

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

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PRODUCT EVALUATION REPORT

REPORT NO.: 23-0707.03

DATE: July 7, 2023

PRODUCT CATEGORY: Hurricane Shutters

PRODUCT SUB-CATEGORY: Storm Panels

PRODUCT NAME: 0.050" ALUMINUM STORM PANEL

MANUFACTURER: Reliable Shutter Co.
180-B Rich Street
Venice, FL 34292

1. PURPOSE OF EVALUATION:

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

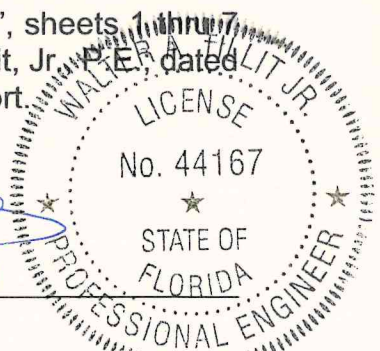
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2023 Eighth Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 23-078, titled "0.050" ALUMINUM STORM PANEL", sheets 1 thru 7 of 7 prepared by Tilteco, Inc.; signed and sealed by **Walter A. Tillit, Jr., P.E.**, dated **7/7/2023**. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Large missile impact load tests and Uniform Static Load Test were performed under SSTD 12-99 standard and TAS 202 as per section 1609.1.2 of the Florida Building Code. Test reports prepared by Fenestration Testing Lab Inc., Report No. 2619, dated June 5, 2000, signed by Manny Sanchez, President and witnessed by Aldo P. Gonzales, P.E., Report No. 2653, dated May 22, 2000, signed and sealed by Aldo P. Gonzales, P.E. and Manny Sanchez, President, Report No. 4676, dated July 1, 2005, signed and sealed by Edmundo Larga Espada, P.E., and Report No. 4677, dated July 1, 2005, signed and sealed by Edmundo Larga Espada, P.E.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On 0.050" Aluminum Storm Panel for maximum anchor spacing vs. design wind load and panel length based on rational and comparative analysis, and in accordance with section 1604 and 2002 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated June 9, 2005, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

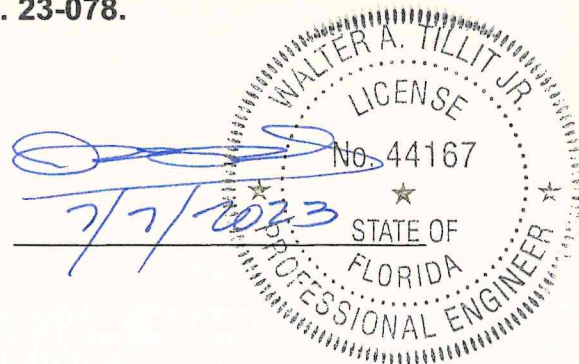
Large missile impact under section 1609.1.2 of the Florida Building Code, as per SSTD 12-99 Standard.

4. WIND LOADS RESISTANCE:

0.050" Aluminum Storm Panel has been verified to sustain wind pressures. Maximum panel length shall be as indicated on sheet 4 of 7 of Product Evaluation Document (P.E.D.), drawing No. 23-078. Maximum Anchor Spacing shall be as indicated on sheets 5, 6 and 7 of 7, of Product Evaluation Document (P.E.D.), drawing No. 23-078. 0.050" Aluminum Storm Panel has been verified for code compliance to work as a non-porous storm shutter assembly, as per SSTD 12-99 Standard.

5. INSTALLATION:

Installation shall be performed strictly in accordance with the details indicated on sheets 2, 3, 4, 6 and 7 of 7, of Product Evaluation Document (P.E.D.), drawing No. 23-078. Minimum separation to glass shall be as indicated on sheet 4 of 7, of Product Evaluation Document (P.E.D.), drawing No. 23-078.



6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1 of 7, of Product Evaluation Document (P.E.D.), drawing **No. 23-078.** Anchor specifications shall be as indicated on sheets 1, 2, 5, 6 and 7 of 7, of Product Evaluation Document (P.E.D.), drawing **No. 23-078.**

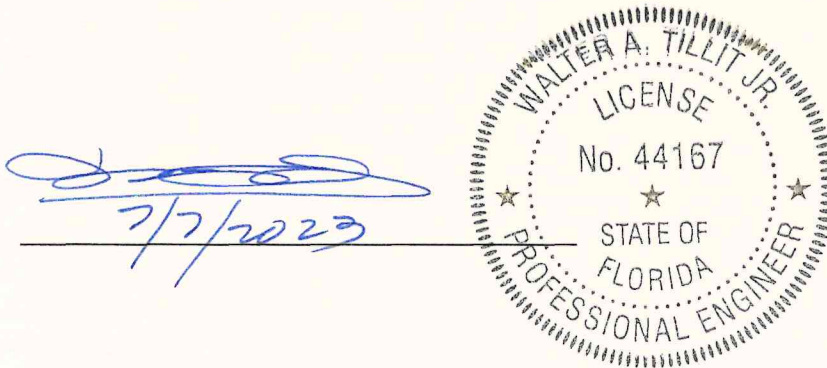
7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 7, 8, 9 and 10, indicated on sheet 1 of 9, of Product Evaluation Document (P.E.D.), drawing **No. 23-078** 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, 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).



The image shows a handwritten signature in blue ink, which appears to be "Walter A. Tillit, Jr.", written over a horizontal line. Below the signature is the date "7/7/2023" also written in blue ink. To the right of the signature is a circular professional engineer seal. The seal has a dotted border and contains the text "WALTER A. TILLIT JR." at the top, "LICENSE" in the center, "No. 44167" below the license word, "STATE OF FLORIDA" at the bottom, and "PROFESSIONAL ENGINEER" around the bottom edge. There are three stars within the seal.

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DRWG #23-078 \ REPORT # 23-0707.03