TDI | Texas Department of Insurance

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Product Evaluation

DR326 | 0219 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-326

Effective Date: February 1, 2019
Re-evaluation Date: February 2023

Product Name: Model 707 Commercial Flush and Glazed Steel Outswing Side Hinged Doors, Impact Resistant

Manufacturer: Fleming Door Products
101 Ashbridge Circle
Woodbridge, Ontario, Canada L4L 3R5
(416) 749-2111

General Description:

System	Description	Design Pressure Rating
1	16-gauge Steel Outswing Hinged Single Doors; X	+70 / -70 psf
2	16-gauge Steel Outswing Hinged Double Doors; XX	+70 / -70 psf

Product Dimensions:

System	Overall Size	Operable Panel Size	Glass Daylight Opening Size
1	52" x 98" x 5-3/4"	47-3/4" x 95-1/2" x 1-3/4"	34-1/2" x 44-1/2"
2	100" x 98" x 5-3/4"	Active / Passive: 47-3/4" x 95-1/2" x 1-3/4"	34"-1/2" x 44-1/2"

Hardware:
Hinges: Four 4-1/2" x 4-1/2" x 0.134" steel butt hinges per door; secure to the door panel and to frame with four No. 12 x 24 screws.

Exit Devices (One of the Following):

- **Sargent HC8800 Rim Exit Device:** Required on each door panel with HC 980 mullion on double doors; secure strike plates with two 10-24 x 3/4" oval head steel machine screws and two 10-24 x 3/4" round head steel machine screws.

- **Yale 7150 F (WS) Square Bolt Rim Exit Device:** Required on each door panel; secure strike plates to door frame or to the Yale M-100 F (WS) mullion (for double doors) with two 10-24 x 3/4" flat head steel machine screws and two 10-24 x 1-1/2" flat head steel machine screws.

- **Yale 7170(F) WS Surface Vertical Rod Devices:** required on each door panel; secure strike plates with four 10-24 x 3/4" round head steel machine screws at the frame head and two 1/4-20 x 1/2" steel machine screws with expansion shell anchors at the threshold.

- **Sargent MD8610 Concealed Vertical Rod Exit Device:** Required on each door panel; secure strike plates with two 10-24 x 3/4" round head steel machine screws at the frame head and two 1/4-20 x 1" steel machine screws and expansion shell anchors at the threshold.

Threshold: Pemko 2005

Product Identification (Certification Agency Label on Door):

System		
1, 2	Certification Agency	Intertek or Underwriters Laboratories
	Manufacturer's Name or Code Name	Curries
	Product Name	N/A
	Test Standards	TAS-201, TAS-202, TAS-203

Impact Resistance:

System	Impact Resistant	Requirement
1, 2	Yes	These products satisfy TDI's criteria for protection from windborne debris. Install the assemblies at any height on the structure that does not exceed the design pressure rating for the assemblies.

Installation:

- **Frame Anchored with Masonry Tee Anchors (16-gauge):** Attach frame using a minimum of five anchors per jamb. Locate anchors a maximum of 12" from the sill and spaced a maximum of 24" on center along the jamb. Secure frame head using two optional anchors in each head within 6" of the opening centerline.

Installation (Continued):

- **Welded Pipe Spacer (masonry or concrete):** Attach frame using a minimum of four anchors in each jamb for openings 80" to 90" in height, or five anchors for openings greater than 90". Locate fasteners a maximum of 12" from the sill and spaced a maximum of 19" on center along the jamb. Secure frame head using two optional anchors in each head within 6" of the opening centerline. When attaching to concrete or masonry, use 3/8" diameter Powers Power-Bolt anchors or 3/8" diameter Hilti Kwik-Bolt III anchors with a minimum 2-1/2" embedment depth into the masonry or concrete.

- **Welded Pipe Spacer (wood stud):** Attach frame using a minimum of four anchors in each jamb for openings 80" to 88" in height or five anchors for opening heights greater than 88". Locate fasteners a maximum of 12" from the sill and spaced a maximum of 19" on center along the jamb. Secure frame head using two optional anchors in each head within 6" of the opening centerline. When attaching to wood framing, anchors must be 3/8" diameter x 5" long lag screws with a minimum of 3" embedment into Southern Yellow Pine (G≥0.55) wood framing.

- **Wood or Steel Stud Slip-in Anchors:** Attach frame using a minimum of four anchors in each jamb for openings 80" to 88" in height, or five anchors for opening heights greater than 88". Weld frame anchors to the frame. Locate fasteners a maximum of 12" from the sill and spaced a maximum of 19" on center along the jamb. Secure frame head using two optional anchors in each head within 6" of the opening centerline. Each anchor has a minimum of four fasteners. When attaching to wood or steel stud framing, fasteners must be a minimum of No. 8 x 1" long drywall screws. Screws must have a minimum 1" embedment depth into 18-gauge steel studs or Southern Yellow Pine (G≥0.55) wood framing.

- If a mullion is required, then use two anchors to affix the mullion to the sill or floor. Apply appropriate fastener as stated in applications above.

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.