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ENGINEER'S EVALUATION REPORT

FL8472-R7

Date: 21 August 2012

Manufacturer: Hendee Enterprises, Inc.
9350 South Point Drive
Houston, TX 77054
Phone: (713) 796-2322
Fax: (713) 796-0494

Product Name: Force 12 Diamond Screen – FBC Product Approval Number FL8472-R7

Accompanying Documents: Hendee Enterprises, Inc., Force-12 Diamond Screen Drawing Sheet 1.0, Sheet 2.0, Sheet 3.0, Sheet 4.0, Sheet 5.0, Sheet 6.0, and Sheet 7.0 as an addendum to FL8472-R7; Attachment A – Engineering Calculations.

Description: A flexible wind abatement and impact protection system that may be used for new or existing construction. This evaluation report describes a revision to FL8472-R7 in the form of updated drawings that cite the applicable building codes and standards.

Statement of Compliance: This product evaluation report is issued by James R. Bailey, P.E. to Hendee Enterprises, Inc., in accordance with Section 9N-3.005 (formerly 9B-72.070), Engineer Evaluation Method, Florida Department of Business and Professional Regulation, Florida Building Commission. The product covered by this report has been verified to be in compliance with the Florida Building Code, 2010 Edition.

Panel Screen Installation: See Force-12 Diamond Screen Drawing Sheet 1.0, Sheet 2.0, Sheet 3.0, Sheet 4.0, Sheet 5.0, Sheet 6.0, and Sheet 7.0 submitted as an addendum to FL8472-R7.

Hardware Types and Substrates: See Force-12 Diamond Screen Drawing Sheet 1.0, Sheet 2.0, Sheet 3.0, Sheet 4.0, Sheet 5.0, Sheet 6.0, and Sheet 7.0 submitted as an addendum to FL8472-R7.

Screen Size and Design Pressure Restrictions: See Force-12 Diamond Screen Drawing Sheet 1.0, Sheet 2.0, Sheet 3.0, Sheet 4.0, Sheet 5.0, Sheet 6.0, and Sheet 7.0 submitted as an addendum to FL8472-R7.

FBC Section 1707 Materials and Assembly Tests Standards:

ASTM E 330-02 (Uniform static load pressure)
ASTM E 1886-05 (Large missile/cyclic load)
ASTM E 1996-06 (Large missile/cyclic load)

Evidence Submitted per Section 9N-3.005:

A. Test Report

- Hurricane Test Laboratory, Inc.
6655 Garden Road
Riviera Beach, Florida 33404
Substrate: Wood
Test Report Number: G450-1205-06
Test Dates: 12/22/06, 1/18-22/07, 1/23-25/07
Test Report Number: G450-0204-07
Test Dates: 2/9-12/07, 2/13-15/07, 2/23-24/07, 2/26-27/07
- Hurricane Test Laboratory, Inc.
6655 Garden Road
Riviera Beach, Florida 33404
Substrate: Concrete
Test Report Number: G450-0103-07
Test Dates: 1/19-22/07, 1/24-25/07
Test Report Number: G450-0204-07
Test Dates: 1/18-24/07, 2/9-13/07, 2/13-14/07
- Hurricane Test Laboratory, Inc.
6655 Garden Road
Riviera Beach, Florida 33404
Substrate: Hollow Concrete Block
Test Report Number: G450-0104-07
Test Dates: 1/18-2/1/07
Test Report Number: G450-0204-07
Test Dates: 2/13-14/07, 2/16/07, 2/27-28/07
- Hurricane Test Laboratory, Inc.
6655 Garden Road
Riviera Beach, Florida 33404
Substrate: Wood
Test Report Number: G450-1205-06
Test Dates: 12/22/06, 1/18-22/07, 1/23-25/07
Test Report Number: G450-0204-07
Test Dates: 2/9-12/07, 2/13-15/07, 2/23-24/07, 2/26-27/07
- Hurricane Test Laboratory, Inc.
6655 Garden Road
Riviera Beach, Florida 33404
Substrate: Concrete
Test Report Number: G450-0103-07
Test Dates: 1/19-22/07, 1/24-25/07
Test Report Number: G450-0204-07
Test Dates: 1/18-24/07, 2/9-13/07, 2/13-14/07

