

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION SHU-157

Effective December 1, 2007

*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 3 years after the effective date.*

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.

Wind Abatement System manufactured by

Cat 5 Hurricane Screens, LLC
13484 Chambord St.
Brooksville, FL 34613
(866) 597-7207

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's instructions, Drawing No. CAT0003, titled "Wind Abatement System", sheets 1 – 3 of 3, and prepared and signed by Douglas J. McDougall, P.E. on November 1, 2007, with latest revision "A" dated October 30, 2007, and this product evaluation. The stated drawings will be referred to as approved drawings in this report.

PRODUCT DESCRIPTION

The wind abatement screen panels are constructed of geotextile polypropylene fabric and black thread with a web thickness of 0.0185". The fabric is folded and overlapped at the head and sill and is secured with six seams sewn horizontally. The fabric at the left and right jambs is folded and overlapped and is secured with four seams sewn vertically. The screens are reinforced at the top and bottom with one 78" long x 1 1/2" wide x 1/8" thick aluminum T6-6061 flat bar which is inserted in each of the overlaps. The exterior of the screen is reinforced with one 78" long x 1" wide x 1/8" thick aluminum T6-6061 flat bar which is secured to the top and bottom inner reinforcements utilizing three 1/8" aluminum pop rivets located at 4 1/2", 43" and 71 1/2" measuring from the left jamb. The wind abatement system is not a permanently mounted impact protective system. The wind abatement system and components shall have minimum properties and be assembled as specified in the approved drawings. All panels shall be permanently labeled with the manufacturer's name and performance rating.

LIMITATIONS

Design pressures:

Maximum Span (inches)	Design Pressures (psf)
120	±70

Impact Resistance: This 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.

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

INSTALLATION INSTRUCTIONS

General Installation Requirements:

All units shall be installed in accordance with the drawings referenced in this product evaluation report.

Anchorage:

The units shall be mounted to the wall framing in accordance with the mounting details on the drawings. The panels shall be fastened to concrete, masonry or wood substrate in accordance with the fastener schedule on the approved drawings. The fasteners at the head and sill shall be located a maximum of 2" from each corner and the first anchor beyond at a maximum of 5" and 8" o.c. thereafter.

Attachment to Wood Frame Structures:

The wall framing shall be minimum Southern Yellow Pine lumber ($SG \geq 0.55$). The fasteners shall have a minimum embedment depth of $1\frac{7}{8}$ " and a minimum edge distance of $\frac{3}{4}$ ".

Attachment to Concrete or Concrete Block Structures:

Concrete shall have a minimum compressive strength of 3000 psi. The fasteners shall have a minimum embedment depth of $1\frac{7}{8}$ " and a minimum edge distance of $2\frac{1}{2}$ ".

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).