

Product Evaluation

SHU230 | 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: SHU-230

Effective Date: February 1, 2019

Re-evaluation Date: February 2023

Product Name: Eyewall Armor 6.8 Streamline Accordion Shutters

Manufacturer: Town & Country Industries
400 West McNabb Road
Fort Lauderdale, FL 33309
(561) 512-9702

General Description:

The accordion shutters are manufactured of extruded aluminum and are assembled using 6.8 extruded aluminum interlocking slats/blades with dimensions of 4.84" x 0.44". The shutter system features an offset screw boss that can be easily lubricated. The offset screw boss isolates the assembly screw from the hinging of the shutter blades to reduce corrosion.

The shutters may be wall mounted, interior mounted, or built-out mounted. The shutters must be installed in accordance with design drawings referenced in this evaluation report.

Limitations:

Design Drawings:

"Eyewall Armor 6.8 Streamline Shutter," manufactured by Town and Country Industries, Drawing No. 15-2339, Sheets 1-11 of 11, dated January 24, 2018, signed, sealed, and dated January 03, 2019 by Frank L. Bennardo, P.E. The stated drawings will be referred to as approved drawings in this report.

Accordion Configurations: The accordion shutters are installed as single span units.

Mounting Conditions: The accordion shutters may be wall mounted, interior mounted, or built-out mounted. Refer to the approved drawings for specific mounting conditions.

Wall Construction: The accordion shutters may be mounted to the following types of wall framing:

- Pre-cast concrete, cast-in-place concrete (minimum compressive strength required specified in drawings)
- Grout-filled concrete masonry units (CMU)
- Hollow concrete masonry units (CMU).
- Wood (minimum Spruce-Pine-Fir dimension lumber, S.G. = 0.42).

Allowable Design Pressure: The allowable design pressure is a function of slat span, mounting condition, end strip, schedule, anchors, and substrate. Refer to the approved drawings for the allowable design pressure. The maximum allowable design pressure is +/-100.0 psf.

Maximum Shutter Span: The maximum allowable shutter span is 144". Refer to the approved drawings for allowable shutter spans for specific configurations.

Maximum Width: The allowable shutter width is unlimited.

Minimum Separation from Glass: The minimum glazing separation as a function of shutter span is specified in Table 2 on Sheet 1 of 11 of the approved drawing. **NOTE:** The minimum glazing separation is only required when the accordion shutters are used in essential facilities as defined in ASCE 7 except as noted in Table 2 of the approved drawing.

Product Identification: The accordion shutter assemblies must have a manufacturer-produced label that indicates the manufacturer: Town & Country Industries, Ft. Lauderdale, FL; the name of the product: 6.8/Streamline Shutter; the missile level: Missile Level D; and compliance with ASTM E 330, ASTM E 1886, and ASTM E 1996.

Impact Resistance: This accordion 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 assembly passed Missile Level D specified in ASTM E 1996-09. The assembly may be installed at any height on the structure as long as the design pressure rating for the assembly is not exceeded.

Installation Instructions:

General Installation Requirements: The accordion shutters must be installed in accordance with the manufacturer's installation instructions, the approved drawings, and this product evaluation report. Copies of the approved drawings must be available on the jobsite during inspection of the shutter assembly.

Anchorage: The accordion shutters must be anchored to the structure in accordance with the approved drawings. Anchorage of the accordion shutters to concrete, grout-filled CMU, hollow CMU, and wood wall framing must follow the mounting conditions and fastener options specified 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.