



Product Evaluation

DR612 | 0616

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: DR-612

Effective Date: June 1, 2016

Re-evaluation Date: January 2020

Product Name: Heritage Wood Gardenaire Sliding Glass Doors, Impact Resistant

Manufacturer: 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	Heritage Wood Gardenaire Sliding Glass Doors	LC-PG45 96 x 98-SD Missile Level D	+45/-50	413-H-1069.09-.13

Product Dimensions:

System	Overall Size	Panel Size	Daylight Opening Size
1	96" x 98-7/16"	48-1/4" x 95-5/8"	40" x 84-1/2"

Product Identification (Certification Agency Label on Door):

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork, Co., Inc.
	Product Name	Heritage Gardenaire
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E 1886; ASTM E 1996; Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	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:

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 (1-5/8" x 10-1/16" x 20-gauge) are secured to the frame. The clips are secured to the frame with two No. 8 x 3/4" PFH screws. The clips are secured to the wall framing with one No. 8 x 1-3/4" PFH screw. The fasteners must be long enough to penetrate a minimum of 1-1/2" 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: 16" Side Jambs: 19-11/16"	16"	See Below	19-11/16"

Sill: The sill is secured to the wall framing with minimum No. 10 x 2-1/2" PPH screws spaced approximately 16" from each corner and 16" on center.

Option 2: The assembly shall be fastened to minimum Southern Yellow Pine lumber. The assembly is secured to the wall framing using the window frame with minimum No. 10 x 2-1/2" PFH screws. The fasteners must be long enough to penetrate a minimum of 1-1/2" 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: 16" Side Jambs: 14-1/16"	16"	See Below	14-1/16"

Sill: The sill is secured to the wall framing with minimum No. 10 x 2-1/2" PPH screws spaced approximately 16" from each corner and 16" on center.

Brickmould (all units): The brickmould of the assembly is secured to the wall framing with minimum 2" long T-nails. The fasteners are spaced approximately 16" from each corner and approximately 16" on center along the perimeter of the window.

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.