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## PRODUCT EVALUATION REPORT

**REPORT NO.:** 11-1208.07  
**DATE:** December 08,2011  
**PRODUCT CATEGORY:** Hurricane Shutters  
**PRODUCT SUB-CATEGORY:** Storm Panels  
**PRODUCT NAME:** GPP Fabric Shutter-Series 2000  
**MANUFACTURER:** Global Protection Products, LLC  
4800 S.W. 51 Street  
Davie, Florida 33314

### **1. PURPOSE OF EVALUATION:**

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **Global Protection Products, LLC.**, manufacturer, based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

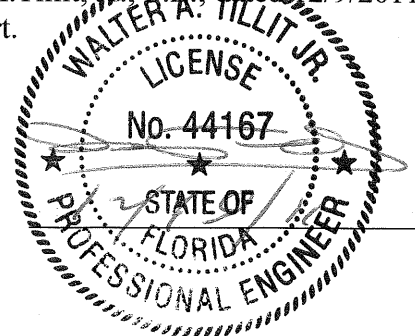
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2010 edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 11-212, titled "**GPP Fabric Shutter-Series 2000**", sheets 1 thru 15 of 15 prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E., dated 12/9/2011. This drawing is an integral part of this Evaluation Report.



**2.2. TEST REPORTS:**

Large missile impact load tests were performed under ASTM E-1886 and ASTM E-1996 standards 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 No. 0904.01-09, dated 02/17/10, witnessed, signed and sealed by Edmundo Largaespada, P.E.

Tensile test report No. 9IM-865/9KM-1127 by QC Metallurgical, Inc., dated November 30, 2009, signed and sealed by Frank Grate, P.E.

Fire Test Report No. 95138.01-106-18 by Architectural Testing Inc, dated 10/15/09, signed and sealed by Joseph A. Reed, P.E.

**2.3. STRUCTURAL ENGINEERING CALCULATIONS:**

On GPP Fabric Shutter-Series 2000 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 09/03/09, signed and sealed by Walter A. Tillit, Jr., P.E.

**3. MISSILE IMPACT RESISTANCE:**

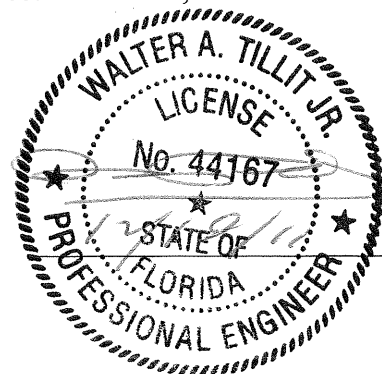
Large missile impact under section 1609.1.2 of the Florida Building Code, as per ASTM E-1996 corresponding to missile type D (basic protection).

**4. WIND LOADS RESISTANCE:**

GPP Fabric Shutter-Series 2000 has been verified to sustain wind pressures. Maximum panel length shall be as indicated on sheet 13 of 15 of Product Evaluation Document (P.E.D.), drawing No. 11-212. Maximum Anchor Spacing shall be as indicated on sheets 14 and 15 of 15, of Product Evaluation Document (P.E.D.), drawing No. 11-212. GPP Fabric Shutter-Series 2000 has been verified for code compliance to work as a non-porous storm shutter assembly, as per section 3.2.8 of ASTM E-1996.

**5. INSTALLATION:**

Installation shall be performed strictly in accordance with details indicated on sheets 4 thru 12 of 15, of Product Evaluation Document (P.E.D.), drawing No. 11-212. Minimum separation to glass shall be as indicated on sheet 13 of 15, of Product Evaluation Document (P.E.D.), drawing No. 11-212.



**6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:**

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 2 and 3 of 15, of Product Evaluation Document (P.E.D.), drawing No. 11-212.

Anchor specifications shall be as indicated on sheets 2, 14 and 15 of 15, of Product Evaluation Document (P.E.D.), drawing No. 11-212.

**7. LIMITATIONS AND CONDITIONS OF USE:**

7.1. Shall be strictly in compliance with General Notes No. 1, 5 thru 12, indicated on sheet 1 of 15 of Product Evaluation Document (P.E.D.), drawing No. 11-212 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, grout filled concrete block, hollow concrete block, steel 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).

