

PRODUCT EVALUATION REPORT

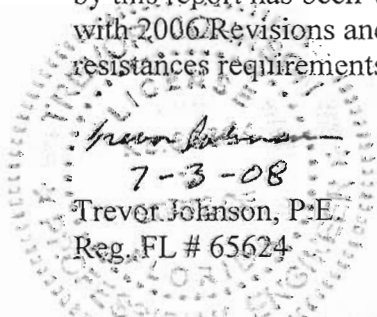
1. **Application No:** FL 10564
2. **Date:** July 3, 2008
3. **Product Category:** Shutters
4. **Product Sub-Category:** Roll-up
5. **Other Sub-Category:** None
6. **Product Name:** 58mm End-Retention Roll Shutter System
7. **Evaluation Entity:** Arnold/Sanders Consulting Engineers, Inc.
16681 McGregor Blvd, Suite 102
Fort Myers, FL 33908
239-267-3666
8. **Manufacture:** Advanced Hurricane Technology, Inc
6063 Janes Lane
Naples, FL 34109
239-594-7722

9. **Product Description:**

Aluminum Roll-up End-Retention 58mm Slat Shutter for Impact Protection of openings. This Roll-up Shutter Systems can be used for new installations or for replacement of existing shutters.

10. **Statement of Compliance:**

This product evaluation report is issued by Arnold/Sanders Consulting Engineers, Inc to Advanced Hurricane Technology, Inc. in accordance with Section 9B-72.070 Method 1D, F.A.C., Department of Community Affairs-Florida Building Commission. The product covered by this report has been verified to be in compliance with the Florida Building Code, 2004 Edition with 2006 Revisions and the 2007 Florida Building Code and meets the impact and wind resistances requirements of Section 1609.1.4.


7-3-08
Trevor Johnson, P.E.
Reg. FL # 65624

11. Evidence Submitted:

11.1. Testing Reports:

Fenestration Testing Laboratory, Inc.

Date: November 7, 2007

Laboratory No. 5424

Report No. 01

File No. 07-374

Tested for large missile impact, cycle loading and uniform static load in accordance with TAS 201, 202, and 203.

Maximum Width Tested 290.25"

Design Pressure Tested 45 PSF

Structural Load Tested 67.5 PSF

Configurations Tested Direct Mounts, Build-Outs, and Build-Ins

Minimum Tested Width 150.5

Design Pressure Tested 90 PSF

Structural Load Tested 135 PSF

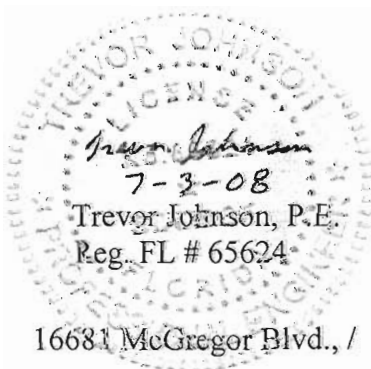
Configurations Tested Direct Mounts, Build-Outs, and Build-Ins

11.2. Product Evaluation Document:

Approval Document titled "58mm End-Retention Roll Shutter System", dated 7/3/08, Sheet 1 of 9 through Sheet 9 of 9, Signed and Sealed by Trevor Johnson, P.E. These Drawings are an integral part of this Evaluation Report.

11.3. Structural Engineering Calculations:

The 58mm End-Retention Roll Shutter System for maximum shutter span vs. design wind loads for multiple mounting condition and anchor spacing. The design wind load and shutter span based are on rational and comparative analysis, and in accordance with sections 1612 and 2003 of the Florida Building Code. Calculations prepared by Arnold/Sanders Consulting Engineers, Inc dated May 21, 2008, Signed and Sealed by Trevor Johnson, P.E.



12. Missile Impact Resistance:

The 58mm End-Retention Roll Shutter System has been verified to withstand large missile impact under section 1609.1.4 of the Florida Building Code, as per TAS 201-94.

13. Wind load Resistance:

The 58mm End-Retention Roll Shutter System has been verified to withstand sustained and cyclic wind pressures under section 1609.1.4 of the Florida Building Code, as per TAS 202-94 and TAS 203-94. The maximum shutter span, wind pressure, and anchor spacing shall be as indicated on sheets 6 through 9 of Approval Document titled "58mm End-Retention Roll Shutter System".

14. Instillation and Specifications:

Installation shall be in strict accordance with the General Notes, components, and details of the Approval Document titled "58mm End-Retention Roll Shutter System", dated 7/3/08, Sheet 1 of 9 through Sheet 9 of 9, Signed and Sealed by Trevor Johnson, P.E.

15. Limitation and Condition of Use:

- 15.1. Product shall not be installed in the "High Velocity Hurricane Zone" as defined in the Section 1620 of Florida Building Code.
- 15.2. Product shall be manufactured and installed strictly in accordance with Approval Document titled "58mm End-Retention Roll Shutter System", dated 7/3/08, Sheet 1 of 9 through Sheet 9 of 9, Signed and Sealed by Trevor Johnson, P.E.
- 15.3. Product shall be installed in accordance with Means of Egress requirements of Section 1008.1.3.6 of the Florida Building Code.
- 15.4. Multiple unit installations require an approved mullion for this type of shutter system.

