

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
 Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION
 DR-551

Effective Date: September 1, 2012
 Reevaluation Date: **September 2016**

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.

Model DL418 Full Glass Outswing Hinged Steel Doors with Sidelites and Borrowed Lites, Impact Resistant, manufactured by

Republic Doors and Frames
 155 Republic Drive
 McKenzie, Tennessee 38201
 Telephone: (800) 733-3667

General Description:

System	Description	Design Pressure Rating
1	Model DL418 Full Glass Outswing Hinged Steel Doors with Sidelites and Borrowed Lites	± 50 psf

Product Dimensions:

System			
1	Overall Frame Size	Door Panel Size	Door Panel Daylight Opening Size
	152" x 124"	Two: 48" x 96"	36" x 75"
	Sidelite Maximum Daylight Opening Size	Borrowed Lite Maximum Daylight Opening Size	
	24" x 80"	47" x 24"	

Hardware:

Hinges: Door has three (3) PBB 4 1/2" x 4 1/2" mortise butt-type hinges. The hinges are secured to the door frames with four (4) 1/2" x 10-24 MS screws. The hinges are secured to the door panels with four (4) 1/2" x 10-24 MS screws.

Lock Options (Door Active Panel):

- Dorma CL859D cylindrical lock with Dorma DB050D deadbolt
- Dorma ML 9953 mortise lock
- HCF 9400 surface vertical rod

Lock Options (Inactive Door Panel):

- HCF 9400 surface vertical rod (used with HCF 9400 surface vertical rod on active door)
- Rockwood 585 surface bolts (used with cylindrical lock/deadbolt or mortise lock); Secured to the door with four (4) 10 x 1 1/4" SMS

Hardware (continued):

Strike Plates:

- Strikes for surface bolts; secured with two (2) 10 x 1 1/4" SMS
- Strike plates on the door frame; secured with two (2) 1" x 12-24 MS per strike plate
- Strike plates on the astragals; secured with 1" x 12-24 STMS screws (10 screws for 7'0" door height, 12 screws for 8'0" door height)

Threshold: National Guard Products 803V

Product Identification:

System	Certification Agency	N/A
1	Manufacturer's Name or Code Name	Republic Doors and Frames
	Product Name	Singles or Pairs Glass Kits & Sidelites/Transoms/BL's
	Test Standards	ASTM E 330; ASTM E 1886; ASTM E 1996

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: The wall framing shall be minimum 1,500 psi grout-filled concrete block. The door frame side jambs are secured to the wall framing with minimum 3/16" x 8 3/4" masonry wire anchors and with 3/8" x 5" long lag bolts . A minimum of four (4) wire anchors are required along each side jamb, at each hinge location. A minimum of five (5) bolts are required along each side jamb, spaced a maximum of 24 inches on center. Along the head, a bolt is required 6 inches on either side of door astragal and on either side of the vertical framing between the door and the sidelites. The threshold is secured to the foundation or floor framing with minimum No. 10 screws. The fasteners are located in pre-drilled holes spaced 6 inches from each end and 12 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the foundation or floor framing.

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.