



BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

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Product Evaluation Report *of*

JHRG, LLC
“Storm-A-Rest”
Hurricane Shutter
(Non-HVHZ)

for
Florida Product Approval
FL#: FL9757-R4

Report No. 1912

Florida Building Code 2007 & 2010
Per Rule 9N-3

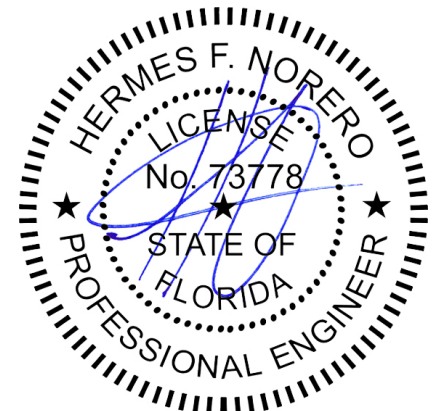
Method: 1 – D (Engineering Evaluation)
Category: Shutters
Sub – Category: Storm Panels

Product: Storm-A-Rest Hurricane Shutter
Material: Polyethylene Fabric / Aluminum
Product Dimensions: (Unlimited) Width x 124.50” Height

Prepared For:
JHRG, LLC
303 South Pine Street
Spring Hope, NC 27882

Prepared by:
Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 2/23/12

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Hermes F. Norero, P.E.
Florida No. 73778



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Date: 2/23/12

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Manufacturer: JHRG, LLC.

Product Category: Shutters

Product Sub-Category: Storm Panels

Compliance Method: State Product Approval Rule 9N-3.005 (1)(d)

Product Name: **Storm-A-Rest Hurricane Shutter**
Impact Rated
(Unlimited) Width x 124.50" Height

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **JHRG, LLC** based on Rule Chapter No. 9N-3.005, Method 1d of the State of Florida Product Approval, Department of Community Affairs - Florida Building Commission.

Hermes F. Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the 2007 & 2010 Florida Building Code.

See Drawing No. **JHRG05**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the 2007 & 2010 Florida Building Code, excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the 2007 & 2010 Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of drawing **JHRG05** require further engineering analysis by a licensed engineer or registered architect.
5. See drawing **JHRG05** for size and design pressure limitations.

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Florida No. 73778
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Quality Assurance: The manufacturer has demonstrated compliance of door products in Accordance with the Florida Building Code and Rule 9N-3.005 for manufacturing under a quality assurance program audited by an approved quality assurance entity through **National Accreditation and Management Institute** (FBC Organization #: QUA 1789)

Performance Standards: The product described herein has been tested and impacted per:

- ASTM E 330-02
- ASTM E 1886-05
- ASTM E 1996-05

Referenced Data:

1. Product Testing performed by **American Test Lab, Inc.** (FBC Organization # TST1555)
Report #: ATLNC-0902.01-08, Report Date: 12/05/08
*Test Report for zipper running parallel to load

Standards Tested: ASTM E 330-02
 ASTM E 1886-05
 ASTM E 1996-05

2. Product Testing performed by **American Test Lab, Inc.** (FBC Organization # TST1555)
Report #: ATLNC-0112.01-09, Report Date: 01/28/09
*Test Report for zipper running perpendicular to load

Standards Tested: ASTM E 330-02
 ASTM E 1886-05
 ASTM E 1996-05

3. Quality Assurance
National Accreditation and Management Institute
(FBC Organization #: QUA 1789)



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Installation: 1. Approved anchor types and substrates are as follows:

- A. For concrete or masonry substrate where one by (1X), non-structural, wood bucking is employed, use **1/4" diameter ITW Buildex Tapcon SG or Sammy SSC** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.75" into concrete or masonry.
- B. For concrete or masonry substrate where wood bucking is NOT employed, use **1/4" diameter ITW Buildex Tapcon SG or Sammy SSC** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.75" into concrete or masonry.
- C. For two by (2X) wood frame substrate, use **1/4" diameter ITW Buildex Tapcon SG or Sammy SSC** of sufficient length to achieve minimum embedment of 1.5" into wood framing

Refer to Installation Instructions (**JHRG05**) for anchor spacing schedule and more details of the installation requirements.

Design Pressure: +/- 78.0 PSF

Non-HVHZ Rated

Glazing: N/A

Hermes F. Norero, P.E.

Florida No. 73778

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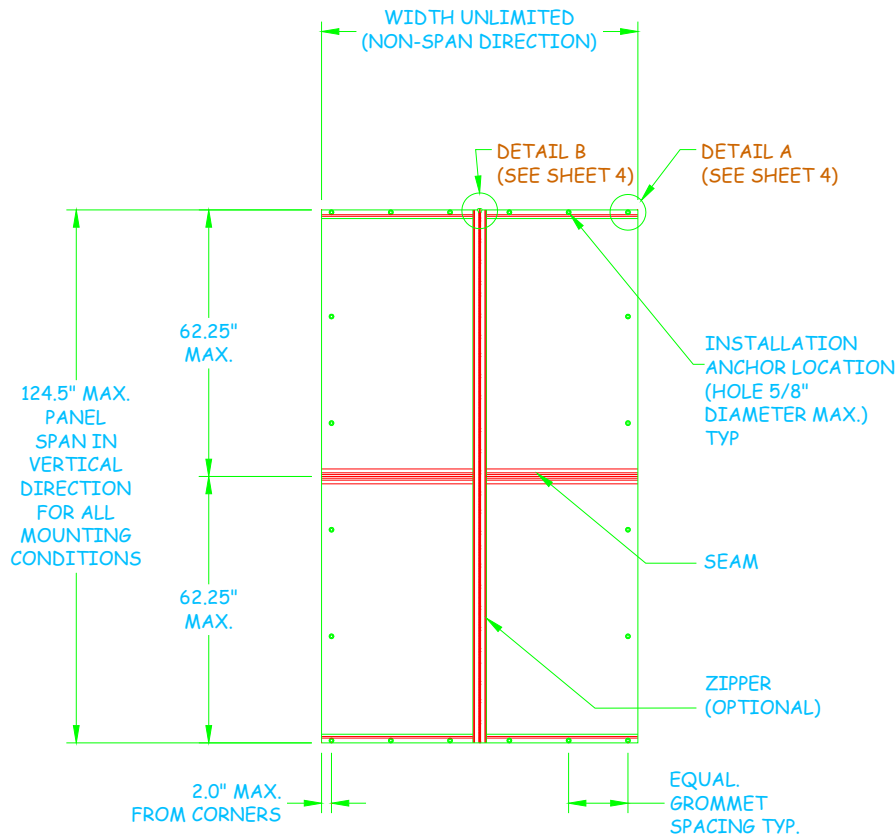


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Installation Method JHRG, LLC “Storm-A-Rest” Hurricane Shutter (Non-HVHZ)



ELEVATION EXTERIOR VIEW