

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

SHU-173

Effective Date: May 1, 2013

*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 **March 2017**.*

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.

0.050 Solid Aluminum Storm Panels, manufactured by

Town & Country Industries
400 McNab Road
Fort Lauderdale, Florida 33309
(954) 970-7700

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation along with Town and Country Industries, Drawing TX-4024, sheets 1 – 11 of 11, dated March 3, 2008, revision 1 dated March 16, 2009, signed and sealed by Allen D. Gezelman, P.E. on March 18, 2009. The stated drawings will be referred to as approved drawings in this report.

PRODUCT DESCRIPTION

The 0.050 solid aluminum storm panels are 0.050" thick 5052-H32 or 3004-H34 aluminum alloy panels. Full panels are rolled formed, having a nominal width of 12" and a total width of 14.375", forming 2" deep ribs. Half panels are rolled formed, having a nominal width of 6" and a total width of 8.332", forming 2" deep ribs. Components for mounting the panels are 6063-T6 aluminum alloy, unless otherwise noted on the approved drawings. Panels are overlapped to provide an unlimited width of opening perpendicular to the panel span. The 0.050 aluminum corrugated shutters in this report are not a permanently mounted shutter system.

LIMITATIONS

Allowable Design Pressure: Ranges from +33 psf / -35 psf to +120 psf / -120 psf depending on panel span. Refer to the approved drawings for specific design pressures.

Maximum Span: The maximum span in the direction of the ribs shall be 144".

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 an impact-resisting standard equivalent to Missile Level D specified in ASTM E 1996-02. 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 installed in accordance with the approved drawings. All assemblies must adhere to the limitations section of this evaluation.

Anchorage:

When using the anchor schedules, the design pressures outlined in the limitation sections must be used. For attachment to wood framing, the wood framing members shall be minimum Spruce-Pine-Fir ($SG \geq 0.42$) or Southern Yellow Pine lumber ($SG \geq 0.55$) dimension lumber as shown on the anchor schedules on sheet 11 of 11 of the approved drawings, and the lag screws shall have a minimum penetration of $1 \frac{7}{8}$ inches into the wood framing members depending on the installation method selected.

The maximum clearance between the panels and the existing structure shall be $\frac{1}{4}$ ". All assemblies shall adhere to the limitations section of this evaluation.

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), the International Building Code (IBC), and the Texas Revisions.