

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
PRODUCT EVALUATION REPORT

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

tilteco@aol.com
FL P.E. License No. 44167
FL C.A. License No. 0006719

REPORT NO.: 24-0809.01

DATE: August 9, 2024

PRODUCT CATEGORY: Shutters

PRODUCT SUB-CATEGORY: Bahama

PRODUCT NAME: Bahama Shutter

SUBMITTED BY: ALUCORE, LLC
24550 S.W. 193 AVE
HOMESTEAD, FL 33031

1. PURPOSE OF EVALUATION:

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

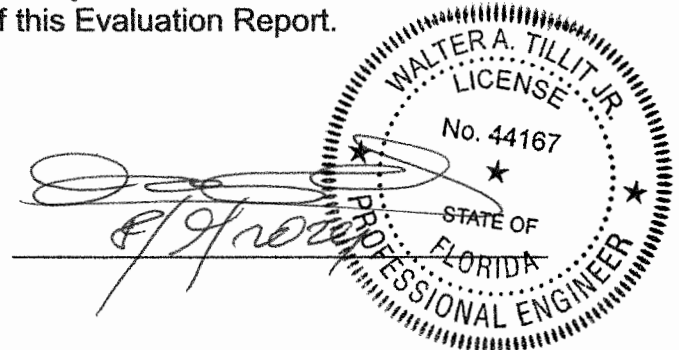
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the **2023** (8th Edition) of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. **24-094** titled "**BAHAMA SHUTTER**", sheets 1 thru 17 as applicable, prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E.; dated **8/9/2024**. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

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 on Bahama Shutter prepared by Fenestration Testing Laboratory, Inc., Reports No. 3846, 3849 and 3852, dated August 1, 2003, signed and sealed by Edmundo Largaespada, P.E. on 10/09/03.

Tensile Tests as per Fenestration Testing Laboratory Inc., Report No. 3816 and 3817 dated May 27, 2003 prepared by Roberto Robleto, Testing Manager.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Bahama Shutter for maximum anchor spacing vs. design wind load and shutter span based on rational and comparative analysis, and in accordance with sections 1604 & 1616 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated September 19, 2006, March 11, 2015 and November 30, 2017, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

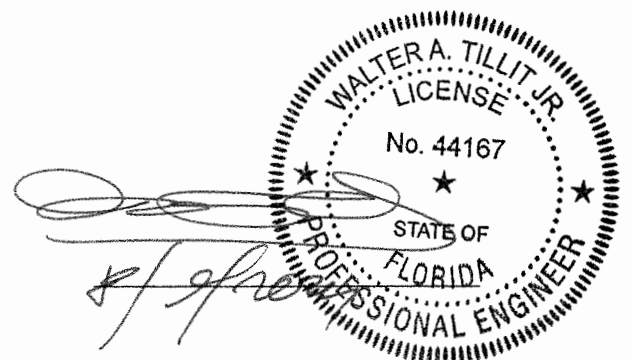
Large missile impact under sections 1609.1.2 and 1626 of the Florida Building Code, as per Protocol TAS 201 (9lbs, 2" x 4", 50 ft/sec).

4. WIND LOADS RESISTANCE:

Bahama Shutter has been verified to sustain wind pressures. Maximum Shutter Span shall be as indicated on sheet 17, of Product Evaluation Document (P.E.D.), drawing No. **24-094**. Maximum Anchor Spacing shall be as indicated on sheets 6, 7, 8, 15 and 16 of Product Evaluation Document (P.E.D.), drawing **24-094**. Bahama Shutter has been verified for code compliance to work as a wind load resistant storm shutter assembly, as per Protocol TAS 202.

5. INSTALLATION:

Shall be performed strictly in accordance with the details indicated on sheets 4 thru 8, of Product Evaluation Document (P.E.D.), drawing No. **24-094**. Minimum separation to glass shall be as indicated on sheet 17 of 17, of Product Evaluation Document (P.E.D.), Drawing No. **24-094**.



6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheet 1, 2 and 3 of Product Evaluation Document (P.E.D.), Drawing No. **24-094**. Anchor specifications shall be as indicated on sheets 1, 6, 7, 15 and 16, of Product Evaluation Document (P.E.D.), drawing No. **24-094**.

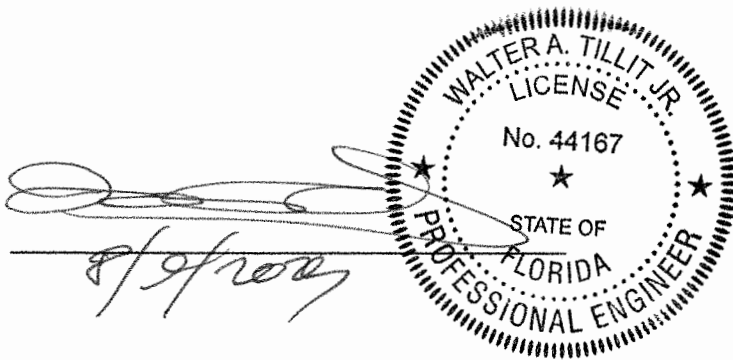
7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1, 8 thru 15, indicated on sheet 1, of Product Evaluation Document (P.E.D.), drawing No. **24-094** prepared by Tilteco, Inc. and signed and sealed by Walter A. Tillit, Jr., P.E.

7.2. Product **may be** installed within HIGH VELOCITY HURRICANE ZONES as defined on section 202 of the Florida Building Code, or out of it.

7.3. Product shall only be installed into poured concrete, concrete block, and wood frame structures.

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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