

## ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

November 20, 2023

Application Number: FL 17661.1  
EX Project Number: 23-69640  
  
Product Manufacturer: Hurricane Fabric, LLC  
Manufacturer Address: 1505 Poinsettia Dr, Suite H-3  
Delray Beach, FL 33444

Product Name & Description: AstroGuard Wind Abatement System

### ***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 61G20-3.005, F.A.C., for statewide acceptance per Method 1 (d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

### ***Substantiating Data:***

- **PRODUCT EVALUATION DOCUMENTS**

EX Performance Evaluation document # 23-69640 titled "AstroGuard Wind Abatement System", prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 18.

- **TEST REPORTS**

The product has been tested per the following:

Test Lab	Test Report #	Test Standard	Test Description	Signed & Sealed By:
Fenestration Testing Laboratory, Inc. (FTL)	10-2522	TAS 202-94	Uniform Static Wind Loading	Marlin Brinson, P.E.
Fenestration Testing Laboratory, Inc. (FTL)	10-2522	TAS 201-94	Large Missile Impact Resistance	Marlin Brinson, P.E.
Fenestration Testing Laboratory, Inc. (FTL)	10-2522	TAS 203-94	Cyclic Wind Loading	Marlin Brinson, P.E.

Hurricane Fabric, LLC. – AstroGuard Wind Abatement System

- **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 Spans
2. Minimum Glass Separation
3. Anchor Spacing
4. Anchor Capacity

Separation from glazing is required for use within essential facilities, ASTM wind zone 4 and the high velocity hurricane zone (HVHZ).

### ***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 on its respective Performance Evaluation document (i.e. engineering document).

### ***Installation:***

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

The product components shall be of the material specified in the Performance Evaluation document (i.e. engineering document).

### ***Limitations & Conditions of Use:***

Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each 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. Any alteration to the respective Performance Evaluation document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,

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Frank Bennardo, P.E.

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