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PRODUCT EVALUATION REPORT

REPORT NO.: 23-0226
DATE: October 19, 2023
PRODUCT CATEGORY: Impact Protective Systems
PRODUCT SUB-CATEGORY: Removable
PRODUCT NAME: Astro Guard Wind Abatement System
MANUFACTURER: HurricaneFabric LLC
PO Box 50153
Clayton, MO 63105

SCOPE OF EVALUATION:

This is a Product Evaluation Report issued by **John H. Kampmann Jr., PE** (FBC Org. No.: ANE2480) to **HurricaneFabric.com, LLC**, manufacturer, in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission), Rule Chapter No.: 61G20-3, Method 1 (d).

All products listed above have been tested and/or evaluated as described herein to verify compliance with the 2023 Eighth edition of the Florida Building Code, and to verify that the product is for the purpose intended, at least equivalent to that required by the Code.

This Product Evaluation Report shall be subject to review and revision following Florida Building Code modifications or revisions.

EVIDENCE SUBMITTED:

PRODUCT EVALUATION DOCUMENTS

MEEA Engineers, Inc. Drawing #23-0226 titled "Astro Guard Wind Abatement System", Sheets 1 and 2, prepared by John H. Kampmann Jr., PE; signed and sealed by John H. Kampmann Jr., PE; Dated 10/19/23, is an integral part of this Evaluation Report.

TEST REPORTS

Uniform Static Loads per Protocol TAS 202 as per section 1609.1.2 of the Florida Building Code. Test Report prepared by Fenestration Testing Lab, Lab No. 5804, Dated 01/13/09 for Florida State Approval.

Uniform Static Loads per ASTM E330 as per section 1609.1.2 of the Florida Building Code. Test Report prepared by Fenestration Testing Lab, Lab No. 6418, Dated 12/07/10 for Florida State Approval.

Large Missile Impact Resistance and Cyclic Loading Performance per Protocol TAS 201 and TAS 203 as per section 1609.1.2 of the Florida Building Code. Test Report

prepared by Fenestration Testing Lab, Lab No. 5804, Dated 01/13/09 for Florida State Approval.

Large Missile Impact Resistance and Cyclic Loading Performance per ASTM E1886 and ASTM E1996 Protocols as per section 1609.1.2 of the Florida Building Code. Test Report prepared by Fenestration Testing Lab, Lab No. 6418, Dated 12/07/10 for Florida State Approval.

Note: Lab Reports Signed and Sealed on Dates noted by Marlin Brinson, PE.

STRUCTURAL ENGINEERING CALCULATIONS

Structural Engineering Calculations have been prepared which evaluate the product for maximum screen length vs. design wind load; maximum anchor spacing vs. design wind load and screen length based on rational and comparative analysis, per section 1609 of the Florida Building Code (Non-HVHZ).

MISSILE IMPACT RESISTANCE:

Large Missile Impact, per section 1609.1.2 of the Florida Building Code, as per Protocol TAS 201 and missile type D (Basic Protection), as per ASTM E1886 and ASTM E1996 Standard.

WIND LOAD RESISTANCE:

The product(s) listed above have been designed to resist wind loads as indicated in the span schedule(s) on its respective Product Evaluation Document – Drawing noted above.

INSTALLATION:

The product(s) listed above shall be installed in strict compliance as indicated in its respective Product Evaluation Document – Drawing noted above.

MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

The product(s) listed above shall be installed in strict compliance as indicated in its respective Product Evaluation Document – Drawing noted above.

LIMITATIONS AND CONDITIONS OF USE:

The product(s) listed above shall be installed in strict compliance as indicated in its respective Product Evaluation Document – Drawing noted above.

Conditions which are not indicated or accounted for in the Product Evaluation Document shall be designed for on a site-specific basis by a Florida Licensed Professional Engineer.

All components which are permanently installed shall be protected against corrosion, contamination and other such damage at all times. Periodic inspection is strongly recommended to insure its continued safe use.

The product(s) listed above **SHALL NOT** be installed within the HIGH VELOCITY HURRICANE ZONES as defined in section 1620.2 of the Florida Building Code and shall only be installed within wind zones 1,2 or 3, as defined the ASTM E1996 Standard.

The product(s) listed above shall only be installed onto Concrete Block, Poured Concrete and Wood Frame Structures.