- Hurricane Test Laboratory, Inc.
 6655 Garden Road
 Riviera Beach, Florida 33404
 Substrate: Wood
 Test Report Number: G450-1205-06
 Test Dates: 12/22/06, 1/18-22/07, 1/23-25/07
 Test Report Number: G450-0204-07
 Test Dates: 2/9-12/07, 2/13-15/07, 2/23-24/07, 2/26-27/07

- Hurricane Test Laboratory, Inc.
 6655 Garden Road
 Riviera Beach, Florida 33404
 Substrate: Concrete
 Test Report Number: G450-0103-07
 Test Dates: 1/19-22/07, 1/24-25/07
 Test Report Number: G450-0204-07
 Test Dates: 1/18-24/07, 2/9-13/07, 2/13-14/07

- Hurricane Test Laboratory, Inc.
 6655 Garden Road
 Riviera Beach, Florida 33404
 Substrate: Hollow Concrete Block
 Test Report Number: G450-0104-07
 Test Dates: 1/18-2/1/07
 Test Report Number: G450-0204-07
 Test Dates: 2/13-14/07, 2/16/07, 2/27-28/07

- Hurricane Test Laboratory, Inc.
 6655 Garden Road
 Riviera Beach, Florida 33404
 Substrate: Hollow Concrete Block
 Test Report Number: G450-0402-07
 Test Dates: 4/12-13/07, 4/14/07, 4/16-17/07

- Hurricane Test Laboratory, Inc.
 1701 Westfork Drive, Suite 106
 Lithia Springs, Georgia 30122
 Substrate: Hollow Concrete Block
 Test Report Number: G450-0402-07
 Test Dates: 4/11/07 to 6/4/07

- Hurricane Test Laboratory, Inc.
 1701 Westfork Drive, Suite 106
 Lithia Springs, Georgia 30122
 Substrate: Wood
 Test Report Number: G450-0609-07
 Test Dates: 6/20-7/12/07, 7/16-7/19/07, 7/20/07

- Hurricane Test Laboratory, Inc.
Texas Branch Office
525 32nd Street
Lubbock, Texas 79404
Substrate: Concrete
Test Report Number: T450-1002-07
Test Date: 10/11/2007

B. Engineering Calculations (Attachment A)

General Report Notes:

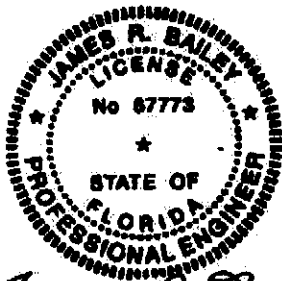
1. All size and installation conditions shown in this report and the referenced drawing are based on the referenced test reports and/or engineering analysis in accordance with the Florida Building Code 2010.
2. Fabric screens shall be constructed in accordance with the descriptions in this report, the applicable test report, and the manufacturer's state-approved quality assurance entity specifications.
3. This product is not approved for use in the High Velocity Hurricane Zones (HVHZ).
4. The job-required design wind pressure shall be calculated in accordance with the Florida Building Code and with ASCE/SEI 7-10 Minimum Design Loads for Buildings and Other Structures (0.85 directionality factor may apply).
5. Permit holder shall verify the adequacy of the existing structure to withstand new superimposed loads.

Impact Certification: Per ASTM E 1886 and ASTM E 1996 standards, no glass separation is required for this screen system installation; however, the glass may break with any size screen. The unbreached envelope criterion is met since the system is considered 'non-porous' and remains intact under impact and air pressure loading. The system is to enclose the protected opening all around. Exposed side openings along unattached edges of a deflected screen under negative pressure shall be considered in order to verify compliance with allowable opening areas for exterior surfaces as specified by code.

Certification of Independence: James R. Bailey, P.E., does not have, nor will acquire, a financial interest in any Hendee Enterprises, Inc., manufacturing or distributing products, nor any other entity involved in the approval process for which this product report is issued.

Applicable codes and standards: Florida Building Code 2010

Quality Assurance Entity: Lenard Gabert and Associates



James R. Bailey
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