

WALTER A. TILLIT, JR., P.E.

PRODUCT EVALUATION REPORT

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REPORT NO.: 26-0630.04

DATE: June 30, 2026

PRODUCT CATEGORY: Hurricane Shutters

PRODUCT SUB-CATEGORY: Accordions

PRODUCT NAME: BERTHA H.V. ACCORDION SHUTTER SYSTEM (H.V. BLADE # 1 AND # 2 AND H.V. WINDOW BLADE # 1A)

SUBMITTED BY: American Shutter Systems Association, Inc.
4268 Westroads Drive
West Palm Beach, Florida 33407

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report Revision issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **American Shutter Systems Association, Inc** based on **Rule Chapter No. 61G20-3, Method 1D of the Florida Department of Business and Professional Regulation.**

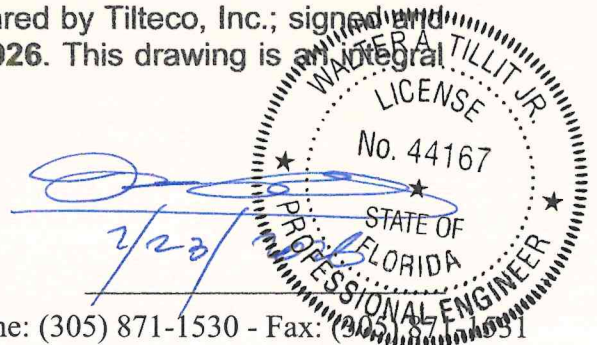
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2026 9th Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

This Product Evaluation Report shall be subject to review and revision in case of a Building Code Change that may affect its limitations and conditions

2. EVIDENCE SUBMITTED:

2.1. PRODUCT EVALUATION DOCUMENT (P.E.D.):

Drawing No. 26-104, titled "**BERTHA H.V. ACCORDION SHUTTER SYSTEM**", sheets 1 thru 28 of 28, including 28A of 28, prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E.; dated **6/30/2026**. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

For HV Blade 1

Large missile impact and cyclic loadings under ASTM E-1886 and ASTM E-1996 as well as Protocols TAS 201 and 203, as per section 1609.1.2 of the Florida Building Code.

Uniform Static loads in accordance with Protocol TAS 202. Test reports prepared by American Testing Lab (ATL) of South Florida, Reports No. 0214.01-03, 0715.01-03, dated June 27, 2003; and January 21, 2004 respectively, signed and sealed by William R. Mehner, P.E., and Henry Hatten, P.E., jointly with ATL reports # 1004.01-05, dated 11/16/05, signed and sealed by William R. Mehner, P.E.; # 1214.01-05 dated 12/20/05, signed and sealed by Henry Hatten, P.E. per Protocol TAS 201, 202 and 203 and completed with ATL Report # 0317.02-06, dated on 05/23/06 signed and sealed by William Mehner, P.E. also per Protocols TAS 201, 202 and 203.

Large missile Impact & Cyclic loading under protocols TAS 201 & 203, and ASTM E-1886 & E-1996. Test reports prepared by American Testing Lab (ATL) of South Florida, Report No. 0609.01-10, dated June 17, 2010, signed and sealed by Julio E. Gonzales, P.E., report No. 0210.01-11, dated 02/22/2011, signed and sealed by Henry Hatten, P.E.

Tensile tests as per QC Metallurgical Report No.3DM-388 and No. 5JM-1022, dated May 20, 2003 and November 16, 2005, respectively; signed and sealed by Frank E. Grate Jr., P.E., as per ASTM E-8, as well as Reports No.10FM-718, dated June 22, 2010, and Report No. 11CM-223, dated 03/04/2011 signed and sealed by Frank E. Grate Jr. P.E., as per ASTM E-8.

For HV Blade 2:

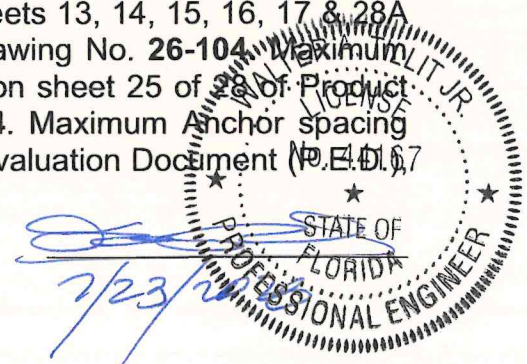
Large missile impact and cyclic loadings under Protocols TAS 201 and 203, as per section 1609.1.2 of the Florida Building Code. Uniform Static loads in accordance with Protocol TAS 202. Test reports prepared by American Testing Lab of South Florida, Report No. 0422.01-05, dated April 22 thru June 15, 2005, signed and sealed by William R. Mehner, P.E., and Henry Hatten, P.E.

