



Product Evaluation

SHU215 | 0118

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-215

Effective Date: January 1, 2018

Re-evaluation Date: January 2022

Product Name: 26-Gauge Steel Corrugated Storm Panels

Manufacturer: Windstorm Window Panels of Texas
3001 Maryland Avenue
Dickinson, TX
(281) 337-4466

General Description:

The 26-gauge storm panels are 0.025" thick and are composed of ASTM A653 structural steel, G60 galvanized coating, with a minimum $F_y = 36$ ksi. The panels are rolled into two ribbed 2" x 12" sections with nominal coverage of 12" per panel. The panels utilize a 5/16" x 1-7/16" vertical slot pattern at each end of the panels for the location of the fasteners to direct mount the panels. The storm panels in this report are not a permanently mounted shutter system.

The storm panels may be mounted to exterior walls clad with various types of exterior siding or veneer, such as wood panel siding, stucco, vinyl siding, or brick veneer. The fasteners for the panels must penetrate through the exterior cladding or veneer and into the wood wall framing.

Design Drawings:

The steel storm panels must be installed in accordance with the drawing entitled "Windstorm Window Panels of Texas 26GA Steel Shutter Storm Panel System," drawing number 13-WINDS-01, sheet 1 of 1, dated March 13, 2013, signed and sealed by Frank L. Bennardo, P.E. on March 27, 2013. The design drawings will be referred to as "approved drawings" in this evaluation report. A copy of the approved drawings must be available at the job site.

Limitations:

Wall Construction: The steel storm panels must be mounted to wood stud wall framing construction (minimum Southern Yellow Pine, specific gravity = 0.55 minimum). Refer to the approved drawings for the mounting options.

Anchors: The steel storm panels are mounted with 1/4" x 8" stainless steel 304 series lag screws that incorporate wood threads on one end and 1/4"-20 threads on the other. A wing nut washer is used to secure the panel to the lag screw.

Maximum Allowable Design Wind Pressure: ±60 psf

Maximum Allowable Panel Span: 86"

Separation Distance from Glazing: The shutter is considered a non-porous impact protective system. When installed in non-essential facilities as defined in International Building Code, there is no minimum separation from glass required.

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 passed an impact standard equivalent to Missile Level D specified in ASTM E 1996-04. The shutter assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Product Identification: Each panel must bear a label that identifies the manufacturer, the name of the shutter product, and compliance with ASTM E 330, ASTM E 1886, and ASTM E 1996.

Installation:

General Installation Requirements: All shutters must be installed in accordance with the approved drawings and 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 installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.