

## Product Evaluation

LVR21 | 0319

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:** LVR-21

**Effective Date:** March 1, 2019

**Re-evaluation Date:** March 2023

**Product Name:** Model EFJ-937-MD Extruded Aluminum Louver

**Manufacturer:** Pottorff  
5101 Blue Mound Road  
Fort Worth, TX 76106  
(817) 509-2300

### General Description:

The EFJ-937-MD louver design consists of two louver modules fastened together one in front of the other. Each module includes its own perimeter frame and blades. The 4" deep front module has horizontal 0.081" thick, 6063-T5 aluminum blades spaced 4" apart, while the 5" deep rear module has vertical 0.060" thick, 6063-T5 aluminum blades with a 1.5" maximum blade spacing. The front module frame members are constructed from 0.081" thick, 6063-T5 aluminum along the top and bottom and 0.125" thick, 6063-T6 aluminum along the sides. The rear module frame is constructed from 0.125" thick, 6063-T6 aluminum around the entire perimeter. The side members of the front and rear module frames fasten together using self-drilling screws running through the adjacent flanges. Together, the two modules form a unit which has the external appearance of a horizontal-blade louver while possessing the water-resistant qualities of a vertical-blade design. The EFJ-937-MD has a maximum single-section size of 60" x 120" and a minimum size of 12" x 12". A multi-section assembly may include an unlimited number of sections arranged side-by-side, but louver assemblies are limited to only one section high unless additional supporting structure is designed and installed.

**Limitations:**

**Design Drawings:** Louvers must be installed in accordance with Pottorff drawing "EFJ-937-MD TDI" dated January 17, 2018, signed and sealed by Gustave L. Schmoll, P.E. on February 21, 2018.

**Design Wind Pressure:**

Assembly	Maximum Single Section Width	Maximum Single Section Height	Allowable Design Pressure Rating
EFJ-937-MD	60"	120"	±130 psf

**Wall Construction:** The louver may be mounted to the following substrates:

- Pre-cast concrete (minimum compressive strength 2,500 psi)
- Grout-filled concrete masonry units (CMU) (minimum compressive strength 1,500 psi)
- Steel (minimum 16-gauge, yield strength  $\geq$  36 ksi)
- Wood (minimum Hem-Fir, specific gravity  $\geq$  0.40)

**Product Identification:** Each unit must bear a permanent label containing the manufacturer's name and a six-digit sales order number providing traceability.

**Impact Resistance:** This louver 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 louver assembly passed an impact standard equivalent to Missile Level E specified in ASTM E 1996. The louver may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. This louver assembly will not need to be protected with an impact protective system.

**Acceptance of Smaller Assemblies:** Louver assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

**Installation:**

**General Requirements:** All requirements specified in the IRC and the IBC must be satisfied and manufacturer's instructions followed, unless otherwise specified by this product evaluation.

**Anchorage Method:** The louvers must be installed in accordance with the design drawing referenced in this evaluation report.

**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.