Tensile test as per QC Metallurgical Report No. 5FM-578, dated 7/6/2005; signed and sealed by Frank Grate, P.E., as per ASTM E 8.

For HV Window Blade 1A

Large missile impact and cyclic loading under TAS 201 and 203 Protocols, as per section 1609.1.2 of the Florida Building Code. Uniform Static loads in accordance with ASTM E-330 Test reports prepared by American





drawing # **26-104**. Maximum Anchor spacing shall be as indicated on sheet 28 of Product Evaluation Document (P.E.D.), drawing **26-104**. Accordion Shutter System with HV Blades 1, 2 & 1A has been verified for code compliance to work as a non-porous storm shutter assembly, as per ASTM E 1996 Standard.

5. INSTALLATION:

For HV Blade 1 shall be performed strictly in accordance with details indicated on sheets 5, 6, 7, 8, 9, 10, 11, 18, 19, 20 & 28A of 28 of Product Evaluation Document (P.E.D.), drawing No. **26-104**. Minimum separation to glass shall be as indicated on sheets 6 thru 11, 18 thru 20 & 28A of Product Evaluation Document (P.E.D.), drawing No. **26-104**. Requirements for use of locks and/or locking rods shall be as indicated on Notes on sheet 5 of 28, note 10 on sheet 1 and 28 & sheet 28A and note 10 on sheet 1 of 28 of Product Evaluation Document (P.E.D.), drawing No. **26-104**.

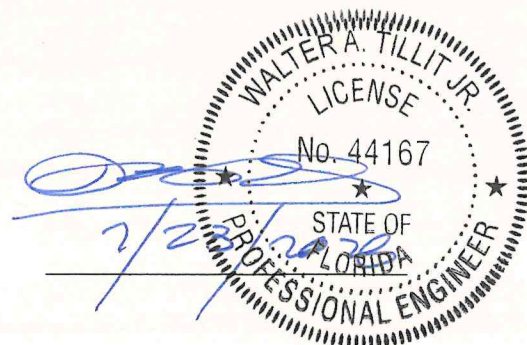
For HV Blade 2 shall be performed strictly in accordance with details indicated on sheets 21, 22, 23 and 24 of 28 of Product Evaluation Document (P.E.D.), drawing # **26-104**.

Minimum separation to glass shall be as indicated on sheets 22 thru 24 of Product Evaluation Document (P.E.D.), drawing No. **26-104**. Requirements for use of locks and/or locking rods shall be as indicated on Notes on sheets 21 and 28 and note 10 on sheet 1 of 28 of Product Evaluation Document (P.E.D.), drawing No. **26-104**.

The HV Blade working in unison with HV Blade 1A shall be performed strictly in accordance with Limitations included on sheet 28 of drawing No. **26-104**. Minimum separation to glass shall be as indicated on sheets 6,7,18 and 19 of drawing **26-104**.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1 through 4 of 28 of Product Evaluation Document (P.E.D.), drawing No. **26-104**. Anchor specifications for HV Blade 1 shall be as indicated on sheets 14, 16, 17 and 28A of 28 of Product Evaluation Document (P.E.D.), drawing No. **26-104**. Anchor specifications for HV Blade 2 shall be as indicated on sheet 26 of 28 of Product Evaluation Document (P.E.D.), drawing # **26-104**.



7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1, 2, 9, 10, 11, 12 and 13 indicated on sheet 1 of 28, of Product Evaluation Document (P.E.D.), Drawing No. **26-104** prepared by Tilteco, Inc. and signed and sealed by Walter A. Tillit, Jr., P.E.

7.2. Product **shall not be** installed within HIGH VELOCITY HURRICANE ZONES as defined on section 202 of the Florida Building Code.

7.3. Product **shall only be** installed into poured concrete, concrete block, wood frame and metal stud walls under the Maximum Span and Maximum Design Load limitations indicated on this drawing, as applicable.

7.4 Limitation of use for Blade HV1 used in unison with Blade HV 1A shall be as per sheet 28 of 28 of Product Evaluation Document (P.E.D) No. **26-104**

Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida CA-0006719).

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