

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

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PRODUCT EVALUATION REPORT

REPORT NO.: 11-1208.10
DATE: December 8, 2011
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.**, manufacturer and member of the American Shutter Systems Association, Inc. (A.S.S.A.), based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

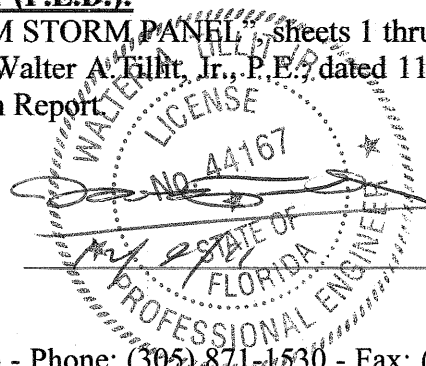
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2010 edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 11-140, 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 11/28/11. 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 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:

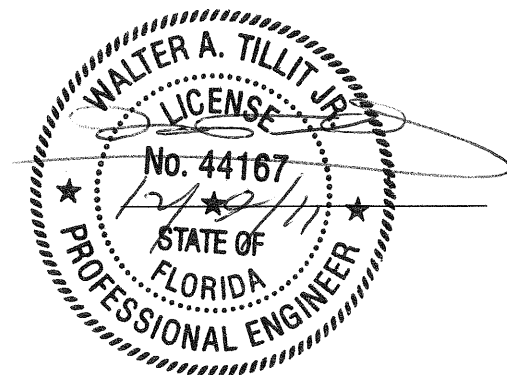
Large missile impact under section 1609.1.2 of the Florida Building Code, as per SSTD 12-99 Standard.

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. 11-140. Maximum Anchor Spacing shall be as indicated on sheets 5, 6 and 7 of 7, of Product Evaluation Document (P.E.D.), drawing No. 11-140. 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. 08-100. Minimum separation to glass shall be as indicated on sheet 4 of 7, of Product Evaluation Document (P.E.D.), drawing No. 11-140.



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. 11-140. 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. 11-140.

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. 11-140 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).

