

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION SHU-131

Effective November 1, 2009

*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 shall be subject to reevaluation **February 2013**.*

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.

Lookout Clear Storm Panel Shutter System manufactured by

Lookout Shutters, Inc.
1268 Mauldin Road
Calhoun, Georgia 30701
(877) 200-0234

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's instructions and Drawing No. 09-174, sheets 1 – 12 of 12, signed and sealed by Pedro Figueiredo, P.E. on July 28, 2009. The stated drawings will be referred to as the approved drawings.

PRODUCT DESCRIPTION

Lexan LX-10 sheet, 0.088" thick, with a $1\frac{13}{16}$ " deep corrugated section located every 6". The panels are available in widths of 21", 27", 33", 39", 45", 51" and 57". Panels less than 21" can be used for end overlaps but not as a single application panel. The panels are overlapped for unlimited width openings. The panels must have a minimum overlap of 3". The panels are mounted either vertically or horizontally using the anchoring details on the drawings. All extrusions are comprised of 6063-T6 aluminum alloy unless otherwise noted on the approved drawings.

Mounting Conditions: The shutters may be wall mounted, inside mounted, build-out, or any combination thereof. Refer to the approved drawings for mounting types A-I.

Wall Construction: The headers and tracks may be mounted to cast-in-place concrete, grout-filled concrete masonry units (CMU), wood, steel, or aluminum. Concrete shall be minimum 3,000 psi. CMU shall be minimum 1,500 psi. Wood shall be minimum Southern Yellow Pine dimension lumber. The steel shall be A36 and minimum 16 gauge. The aluminum shall be minimum 6063-T6 and minimum $\frac{1}{8}$ " thick.

Product Identification: The panel shutters shall have a label that identifies the product manufacturer, the name of the product, and compliance with ASTM E-330, ASTM E 1886, and ASTM E 1996. A warning label shall also be applied indicating that the storm panels will not offer hurricane protection unless a 3" minimum overlap is provided on the panels.

LIMITATIONS

Allowable Design Pressure: The allowable design pressure varies based on the panel length and the mounting conditions. The maximum allowable design pressure shall not exceed ± 104 psf. Refer to the approved drawings for allowable design pressures.

Maximum Allowable Slat Span: The maximum panel length is 144 inches.

Impact Resistance: This 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 shutter assemblies passed the equivalent of Missile Level D specified in ASTM E 1996-04. The shutter assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

INSTALLATION INSTRUCTIONS

General Installation Requirements:

All shutters shall be mounted and installed in accordance with the approved drawings.

Anchorage:

The shutters shall be anchored to the structures in accordance with the approved shutter drawings. The depths of embedment and the edge distance spacing of the fasteners are specified in the anchor schedules on the approved drawings.

Note: The manufacturer's installation instructions and the approved drawings shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).