

Product Evaluation

SHU231 | 0719

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: SHU-231

Effective Date: June 1, 2019

Revised: July 1, 2019

Re-evaluation Date: September 2020

Product Name: QMI Impact Protection Screens 28FX (Fixed Frame) and 28 OP/Egress (Operable Frame)

Manufacturer: QMI
1661 Glenlake Ave.
Itasca, IL 60143
(800) 446-2500

General Description:

The screen fabric is 304 stainless steel. The strands are 0.028" (optional performance grade of 0.032") in diameter and are 12 strands by 12 strands per square inch. The screen is attached to the screen panel by an extruded aluminum "U" sharks tooth retainer bar measuring 1.0" x 0.487" high.

Limitations:

Wall Construction: The impact screen may be mounted to the following types of wall framing:

- Pre-cast concrete, cast-in-place concrete
- Grout-filled concrete masonry units (CMU), C-90, Grade N, Type 1 (or greater)
- Wood (minimum Southern Yellow Pine dimension lumber)

Design Responsibility: The design and anchorage of concrete, masonry, and wood substrates to properly transfer all loads to the structure is the responsibility of the engineer of record.

Separation Distance from Glazed Openings: The screen must be separated a minimum of 4" from the glazed opening at its closest point.

Design Drawings:

Series 28FX Stormsafe Screen – Fixed Impact Screen: The Series 28FX Fixed Impact Screen must be installed in accordance with drawing No. QMI1003; Sheets 1 of 5 thru 5; dated December 18, 2017; signed, sealed, and dated February 8, 2019 by Robert James Amoruso. The referenced drawing will be referred to as the approved drawing.

Series 28 OP/EGRESS - Operable Impact Screen: The Series 28OP Fixed Impact Screen must be installed in accordance with drawing No. QMI1004; Sheets 1 of 5 thru 5; dated December 18, 2017; signed, sealed, and dated February 8, 2019 by Robert James Amoruso. The referenced drawing will be referred to as the approved drawing.

Product Identification (Certification Label on Screen):

System		
Series 28 OP/EGRESS - Operable Impact Screen	Certification agency	NAMI
	Manufacturer's name or code name	QMI
	Product name	StormSafe Screen-Operable Aluminum Impact Screen
	Test standards	ASTM E 330-02, ASTM E 1886-02/04, ASTM E 1996-02/04; Missile Level D
Series 28FX Stormsafe Screen – Fixed Impact Screen	Certification agency	NAMI
	Manufacturer's name or code name	QMI
	Product name	StormSafe Screen-Fixed Aluminum Impact Screen
	Test standards	ASTM E 330-02, ASTM E 1886-02/04, ASTM E 1996-02/04; Missile Level D

Anchorage: The shutter assembly must be mounted to the wall framing in accordance with the mounting details on the approved drawings.

Impact Resistance: This shutter assembly satisfies the Texas Department of Insurance's criteria for protection from windborne debris in both the **Inland I zone** and the **Seaward zone**. The shutter assemblies may be installed at any height on the structure if the design pressure rating for the assemblies is not exceeded.

Allowable Design Pressure:

Model	Net panel coverage	Design Pressure
Series 28FX StormSafe	61.5" x 144.5"	±80 psf
Series 28 OP/Egress	64.5" x 147.5"	+47/-53 psf

Installation Instructions:

General: The shutter assembly must be installed in accordance with this evaluation report and the approved drawings referenced in this product evaluation report.

Mounting Conditions: The shutters must be direct mounted in accordance with the mounting details shown on the approved drawings. The shutter panels may be mounted vertically or horizontally using the applicable anchoring details on the approved drawings.

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