

PRODUCT EVALUATION REPORT

1. **Report No:** FL 20404 (23-0804)
2. **Date:** October 5, 2023
3. **Product Category:** Shutters
4. **Product Sub-Category:** Roll-up
5. **Other Sub-Category:** None
6. **Product Name:** AHT 58MM Shutter
7. **Evaluation by:** Trevor Johnson, P.E.
11835 Autumn Creek Dr.
Riverview, FL 33569
813-404-7649
8. **Manufacturer:** Advanced Hurricane Technology
16501 Old Airport Haul Rd
Fort Myers, FL 33913
239-260-0020

9. Product Description:

The aluminum 58 mm slat end-retention roll-up shutter for impact protection of openings. These 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 to Advanced Hurricane Technology in accordance with the Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005 Method 1D. The product covered by this report has been verified to be in compliance with the 8th Edition (2023) Florida Building Code and meets the impact and wind resistance requirements of Section 1609.1.2.



11. Evidence Submitted:

11.1. Testing Reports:

Fenestration Testing Laboratory, Inc.

Laboratory No. 5424

Date: November 7, 2007

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 Mount, Build-Outs, and Build-Ins

Minimum Tested Width 150.5"

Design Pressure Tested 90 PSF

Structural Load Tested 135 PSF

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

Laboratory No. 8764 & 8778

Date: February 22, 2016

Project No. 15-6193

Cert No. TST-1657

End-Retention tested for large missile impact, cycle loading load in accordance with TAS 201, 202, 203, ASTM Standards E330-14, E1886-05, and E1996-12.

Maximum Width Tested 292.5"

Design Pressure Tested 40 PSF

Configurations Tested Direct Mount

Minimum Width Tested 112.875"

Design Pressure Tested 120 PSF

Configurations Tested Direct Mount

11.2. Product Evaluation Document:

Approval Document titled "AHT 58MM Shutter", dated 10/5/23, Sheet 1 of 15

through Sheet 15 of 15, Signed and Sealed by Trevor Johnson, P.E. These

Drawings are an integral part of this Evaluation Report.



11.3. Structural Engineering Calculations:

The AHT 58MM Shutter for maximum slat span vs. design wind loads for multiple mounting conditions and anchor spacing. The design wind load and slat span are based on rational and comparative analysis, and in accordance with Chapters 16 and 20 of the Florida Building Code. Calculations prepared by TKJ Engineering, LLC, dated 10/5/23, Signed and Sealed by Trevor Johnson, P.E.

12. Missile Impact Resistance:

The AHT 58MM Shutter has been verified to withstand large missile impact under Section 1609.1.2, as per TAS 201 and ASTM E1886 & E1996.

13. Wind Load Resistance:

The AHT 58MM Shutter has been verified to withstand sustained and cyclic wind pressures under Section 1609.1.2, as per TAS 202, 203, ASTM E330, E1886, and E1996. The maximum slat span, wind pressure, and anchor spacing shall be as indicated on sheet 10 through 15 of Approval Document titled "AHT 58MM Shutter".

14. Instillation and Specifications:

Installation shall be in strict accordance with the General Notes, components, and details of the Approval Document titled "AHT 58MM Shutter", dated 10/5/23, Sheet 1 of 15 through Sheet 15 of 15, Signed and Sealed by Trevor Johnson, P.E.

15. Limitation and Condition of Use:

- 15.1. This product shall not be installed in the "High Velocity Hurricane Zone" as defined in the Section 1620 of the Florida Building Code.
- 15.2. Product shall be manufactured and installed strictly in accordance with Approval Document titled "AHT 58MM Shutter", dated 10/5/23, Sheet 1 of 15 through Sheet 15 of 15, Signed and Sealed by Trevor Johnson, P.E.
- 15.3. This product and shutters shall be installed in accordance with Means of Egress requirements of Section 1010.3.5 of the Florida Building Code.

- 15.4. Multiple Roll-up Shutter unit installations require an approved mullion for this type of shutter system.

