

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

WIN-779

Effective Date: November 1, 2013

Reevaluation Date: **July 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 Operating Casement Windows, Individual, 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 (psf)	Hallmark Certification
1	Ultra Casement Operator; Multi-Point Lock; Missile Level D, Wind Zone 4	CW-PG85 36 x 72 - C C-C85 36 x 72	+85/-85	413-H-1111.00 413-H-1111.01 413-H-1111.02 413-H-1111.03 413-H-1111.04 413-H-1111.05 413-H-1111.06 413-H-1111.07
2	Ultra Casement Operator Multi-Point Lock; Missile Level D, Wind Zone 4	CW-PG85 36 x 72 - C C-C85 36 x 72	+85/-85	413-H-1107.00 413-H-1107.01 413-H-1107.02 413-H-1107.03
3	Ultra Casement Operator; Segment Head; Multi-Point Lock; Missile Level D, Wind Zone 4	CW-PG60 36 x 72 - C C-C60 36 x 72	+60/-60	413-H-1115.04 413-H-1115.05 413-H-1115.06 413-H-1115.07
4	Ultra Casement Operator; Segment Head; Multi-Point Lock; Missile Level D, Wind Zone 4	CW-PG60 36 x 72 - C C-C60 36 x 72	+60/-60	413-H-1122.08 413-H-1122.09 413-H-1122.10 413-H-1122.11

General Description (continued):

System	Description	Label Rating	Design Pressure Rating (psf)	Hallmark Certification
5	Ultra Casement Operator; Quarter Circle; Multi-Point Lock; Missile Level D, Wind Zone 4	CW-PG60 36 x 72 - C C-C60 36 x 72	+60/-60	413-H-1115.00 413-H-1115.01 413-H-1115.02 413-H-1115.03
6	Ultra Casement Operator; Quarter Circle; Multi-Point Lock; Missile Level D, Wind Zone 4	LC-PG60 36 x 72 - C C-C60 36 x 72	+60/-60	413-H-1122.04 413-H-1122.05 413-H-1122.06 413-H-1122.07
7	Ultra Casement Operator; Half Circle; Multi-Point Lock; Missile Level D, Wind Zone 4	CW-PG70 36 x 72 - C C-C70 36 x 72	+70/-70	413-H-1115.08 413-H-1115.09 413-H-1115.10 413-H-1115.11
8	Ultra Casement Operator; Half Circle; Multi-Point Lock; Missile Level D, Wind Zone 4	LC-PG65 36 x 72 - C C-C65 36 x 72	+65/-70	413-H-1122.00 413-H-1122.01 413-H-1122.02 413-H-1122.03
9	Ultra Casement Operator; Multi-Point Lock; Missile Level D; Wind Zone 4	CW-PG65 36x90-C	+65/-70	413-H-1223.00 413-H-1223.01 413-H-1223.02 413-H-1223.03 413-H-1223.04 413-H-1223.05 413-H-1223.06 413-H-1223.07 413-H-1223.08 413-H-1223.09 413-H-1223.10 413-H-1223.11

Product Dimensions:

System	Overall Size	Sash Size	Glass Size
1-8	36" x 72"	34 1/8" x 70 1/8"	30 5/8" x 66 5/8"
9	36" x 90"	34 1/8" x 88 1/8"	30 5/8" x 84 5/8"

Product Identification (Certification Agency Label on Window):

System		
1-8	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Casement Operator; IPD4
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886 / 1996; Missile Level D; Wind Zone 4

Product Identification (Certification Agency Label on Window) - continued:

System		
9	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Casement Operator; IPD3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886 / 1996; Missile Level D; Wind Zone 4

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

INSTALLATION INSTRUCTIONS

General: The assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

Installation:

Option 1: The assembly shall be fastened to minimum Southern Yellow Pine lumber. The assembly is secured to the wall framing using Kolbe & Kolbe metal installation clips. The installation clips (1 $\frac{5}{8}$ " x 10 $\frac{1}{16}$ " x 0.04") are secured to the frame side jambs, head, and sill. The clips are secured to the frame with two (2) No. 8 x $\frac{3}{4}$ " screws. The clips are secured to the wall framing with one (1) No. 8 x 1 $\frac{3}{4}$ " screw. The fasteners shall be long enough to penetrate a minimum of 1 $\frac{1}{2}$ 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	Head and Sill: 18" Side Jambs: 12"	None	None	9"
2	Head and Sill: 12" Side Jambs: 14 $\frac{13}{32}$ "	12"	12"	14 $\frac{13}{32}$ "
3, 4, 5, 7	Head and Sill: 18" Side Jambs: 18"	None	None	18"
6, 8	N/A	N/A	N/A	N/A
9	Head and Sill: 18" Side Jambs: 15"	None	None	15"

Option 2: The assembly shall be fastened to minimum Southern Yellow Pine lumber. The assembly is secured to the wall framing using the frame with minimum No. 10 screws. The fasteners shall be long enough to penetrate a minimum of 1 $\frac{1}{2}$ 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	Head and Sill: 12" Side Jambs: 9"	12"	12"	9"
2	Head and Sill: 12" Side Jambs: 10 ⁵ / ₁₆ "	12"	12"	10 ⁵ / ₁₆ "
3, 5, 7	N/A	N/A	N/A	N/A
4	Head and Sill: 12" Side Jambs: 14 ¹³ / ₃₂ "	12"	12"	14 ¹³ / ₃₂ "
6, 8	Head and Sill: 18" Side Jambs: 12"	None	None	9"
9	Head and Sill: 12" Side Jambs: 11 ¹ / ₄ "	12"	12"	11 ¹ / ₄ "

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.