

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION
DR-552

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, Flush or 2-Panel, Inswing or Outswing, Hinged Steel Single Doors, 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, Flush or 2-Panel, Inswing or Outswing, Hinged Steel Single Doors; X	± 80 psf

Product Dimensions:

System	Overall Frame Size	Panel Size	Daylight Opening Size
1	40" x 86"	36" x 84"	N/A

Hardware:

Hinges: Door has three (3) PBB 4 ½" x 4 ½" mortise butt-type hinges. The hinges are secured to the door frames with four (4) ½" x 10-24 MS screws. The hinges are secured to the door panels with four (4) ½" x 10-24 MS screws.

Lock Options:

Dorma CL853D cylindrical lock
Dorma CL753D cylindrical lock with Dorma DB660D deadbolt
Dorma ML 9000 mortise lock EL/EU
SAFLOK MT mortise lock

Strike Plates:

- Strike plates on the door frame; secured with two (2) 1" x 12-24 MS screws per strike plate.

Threshold: National Guard Products 803V

Product Identification:

System		
1	Certification Agency	N/A
	Manufacturer's Name or Code Name	Republic Doors and Frames
	Product Name	Flush Singles
	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 Southern Yellow Pine dimension lumber or minimum 1,500 psi grout-filled concrete block. The door frame side jambs are secured to the wall framing with minimum $\frac{3}{8}$ " x 5" long lag bolts. The fasteners shall be long enough to penetrate a minimum of 1 $\frac{1}{2}$ inches into wood substrates and minimum 2 $\frac{3}{8}$ inches into concrete block substrates. A minimum of three (3) anchors are required along each side jamb, spaced 4 inches, 48 inches, and 79 inches from the sill. 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 $\frac{1}{2}$ 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.