



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

PRODUCT EVALUATION REPORT

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

REPORT NO.: 13-0827.01
DATE: August 27, 2013
PRODUCT CATEGORY: Hurricane Shutters
PRODUCT SUB-CATEGORY: Storm Panels
PRODUCT NAME: 24 Gage Galvanized Steel Storm Panel
MANUFACTURER: Global Protection Products, LLC
4800 S.W. 51 Street
Davie, Florida 33314

1. PURPOSE OF EVALUATION:

This is a Revision of Product Evaluation Report for Approval # **FL15076-R1** issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **Global Protection Products, LLC** manufacturer, based on **Rule Chapter No. 9N-3.005**, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

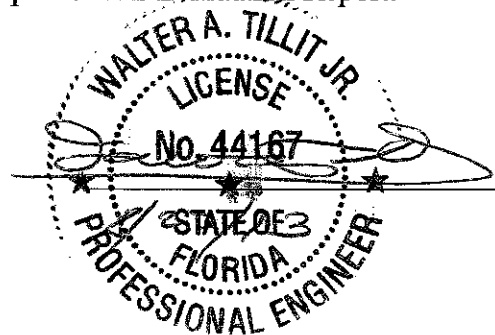
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2010 edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 13-067, titled "**24 GAGE GALVANIZED STEEL STORM PANEL**", sheets 1 thru 18 of 18 prepared by Tilteco, Inc.; signed and sealed by **Walter A. Tillit, Jr., P.E.**; dated 08/27/2013. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Large missile impact load tests were performed under SSTD 12-99 standard as per section 1609.1.2 of the Florida Building Code. Uniform static loads as per Section 1715.5.3, per ASTM E-330. Test reports prepared by American Testing Lab of South Florida, Report # 0814.01-01 dated 03/11/02 witnessed by William R. Mehner, P.E., Boriz Moroz, P.E. and Henry Hattem, P.E. and Report No. 0219.01-09, dated February 25, 2009, signed and sealed by Edmundo Largaespada, P.E. and Henry Hattem, P.E. Large missile impact and cyclic loadings per Protocols TAS 201 & 203 as per section 1609.1.2 of the Florida Building Code. Test Report prepared by American Testing Lab of South Florida, Report No. 1123.01-10, dated November 23, 2010, signed and sealed by Julio E. Gonzalez, P.E.

Tensile test report No. 9CM-198 by QC Metallurgical, Inc., dated March 13, 2009, signed and sealed by Frank Grate, P.E, as per ASTM E-8 and Tensile Test as per QC Metallurgical Report No. 10KM-1318, dated December 1, 2010 signed and sealed by Jerry Jaciofano, P.E. as per ASTM E-8.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

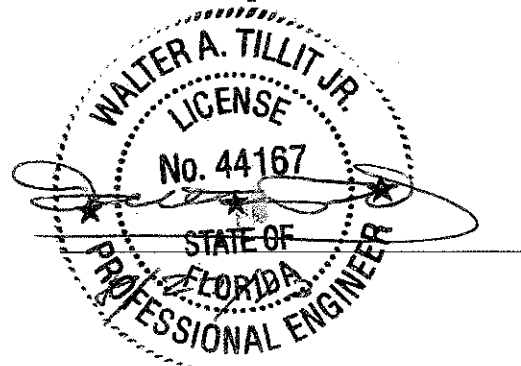
On 24 Gage Galvanized Steel Storm Panel for maximum panel length vs. design wind load, as well as maximum anchor spacing vs. design wind load and panel length based on rational and comparative analysis, and in accordance with **section 1604** of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 12/18/10 and 08/27/13 (for this revision), 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 and TAS 201.

4. WIND LOADS RESISTANCE:

24 Gage Galvanized Steel Storm Panel has been verified to sustain wind pressures. Maximum panel length shall be as indicated on sheets 3, 9, 10, 11, 12 and 17 of 18 of Product Evaluation Document (P.E.D.), **drawing No. 13-067**. Maximum Anchor Spacing shall be as indicated on sheets 5, 9, 10, 11, 13 thru 16 and 18 of 18, of Product Evaluation Document (P.E.D.), **drawing No. 13-067**. 24 Gage Galvanized Steel 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 details indicated on sheets 3 thru 8, 12 thru 18 of 18, of Product Evaluation Document (P.E.D.), **drawing No. 13-067**. Minimum separation to glass shall be as indicated on sheets 3, 6, 13, 14, 15, 16 and 18 of 18, of Product Evaluation Document (P.E.D.), **drawing No. 13-067**.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheet 1 and 2 of 18, of Product Evaluation Document (P.E.D.), **drawing No. 13-067**.

Anchor specifications shall be as indicated on sheet 1 of 18, of Product Evaluation Document (P.E.D.), **drawing No. 13-067**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1, 8 thru 14, indicated on sheet 1 of 18 of Product Evaluation Document (P.E.D.), **drawing No. 13-067** 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 1620.2 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 EB-0006719).

