

TEXAS DEPARTMENT OF INSURANCE

Engineering Services / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION SHU-105

Effective September 1, 2010

*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 **August 2014**.*

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.

Colonial Shutters manufactured by:

Southern Extrusion, Inc.
3401 W. Navy Blvd.
Pensacola, Florida 32505
(850) 432-2485

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation, and Drawing No. TX-4031, dated August 3, 2009, sheets 1 – 5 of 5 and Drawing No. TX-4032, dated August 3, 2009, sheets 1-7 of 7, signed and sealed by Lyndon F. Schmidt, P.E. on January 21, 2010. The stated drawings will be referred to as the approved drawings in this report.

PRODUCT DESCRIPTION

Colonial shutters are constructed from 6063 T-6 extruded aluminum alloy. The shutter panel consists of an extruded aluminum hollow section in the jambs, head and sill. Each louver blade measures 1.500" x 0.313" x 0.060".

The 38.5" wide x 88.0" high shutter has two panels, each secured to the structure through (5) hinged mounting brackets along each jamb. Each shutter panel is secured to the structure with a latch and locking pin assembly at the head and sill centerline. In addition, a horizontal storm bar is required to be attached at the midspan along the entire shutter width.

The 77.0" wide x 88.87" high shutter is a 2-piece bi-fold shutter. Each panel is secured to the structure through (5) hinged mounting brackets along each jamb. Each shutter panel is secured to the structure with a latch and locking pin assembly or with "Z" retainer clips at the head and sill centerline and at each bi-fold location. In addition, a horizontal storm bar is required to be attached at the midspan along each shutter width.

The shutters may be secured to concrete, concrete hollow block or wood framing.

Product Identification: Each unit must bear a permanent label containing the manufacturer's name, type of shutter, Missile Level D and applicable standards: ASTM E 1886, ASTM E 1996 and ASTM E 330.

LIMITATIONS

Design Wind Pressure:

Overall Width (inches)	Overall Height (inches)	Allowable Design Pressure (psf)
38.5	88	±100
77	88.87	±65 ¹
77	88.87	+80, -90 ²

Note: ¹ Must utilize locking pin to achieve allowable design pressure rating.

² Must utilize Z retainer clips to achieve allowable design pressure rating.

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 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. These assemblies do not meet enhanced protection of essential facilities when installed 30 feet or less above grade as defined by ASTM E 1996.

INSTALLATION INSTRUCTIONS

General Installation Requirements:

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

Anchorage:

All hinges, latches and mounting brackets shall be anchored to the structures in accordance with the mounting details and the anchor schedules on the approved drawings. For attachment to wood framing, the wood framing members shall be minimum Spruce-Pine-Fir (G=0.42 or greater).

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).