 72)-C Missile Level D	+65 / -65 psf
2	Ultra Aluminum Clad Wood Pushout Radius Casement Windows; Segment Head and Quarter Circle	CW-PG65 (36 x 72)-C Missile Level D	+65 / -65 psf
3	Ultra Aluminum Clad Wood Pushout Radius Casement Windows; Half Circle	LC-PG65 (36 x 72)-C Missile Level D	+65 / -65 psf
4	Ultra Aluminum Clad Wood Pushout Radius Casement Windows; Segment Head and Half Circle	CW-PG65 (36 x 72)-C Missile Level D	+65 / -65 psf

General Description (Continued):

System	Description	Label Rating	Design Pressure Rating
5	Ultra Aluminum Clad Wood Pushout Casement Windows	CW-PG65 (36 x 90)-C Missile Level D	+65 / -75 psf

Product Dimensions:

System	Overall Size	Operable Sash Size
1-4	36" x 72"	34.19" x 70.19"
5	36" x 90"	34.13" x 88.13"

Product Identification (Certification Label on Window):

System		
1-4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Push Out Radius Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11 ASTM E1886-05/E1996-09,12 Missile Level D
5	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Push Out Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11 ASTM E1886-05/E1996-09,12 Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1-5	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 (One of the Following for System 5):**Frame-Clip Installation (Systems 1-4)**

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using Kolbe & Kolbe installation clips. Clips must be minimum 10-1/16" long, 1-5/8" wide, 20-gauge, and made of galvanized steel. Secure the clips to the window frame using two minimum No. 8 PFH screws and to the wall framing using one minimum No. 8 x 1-3/4" PFH screw. Locate the clips approximately 14.5" from each corner and on center along the side jambs and 18" on center along the head and sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Frame-Clip Installation (Systems 5)

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

Frame Installation (System 5):

The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using minimum No. 10 x 2-1/2" PFH screws spaced approximately 11-1/4" from each corner and on center along the side jambs and 12" on center along the head and sill. 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.