

Product Evaluation Report

August 30, 2012

Application Number: _____
FLB Project Number: 09-WDF-0001_04

Product Manufacturer: Wayne-Dalton
A Division of Overhead Door Corporation
Manufacturer Address: 3395 Addison Drive
Pensacola, FL 32514

Product Name & Description: Fabric Shield Storm Panel

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 9N-3.005, F.A.C., for statewide acceptance per Method 1(d). All products listed above have been tested and/or evaluated as summarized herein to show compliance with the 2010 Florida Building Code and are, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

FLB drawing #09-WDF-0001 titled "Fabric Shield Storm Panel", sheets 1-4, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

- **TEST REPORTS**

Uniform static structural performance has been tested in accordance with TAS 202 and ASTM E330-02 test standards per test report(s) #HETI-03-1873, HETI-03-1875, HETI-04-1390, HETI-05-1486, HETI-05-1488, HETI-05-1497, HETI-05-1498, and HETI-05-2055 by Hurricane Engineering & Testing Inc. (HETI).

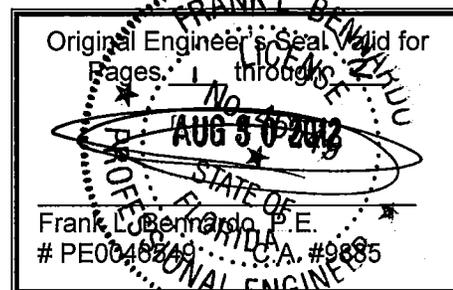
Large missile impact resistance and cyclic loading performance have been tested in accordance with TAS 201 & 203 and/or ASTM E1886-02 & E1996-02 test standards per test report(s) #HETI-03-1885A, HETI-03-1885B, HETI-04-1907, HETI-05-2053, HETI-05-2054, and HETI-06-4004 by Hurricane Engineering & Testing Inc. (HETI).

Fabric tensile capacity has been determined in accordance with ASTM E8 test standard per test reports #HETI-04-T224 and HETI-05-T370 by Hurricane Engineering & Testing Inc. (HETI). In addition, grommet pullout capacity has been determined in accordance with ASTM E488 standards per test report #HETI-06-T1050 by Hurricane Engineering & Testing inc. (HETI).

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Maximum Allowable Size/Pressure Combinations



2. Minimum Allowable Spans
3. System Porosity
4. Anchor Spacing

No 33% increase in allowable stress has been used in the design of this product.

All acceptance criteria have been met for this shutter as a non-porous system, as defined in ASTM E1996-02 & E1996-09. Separation from the shutter and any glazing behind it is only required in essential facilities and/or when the authority having jurisdiction specifies the optional pass/fail criteria as set forth in ASTM E1996-09.

Impact Resistance:

Large Missile Impact Resistance has been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

Wind Load Resistance

This product has been designed to resist wind loads as indicated in the design schedule(s) on the Product Evaluation Document (i.e. engineering drawing).

Installation

The product listed above shall be installed in strict compliance with the Product Evaluation Document (i.e. engineering drawing), along with all components noted therein.

The product components shall be of the material specified in the Product Evaluation Document (i.e. engineering drawing).

Limitations & Conditions of Use:

Use of this product shall be in strict accordance with the Product Evaluation Document (i.e. engineering drawing) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in this product's respective anchor schedule. Host structure conditions which are not accounted for in this product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

This product has NOT been designed for use within the High Velocity Hurricane Zone (HVHZ).