



# Product Evaluation

SHU192 | 1114

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-192

**Effective Date:** November 1, 2014

**Re-evaluation Date:** September 2017

**Product Name:** Impact Resistant Rolling Doors Wind-Rated, Residential

**Manufacturer:** Jupiter Industries LLC  
12311 Crystal Commerce Loop Unit 1  
Fort Meyers, FL 33966  
(239) 225-9041

## General Description:

The impact resistant rolling doors are shutters that are designed as a permanently mounted impact protective system. The impact resistant rolling doors have extruded aluminum slats that measure 2.86" in width, 0.59" in depth, with a typical wall thickness of 0.050". The slats are constructed as indicated in the approved drawings using extruded aluminum alloy 6063-T6. The bottom slat is manufactured from extruded aluminum and measures 2.56" in width, 0.39" in depth, with a typical wall thickness of 0.040". The overall width of the assembly can be increased using mullions.

## Limitations:

**Design Drawings:** Install the rolling doors in accordance with "Impact Resistant Rolling Door Large & Small Missile Impacted Rated", by Jupiter Industries, LLC, Drawing No. 13-197, Sheets 1–11 of 11, dated October 18, 2013, with each sheet signed, sealed, and dated by Pedro Figueiredo, P.E. on November 13, 2013. This report refers to the stated drawings as the approved drawings. A copy of the approved drawings shall be available at the job site.

**Shutter Configurations:** Install the rolling doors as a single span unit or as multi-span assemblies with the use of mullions.

**Mounting Conditions:** Mount the rolling doors, inset mounted, built-out mounted, mullion mounted, or any combination thereof. Refer to the approved drawings for the mounting conditions.

**Wall Construction:** Mount the rolling doors to the following types of wall framing:

- Pre-cast concrete, cast-in-place concrete (minimum 2,899 psi)
- Grout-filled concrete masonry units (CMU), C-90
- Wood (minimum Southern Yellow Pine dimension lumber)
- Steel, minimum " thick, A36

**Allowable Design Pressure:** The allowable design pressure is a function of the slat span, anchor spacing, mounting condition, and the minimum separation from the glass. Refer to the approved drawings for the allowable design pressure. The maximum allowable design pressure is  $\pm 80$  psf.

**Anchorage:** Anchor the rolling doors to the structure in accordance with the approved drawings. Anchorage of the rolling doors to concrete, grout-filled concrete masonry units (CMU), wood framing, or steel shall follow the mounting details on the drawings and the fasteners specified in the mounting details.

**Maximum Slat Span:** The maximum allowable slat span for single span multi-span assemblies is specified on the approved drawings. The maximum allowable slat span (track-to-track distance) is 196-3/4".

**Rolling Door Height:** The allowable rolling door height varies. The maximum allowable rolling door height is 324". Refer to the approved drawings for the allowable rolling door height for single span and multi-span assemblies.

**Minimum Separation from Glass:** The minimum separation distance to the glass is detailed on Sheet 1 of 11, of the approved drawings. Refer to General Note 3 on Sheet 1 of 11 of the approved drawings for glass separation requirements.

**Product Identification:** The rolling door assemblies shall have a label that identifies the manufacturer, the name of the product, compliance with ASTM E 330, and compliance with ASTM E 1886 and ASTM E 1996.

**Impact Resistance:** This rolling door assembly satisfies TDI's criteria for protection from windborne debris in both the Inland I zone and the Seaward zone. The rolling door assemblies passed Missile Level D specified in ASTM E 1996-04. Install the rolling door assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

#### **Installation Instructions:**

**General Installation Requirements:** Install the rolling doors in accordance with the manufacturer's installation instructions, the approved drawings, and this product evaluation report. During a high wind event, lock and close the rolling doors.

**Wall Construction:** Mount the rolling doors to the following types of wall framing:

- Pre-cast concrete, cast-in-place concrete (minimum 2,899 psi)
- Grout-filled concrete masonry units (CMU), C-90
- Wood (minimum Southern Yellow Pine dimension lumber)
- Steel, minimum 3/16" thick, A36

**Anchorage:** Anchor the rolling doors to the structure in accordance with the approved drawings. Anchorage of rolling doors to concrete, grout-filled concrete masonry units (CMU), wood framing, or steel shall follow the mounting details on the approved drawings and the fasteners specified in the mounting details. Anchorage of rolling doors to the mullions and the anchorage of the mullions to the structure shall be as specified on the approved drawings. Minimum edge distances and minimum embedment depths for all fasteners that penetrate into the structure shall be as specified on the design drawings.

**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.