

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION DR-156

Effective August 1, 2010

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 shall be subject to reevaluation **September 2012**.

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.

**Heritage Manor Wood Outswing Door Sidelites, Impact Resistant**, manufactured by

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

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

The wood outswing door sidelites evaluated in this report are impact resistant. This product evaluation report is for wood outswing door sidelite assemblies based on the following tested constructions:

### General Description:

System	Description	Label Rating	Hallmark Certification
1	Heritage Stationary Manor Outswing Door Sidelite; Narrow Stiles; Impact Performance Missile Level D, Wind Zone 3	FD-C65 50 x 99	413-H-1018.00 413-H-1018.01 413-H-1018.02
2	Heritage Stationary Manor Outswing Door Sidelite; Narrow Stiles; Impact Performance Missile Level D, Wind Zone 4	FD-C65 50 x 99	413-H-1021.00 413-H-1021.01 413-H-1021.02

### Component Dimensions:

System	Overall Size	Door Panel Size	Glass Size
1	50 $\frac{1}{8}$ " x 98 $\frac{19}{32}$ "	47 $\frac{3}{4}$ " x 96"	43 $\frac{1}{2}$ " x 80 $\frac{5}{8}$ "
2	50 $\frac{1}{8}$ " x 98 $\frac{19}{32}$ "	47 $\frac{5}{8}$ " x 96 $\frac{5}{8}$ "	43 $\frac{1}{2}$ " x 80 $\frac{5}{8}$ "

**Glazing Description:**

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	IG-1	GM-1
2	SG-1	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glass construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**

SG-1: Laminated glass units. The laminated glass unit is comprised of two 1/4" annealed glass lites separated by a 0.090" SGP interlayer. The glass thickness in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

IG-1: Sealed insulating glass units. The sealed insulating glass unit is comprised of a laminated glass unit and a 5/32" fully tempered glass lite that are separated by a stainless steel spacer system. The laminated glass unit is comprised of two 5/32" annealed glass lites separated by a 0.090" SGP interlayer. The glass thickness in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

**Glazing Method Key:**

GM-1: The insulating glass units and the laminated glass units are set from the interior onto a bed of silicone sealant. Another interior bed of silicone sealant is applied at the interior edge of the insulating glass unit (laminated glass unit) around the perimeter and a vinyl bracket is installed into the kerfs in the sash. Along the interior, wood glazing stops are secured with brads spaced approximately 1 inch from each end and 7 inches on center.

**Door Frame Construction:** The frame members consist of molded pine. The frame corners are rabbeted, butted, sealed, and secured with screws. **Sill:** A two-piece 6063-T5 extruded aluminum sill assembly is press-fit and sealed with silicone onto the wood sill member. The interior oak thresholds are secured through the frame sill and into the wood test buck with screws. **Brickmould:** The brickmould is secured to the side jambs and head with T-nails spaced 10 inches on center. The brickmould is mitered and secured with screws at the corners. The aluminum sill nosing is secured to the brickmould with screws.

**Panel Construction:** The panel members consist of finger jointed pine. The panel corners are butted, doweled, and glued. The panel is fastened to the frame head, sill, and side jambs with screws.

**Product Identification:** A certification program label (WDMA Hallmark Certified) will be affixed to the sidelite. The certification program label includes the manufacturer's name, performance characteristics, the approved inspection agency (WDMA); and the following applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05 and ASTM E 1886-05 and ASTM E 1996-05. **Higher Negative Design Pressure:** The WDMA Hallmark Certified label indicates the product was tested to a higher negative design pressure. The higher negative design pressure is indicated in the limitations section of this report.

**LIMITATIONS**

**Design pressures (DP):**

System	Overall Width (in.)	Overall Height (in.)	Design Pressure (psf)
1	50 1/8	98 19/32	+65/-70
2	50 1/8	98 19/32	+65/-70

**Impact Resistance:** These door assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I zone** and the **Seaward zone**. The door assemblies passed Missile Level D specified in ASTM E 1996-05. The door assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These door assemblies will not need to be protected with an impact protective system.

**Higher Negative Design Pressure:** The WDMA Hallmark Certified label indicates the product was tested to a higher negative design pressure. The higher negative design pressure is indicated in the limitations section of this report.

**Acceptance of Smaller Assemblies:** Door assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

### INSTALLATION INSTRUCTIONS

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

**Installation:**

**Option 1 (Installation Clips and Screws):** The assembly shall be fastened to minimum Southern Yellow Pine dimension lumber. The assembly is secured to the wall framing using Kolbe & Kolbe metal installation clips and screws. The installation clips (1  $\frac{5}{8}$ " x 6  $\frac{5}{16}$ " x 0.04") are secured to the frame side jambs and head. The clips are secured to the window 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 sill is secured to the wall framing with minimum No. 10 x 3" 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 clips is specified in the table below.

**Installation Clip and Screw Spacing:**

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1	Head: 16 $\frac{3}{4}$ " Side Jambs: 14 $\frac{1}{16}$ " Sill: 4"	16 $\frac{3}{4}$ "	13 $\frac{1}{2}$ "	14 $\frac{1}{16}$ "
2	Head: 16 $\frac{3}{4}$ " Side Jambs: 14 $\frac{1}{16}$ " Sill: 4"	16 $\frac{3}{4}$ "	13 $\frac{1}{2}$ "	14 $\frac{1}{16}$ "

**Option 2 (Screws):** The window assembly shall be fastened to minimum Southern Yellow Pine dimension lumber. The window assembly is secured to the wall framing using minimum No. 10 x 2  $\frac{1}{2}$ " screws at the head and the side jambs and minimum No. 10 x 3" screws at the sill. 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.

**Screw Spacing:**

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1	Head: 12 1/2" Side Jambs: 9 7/8" Sill: 4"	12 1/2"	13 1/2"	9 7/8"
2	Head: 12 1/2" Side Jambs: 9 7/8" Sill: 4"	12 1/2"	13 1/2"	9 7/8"

**Brickmould:** The brickmould shall be secured to the wall framing with minimum 2" long T-nails spaced approximately 10 inches on center along all four sides.

**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.