

## Product Evaluation

WIN2407 | 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-2407

**Effective Date:** September 1, 2019

**Re-evaluation Date:** September 2023

**Product Name:** Ultra Sterling Aluminum Clad Wood Double Hung Windows, Frame Installation, Non-Impact Resistant

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

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	Ultra Sterling Double Hung Windows w/ Aligned Checkrail	LC-PG50 (46 x 80)-H	+50 / -50 psf
2	Ultra Sterling Double Hung Windows w/ Aligned Check rail HP	LC-PG65 (46 x 79.88)-H	+65 / -65 psf
3	Ultra Sterling Double Hung Windows w/ Double Hung Transom	LC-PG65 (46 x 80)-H	+65 / -65 psf
4	Ultra Sterling Double Hung Windows	LC-PG50 (46.50 x 96)-H	+50 / -50 psf

**Product Dimensions:**

System	Overall Size	Top Sash Size	Bottom Sash Size	Transom Sash
1	45-1/2" x 79-7/8"	42-1/4" x 38-3/4"	42-1/4" x 40"	N/A
2	45-1/2" x 79-7/8"	42-1/4" x 38-3/8"	42-1/4" x 40-1/8"	N/A
3	45-1/2" x 109-15/16"	42-1/4" x 38-3/8"	42-1/4" x 40-1/8"	43-7/8" x 27-7/8" DLO: 39" x 23"
4	46-1/2" x 96"	42-1/4" x 46"	42-1/4" x 47-7/8"	N/A

**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 Sterling Double Hung w/ Aligned Checkrail
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Sterling Double Hung w/ Aligned Checkrail HP
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08
3	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Sterling Double Hung w/ Ultra Double Hung Transom
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11
4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Sterling Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08,11,17

**Impact Resistance:**

System	Impact Resistant	Requirement
1-4	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

**Installation (One of the Following):**

**Frame- Clip Installation (System 1):** 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" screw. Locate the clips approximately 16" from each end and on center along the side jambs and 15" from the corners along the head. No clips were used at the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Frame Installation (System 1):** 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 11-1/2" from each end and on center along the side jambs and 15" from the corners along the head. No screws were used at the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Frame- Clip Installation (System 2):** 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" screw. Locate the clips approximately 11.5" from each end and on center along the side jambs and 15" from the corners along the head. No clips were used at the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Frame Installation (System 2):** 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 8-7/8" from each end and on center along the side jambs and 11-3/8" from the corners along the head. No screws were used at the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Frame- Clip Installation (System 3):** 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, 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" screw. Locate the clips approximately 11.5" from each end and on center along the side jambs of the double hung windows. Locate the transom clips approximately 14.75" from the corner of the side jambs and 15.17" from each corner and on center along the head. No clips were used at the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Frame Installation (System 3):** 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 9" from each end and on center along the side jambs of the double hung window. For the transom, locate the screws approximately 14-3/4" from the corners of the side jambs and 11-3/8" from each corner and on center at the head. No screws were used at the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members. Secure to Gemini clips at each end of the horizontal mull to the window frame with minimum No. 8 Tel screws and to the wall framing using two minimum No. 8 PFH screws.

**Frame- Clip Installation (System 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, 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" screw. Locate the clips approximately 12" from each end and on center along the side jambs and 15" from the corners along the head. No clips were used at the sill. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Frame Installation (System 4):** 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 8-3/4" from each end and on center along the side jambs and 11-3/8" from the corners along the head. No screws were used at the 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.