



# Product Evaluation

LVR16 | 0417

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-16

**Effective Date:** April 1, 2017

**Re-evaluation Date:** December 2020

**Product Name:** Models HZ850 Louver, Impact Resistant

**Manufacturer:** Ruskin  
Air & Sound Control  
3900 Doctor Greaves Road  
Grandview, MO 64030  
816-761-7476

**General Description:**

**Model No. HZ850:** The HZ850 is a combination louver utilizing the aesthetic appeal of the front louver with water penetration protection of the rear louver. The sizes tested were: one 144" x 96" single section assembly and one 192" x 96" multi-section assembly. The front louver/blades resists the applied wind load and transfers all of the load into the perimeter wood, steel, concrete, or CMU structure. The rear louver is used only for water penetration protection and is non-essential to the integrity of the combination louver.

**Limitations:**

**Design Drawings:** The louvers must be installed in accordance with Ruskin Air & Control Drawings shown in Table 1.

**Table 1**

Model Number	Drawing Number	Sealed, Signature, Sheets
HZ850	60-022409-00D	Sealed by Chelsea G. Welch, 02/09/2016 Sheets 1-21, of 21 dated August 28, 2015

**Table 2**  
**Design Wind Pressure**

Assembly	Maximum Single Section Width	Maximum Single Section Height	Allowable Design Pressure Rating
HZ850	144"	96"	±130 psf

**Blade Support:** Refer to the design drawings for requirements on blade support.

**Product Identification:** Each unit must bear a permanent label containing the manufacturer's name, series number of louver, and applicable standards.

**Impact Resistance:** These louver assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in both the Inland I zone and the Seaward zone. The louver assemblies passed an impact standard equivalent to Missile Level E specified in ASTM E 1996-04. The louvers may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These louver assemblies 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 Instructions**

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

**Anchorage Method:** The aluminum louvers must be installed in accordance with 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.