



# Product Evaluation

DR194 | 0717

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 must 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-194

**Effective Date:** July 1, 2017

**Re-evaluation Date:** July 2021

**Product Name:** Delta and St. Charles Mahogany, Glazed, Inswing and Outswing, Double Doors with Sidelites, Non-impact Resistant

**Manufacturer:** Distinctive Doors, Inc. (dba Pella Corporation)  
933 Hensley Lane  
Wylie, Texas 75098  
(800) 394-6680

### General Description:

System	Description	Design Pressure Rating
1	Delta and St. Charles Mahogany, Glazed, Outswing, Double Doors with Sidelites, OXXO	+47/-47 psf (Surface bolts on active panel only) Maximum Size Tested: 107-1/4" x 97-1/8"
2	Delta and St. Charles Mahogany, Glazed, Outswing, Double Doors with Sidelites, OXXO	+67/-67 psf (Surface bolts n active and inactive panel) Maximum Size Tested: 107-1/4" x 97-1/8"
3	Delta and St. Charles Mahogany, Glazed, Inswing, Double Doors with Sidelites, OXXO	+47/-47 psf (Surface bolts on active panel only) Maximum Size Tested: 107-1/4" x 98-1/8"
4	Delta and St. Charles Mahogany, Glazed, Inswing, Double Doors with Sidelites, OXXO	+67/-67 psf (Surface bolts n active and inactive panel) Maximum Size Tested: 107-1/4" x 98-1/8"

**Product Dimensions - Doors:**

System	Overall Frame Size	Active Door Panel Size	Passive Door Panel Size with Astragal	Door Panel Glass Daylight Opening Size
1, 2	107-1/4" x 97-1/8"	36" x 96"	36-11/16" x 96"	22-1/8" x 59-3/4"
3, 4	107-1/4" x 98-1/8"	36" x 96"	37-1/8" x 96"	22-1/8" x 59-3/4"

**Product Dimensions - Sidelites:**

System	Overall Frame Size	Sidelite Panel Size	Sidelite Glass Daylight Opening Size
1	15-7/16" x 97-1/8"	13-7/16" x 96-9/16"	Rectangular: 7-3/8" x 59-3/4" TDL: (5) 7-1/2" x 12"
2	15-7/16" x 98-1/8"	13-7/16" x 97"	Rectangular: 7-3/8" x 59-3/4" TDL: (5) 7-1/2" x 12"

**Threshold:**

Outswing (Systems 1 and 2): Imperial Aluminum Bump Sill; 5-1/4" x 1-7/8"  
 Inswing (Systems 3 and 4): Schlegel Hydro Sill; 6" x 1-1/4"

**Hardware:****Hinges:**

- Active and Inactive Door Panel: Three required per door panel. Secured to the door panel with four No. 10 x 1" Phillips flat head screws. Secured to the door side jambs with three No. 10 x 3/4" Phillips flat head screws and one No. 10 x 2" Phillips flat head screw.

**Surface Bolts:**

- Surface Bolts:** Ives No. 454 Surface Bolts (two per door panel), located at the top and bottom of door panels. Secured over a 2-1/4" x 1-1/8" x 6" long alpine block through the door panel with four No. 10-24 hex bolts.
- Surface Bolt Strike Plates:** One at the head and one at the sill. Each secured with two No. 10 x 3" Phillips flat head screws.

**Handset and Lock Assemblies:**

- Kwikset Titan Series or Schlage Ultima Series deadbolt and Handset. One required. Deadbolt secured to the door panel with two No. 10 x 1-1/4" screws. Handset throw secured to the door panel with two No. 8 x 1/4" screws.
- Handset strike plate; one required; secured to the astragal with two No. 8 x 2-1/2" Phillips flat head screws.
- Deadbolt strike plate; one required; secured to the astragal with two No. 8 x 2-1/2" Phillips flat head screws.

**Product Identification (Manufacturer Label on Door):**

System		
1	Manufacturer	Distinctive Doors, Inc.
	Product Name	Delta & St. Charles Mahogany Out-swing Double Doors with Sidelites, Non-Impact Resistant
	Product Configuration	Door with sidelites
	Test Standards	+47 / -47 per TAS 202
	Test Dimensions	107-1/4" x 97-1/8" (DR-194)
2	Manufacturer	Distinctive Doors, Inc.
	Product Name	Delta & St. Charles Mahogany Out-swing Double Doors with Sidelites, Non-Impact Resistant
	Product Configuration	Door with sidelites
	Test Standards	+67 / -67 per TAS 202
	Test Dimensions	107-1/4" x 97-1/8" (DR-194)
3	Manufacturer	Distinctive Doors, Inc.
	Product Name	Delta & St. Charles Mahogany In-swing Double Doors with Sidelites, Non-Impact Resistant
	Product Configuration	Door with sidelites
	Test Standards	+47 / -47 per TAS 202
	Test Dimensions	107-1/4" x 98-1/8" (DR-194)
4	Manufacturer	Distinctive Doors, Inc.
	Product Name	Delta & St. Charles Mahogany In-swing Double Doors with Sidelites, Non-Impact Resistant
	Product Configuration	Door with sidelites
	Test Standards	+67 / -67 per TAS 202
	Test Dimensions	107-1/4" x 98-1/8" (DR-194)

**Impact Resistance:**

System	Impact Resistant	Requirement
1- 4	No	Provide an impact protective system when installing the product in the Inland I and Seaward zones.

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

**Sidelites:** Only use sidelites with doors. Do not install sidelites individually.

**Installation:**

**General:** Install the door assemblies according to the manufacturer's installation instructions and this product evaluation report. The wood-framing members must be minimum Southern Yellow Pine dimension lumber. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

**Sidelite Jambs:** The side jambs must be fastened to the wood-framing members with minimum No. 8 x 2-1/2" Phillips flat head screws located approximately 3" from each corner and 17" on center.

**Sidelite Head and Sill:** The head and sill must be fastened to the wood-framing members with minimum No. 8 x 2-1/2" Phillips flat head screws located approximately 3" and 6" from the outside jamb.

**Door Head and Sill:** The head and sill are secured to the wood wall framing members with minimum No. 8 x 2-1/2" Phillips flat head screws located approximately 6" from each end side jamb, at the midpoint of the door panels, and 6" from the frame centerline. One No. 10 x 3" Phillips flat head screw is located approximately 3" on either side of the mullions.

**Note:** Keep the manufacturer's installation instructions on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.