

Product Evaluation

DR789 | 1022

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-789

Effective Date: October 1, 2022

Re-evaluation Date: October 2026

Product Name: Series GPX Fire Rated Aluminum Outswing Side Hinged Glazed Door, Impact Resistant

Manufacturer: SAFTIFIRST
100 North Hill Drive, Suite 12
Brisbane, CA 94005-1010
(415) 230-6740

General Description:

The GPX Series Doors are aluminum frame glazed side hinged outswing doors used for commercial curtain wall and storefront installations. This evaluation report includes the following door assemblies:

- Double Door Assembly (XX)
- Single Door Assembly (X)
- Outswing Door with or without Transom and Sidelites (Single or Double Door)

Acceptance of Combined Assemblies: If the doors are used with either a curtain wall or storefront system, then the curtain wall or storefront system must be listed in separate TDI evaluation reports.

Product Identification: A SAFTIFIRST label will be affixed to the door assembly. The label includes the manufacturer's name (SAFTIFIRST); the product name (GPX Fire Rated Outswing Door); that the design pressure and size are per drawing W15-86; and that the product complies with the following standards: TAS 201, 202, 203; Large Missile Impact Rated.

Compliance: The door assemblies passed test criteria equivalent to ASTM E330-14, ASTM E1886-13a, and ASTM E1996-14a referenced in the 2018 IRC and 2018 IBC.

Limitations:

Design Drawings:

Door assemblies must comply and be installed in accordance with the following design drawing:

Drawing No. W15-86, "GPX Fire Rated Outswing Door (L.M.I)" Sheets 1 thru 9 of 9, dated November 3, 2015; revision A dated September 28, 2021; signed and sealed by Jalal Farooq, P.E on October 11, 2021. This evaluation report refers to the stated drawings as the approved drawings.

Fabrication and Assembly: GPX Fire Rated Outswing Doors are fabricated in the factory. The doors are assembled and glazed at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

Design Pressure (DP):

- The door assemblies have a design pressure rating of +80 psf / -80 psf. Refer to approved drawing for specific design pressure requirements.
- If the doors are used with either a curtain wall or storefront system, then the design pressure rating of the complete assembly will be the lesser of the allowable design pressure rating for the curtain wall or storefront system and the doors in this evaluation report.

Hardware: Hardware requirements are specified on the approved drawings. The allowable design pressure may vary as a function of the hardware option used. Refer to the approved drawings for allowable hardware options and specific design pressure requirements.

Impact Resistance:

The door systems have been tested for windborne debris resistance. These assembly passed the equivalent of Missile Level D specified in ASTM E1996-14a. Install the assembly at any height on the structure that does not exceed the assembly's design pressure rating. For essential facilities, the assembly may not be installed below a height of 30 feet in Wind Zone 3 and may be installed at all heights in Wind Zone 2 as defined in ASTM E 1996-14a.

Installation Instructions:

General: Prepare and install the assembly in accordance with the GPX Fire Rated Outswing Door Installation Instructions and the approved drawings specified in this evaluation report. Detailed installation instructions are available from SAFTI/FIRST.

Installation:

Wall Framing Construction: The door assemblies may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- concrete (minimum compressive strength: 3,000 psi)
- grout-filled concrete masonry unit (minimum compressive strength: 2,000 psi)
- hollow concrete masonry unit (minimum compressive strength: 2,000 psi)
- steel (minimum 1/8", Fy = 36 ksi).
- aluminum (minimum 1/8" thick, 6063-T5)

Fastener Requirements:

- Refer to the approved drawings for the anchor layout and notes.
- Refer to the approved drawings for the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

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