

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION SHU-98

Effective July 1, 2003  
Revised October 1, 2006

*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.*

### **Force 12 Wind Abatement Screen System, Impact Resistant** manufactured by

**Hendee Enterprises, Inc.**  
**9350 South Point Dr.**  
**Houston, Texas 77054**  
**(800) 323-3641**

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's instructions, drawings titled Document No. F1201, dated May 5, 2000, last revision #5 dated July 19, 2001, sheets 1 through 9 of 9, signed and sealed by Robert R. Bullard, P.E. and this product evaluation. The aforementioned drawing documents will be referenced in this report as approved drawings.

### **PRODUCT DESCRIPTION**

The Force 12 Flexible Wind Abatement System is manufactured from woven polypropylene monofilament geotextile fabric with individual filaments woven into a basket weave network and calendered such that the filaments retain dimensional stability relative to each other. The removable impact protective system components are a 6063-T6 aluminum C-channel track, screen and eyebolts. The channel track may be mounted to a wood or masonry/concrete substrate. The screen shall be stitched and constructed as specified in sheets 4 through 7 of 9 of the approved drawings.

### **LIMITATIONS**

**Design pressures:**  $\pm 60$  psf

**Maximum Height:** 12 feet

**Screen to Glass Separation:** The screen shall be separated from the opening surface being protected by 2.5 feet at the screen mid-span.

**Protection on Each Side of Opening:** The screen shall extend 2 feet from each side of the opening being protected, unless a side closure screen is provided.

**Minimum Overlap Distance:** Screen edges shall be overlapped a minimum of 2 feet.

**Impact Resistance:** This impact protective system 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 C specified in ASTM E 1996-99 or equivalent. 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:** Protective screen assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

## INSTALLATION INSTRUCTIONS

### **General Installation Requirements:**

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

### **Mounting Conditions:**

The impact protective system shall be mounted and anchored in accordance with the mounting conditions shown on the approved drawings. For attachment to any wood framing members, the wood framing members shall be a minimum specific gravity of 0.55 (SYP).

### **Anchors:**

Installation anchors for wood connection and concrete/masonry connections shall be the type and embedment specified on sheet 9 of the approved drawings. Anchors shall be spaced as specified in the approved drawings for the applicable installation detail.

### **Minimum Separation from Glass:**

The minimum separation from glass shall be 2.5 feet.

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