



# Product Evaluation

SH-180 | 1214

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:** SH-180

**Effective Date:** December 1, 2014

**Re-evaluation Date:** February 2017

**Product Name:** Regency Extruded Aluminum Accordion Shutters

**Manufacturer:** Jupiter Industries LLC  
12311 Crystal Commerce Loop  
Unit No. 1  
Ft. Myers, Florida 33966  
Telephone: (239) 225-9041

## General:

- **Product Description:** The Regency extruded aluminum accordion shutters are manufactured from 6063-T6 aluminum alloy. The accordion shutters are designed as a permanently mounted impact protective system. The extruded aluminum slats measure 4.571" in width with a typical wall thickness of 0.049". The floater slat blade measures 4.638" in width with a typical wall thickness of 0.049" es.
- **Mounting Conditions:** The shutters may be wall mounted, inside mounted, face mounted, build-out, or any combination thereof. Refer to the approved drawings for the mounting conditions.
- **Wall Construction:** Mount the head and sill tracks to pre-cast concrete, cast-in-place concrete, grout-filled concrete masonry units (CMU), wood, steel, or aluminum. Concrete must be minimum 3,000 psi. CMU shall be minimum 1,500 psi. Use a minimum Southern Pine dimension lumber Wood. The steel must be A36 and minimum 1/8" thick. The aluminum must be minimum 6063-T5 and minimum 1/8" thick.
- **Product Identification:** The accordion shutters shall have a NAMI label that identifies the product manufacturer, the name of the product, and compliance with ASTM E-330, TAS-201, TAS-202, and TAS-203.

## Limitations:

- **Design Drawings:** Install the accordion shutters in accordance with Drawing No. 13-04, titled "Jupiter Industries, LLC 'Regency' Aluminum Accordion Shutter," sheets 1 through 7 of 7, dated October 3, 2013, signed and sealed by Javad Ahmad, P.E. on October 21, 2013. This evaluation report refers to the stated drawings as the approved drawings.

**Limitations (continued):**

- **Allowable Design Pressure:** The allowable design pressure varies based on the slat span, fasteners used, wall construction, and the mounting condition. The maximum allowable design pressure must not exceed  $\pm 200$  psf. Refer to the approved drawings for allowable design pressures.
- **Minimum Separation From Glass:** Sheet 1 of 7 of the approved drawings specifies the minimum separation from the glass.
- **Maximum Allowable Slat Span:** The maximum slat span is 150" at a design pressure of 55 psf.
- **Impact Resistance:** These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

**Installation:**

- **General Installation Instructions:** Install shutters in accordance with the approved drawings. During a high wind event, lock and close the shutters.
- **Anchorage:** Anchor the head and sill to the substrate material using the mounting details on Sheets 3 thru 6, of the approved drawings. Anchor the left and right side of the accordion shutter (end slats to the wall framing as shown on Sheet 5 of the approved drawings).

For attachment to pre-cast concrete, cast-in-place concrete or CMU, anchors must have a minimum edge distance as specified in the approved drawings. The minimum fastener penetration into pre-cast concrete and cast-in-place concrete shall be 1.75". The minimum fastener penetration into CMU must be 1.25". The minimum fastener penetration into wood wall framing must be 1.5". Refer to the anchor schedule and notes in the approved drawings to verify proper fastener embedment and spacing for each type of fastener.

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