

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION DR-468

Effective Date: September 1, 2013
Reevaluation Date: **June 2017**

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.

Chem-Pruf FRP Pharmaceutical Outswing Double Doors, Impact Resistant manufactured by

Chem-Pruf Door Co., Ltd.
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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

Chem-Pruf corrosion resistant doors are manufactured of fiberglass reinforced polymer (FRP) door faces permanently bonded to a one-piece stile and rail system. The interior cavity of the door is filled with a polyurethane honey comb. This product evaluation report is for fiberglass pharmaceutical outswing double doors based on the following tested construction:

General Description:

System	Description	Design Pressure Rating
1	Fiberglass Pharmaceutical Outswing Double Doors; (XX)	±50 psf

Product Dimensions:

System	Overall Size	Door Panel Size	Glazing Size
1	76" x 86"	Two: 35 ³ / ₄ " x 83 ¹ / ₂ "	24" x 30"

Glazing Description:

System	Glass Construction	Glazing Method
1	SG-1	GM-1

Note: ¹ See the "Glass Description Key" for the glazing construction.

² See the "Glazing Method Key" for the glazing method description.

Glass Description Key:

SG-1: Laminated glass units. The laminated glass units are comprised of two double strength ($\frac{1}{8}$ " annealed glass lites separated by a 0.090" PVB interlayer.

Glazing Method Description Key:

GM-1: The laminated glass units are interior glazed with glazing tape and silicone. The laminated glass units are secured in place with a fiberglass retainer and glazing tape and silicone.

Frame Construction: The door frame is constructed of fiberglass reinforced polymer composite frame. The frame corners are butt jointed and mechanically fastened.

Panel Construction: The door leaf is manufactured of fiberglass reinforced polymer (FRP) door faces permanently bonded to a one-piece stile and rail system. The interior cavity of the door is filled with a polyurethane honey comb core material.

Reinforcements: The door panel is reinforced with interior fiberglass blocking in accordance with Chem-Pruf drawing STD 3-29A, dated March 18, 2003. High compressive polypropylene core material is used as reinforcement for the kickplate, locksets, and the push-pulls. A 2" x 6" x 24" fiberglass reinforcement is used for the panic devices.

Hardware:

- Sargent panic bar 8813; One (1) required; Located $43\frac{7}{8}$ inches up from the top edge of the door.
- Keeper plate; One (1) required; Secured to the interior face of the inactive panel with two (2) No. 12 x $1\frac{1}{4}$ " stainless steel screws.
- Ives FB 458 Flush bolts, 12" US26D; Two (2) required; Centered on the lateral edges of the interior active panel at the top and the bottom. Secured with four (4) $\frac{3}{16}$ " x $1\frac{1}{4}$ " long stainless steel screws.
- Chem-Pruf 304 4" butt hinges; Three (3) required per door; Secured to the door panel with three (3) No. 12 x 3" stainless steel screws and one (1) No. 14 x $3\frac{3}{4}$ " stainless steel screw. Secured to the door frame side jambs with three (3) No. 12 x $1\frac{1}{4}$ " stainless steel screws and one (1) No. 14 x $3\frac{3}{4}$ " long stainless steel screw.
- Astragal; One (1) required; Fiberglass, fastened to the face of the panel with No. 10 x 1" screws.
- Kickplate; Two (2) required; Metal, 34" wide x 8" high, fastened with two rows of No. 6 x $\frac{5}{8}$ " screws.

Product Identification: A label will be affixed to the door units. The label shall include the manufacturer's name, the design pressure rating, ASTM E 330, ASTM E 1886, and ASTM E 1996.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	76	86	± 50

Impact Resistant: This door assembly satisfies the Texas Department of Insurance's criteria for protection from windborne debris in both the **Inland I zone** and the **Seaward zone**. This door assembly passed an impact standard equivalent to Missile Level D specified in ASTM E 1996-02. 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.

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

INSTALLATION INSTRUCTIONS

General: The door assemblies shall be installed according to the manufacturer's installation instructions and this product evaluation.

Wall Framing: The wood framing members shall be minimum Southern Pine dimension lumber.

Installation:

- Jamb:** No. 14 x 4" long stainless steel sheet metal screws; Located approximately 3 inches from each end and 6 additional screws equally spaced along the length of the side jamb.
- Head:** No. 14 x 4" long stainless steel sheet metal screws; Located approximately 3 inches from each end and 6 additional screws equally spaced along the length of the head.
- Sill:** No. 10 x 2" long stainless steel sheet metal screws; Located approximately 6 inches from each end and 4 additional screws equally spaced along the length of the sill.
- Hinges:** Hinges to door leaf: four (4) No. 12 x 3" long stainless steel sheet metal screws in each hinge.
Hinges to door frame: four (4) No. 12 x 1 1/4" long stainless steel sheet metal screws for the screws in each hinge.

The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wood wall framing. For masonry and concrete applications, a 1/4" diameter Crete-Flex SS4 410 stainless steel masonry anchor, 3 3/4" long may be substituted for the fasteners specified above. The fasteners shall penetrate a minimum of 1 1/4 inches into the concrete.

Note: The manufacturer's installation instructions shall be available on the job site during installation. Fasteners shall be corrosion resistant as specified in the International Residential Code (IRC); the International Building Code (IBC); and the Texas Revisions.