



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

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

PRODUCT EVALUATION REPORT

REPORT NO.: 20-0806.03

DATE: August 06, 2020

PRODUCT CATEGORY: Hurricane Shutters

PRODUCT SUB-CATEGORY: Roll Up Shutters

PRODUCT NAME: ROLL UP SHUTTER/WIND BORNE DEBRI REGION
RLL-4, RLL-3, A-200-H, A-150-H SLATS

SUBMITTED BY: Rollac Shutters of Texas, Inc.
5331 Orange Street
Pearland, Texas 77581

1. PURPOSE OF EVALUATION:

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

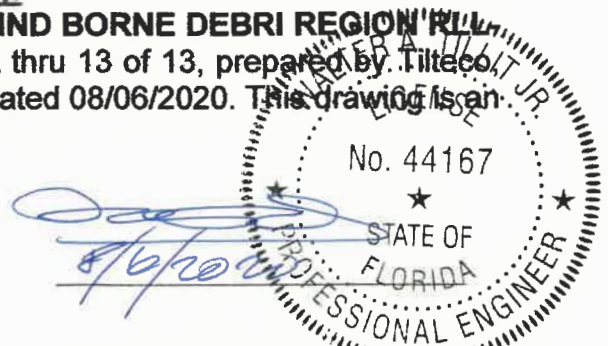
This product is being issued an Evaluation Report as described herein and has been verified for compliance in accordance with the 2020 Seventh Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 20-241 titled "ROLL UP SHUTTER/WIND BORNE DEBRI REGION RLL-4, RLL-3, A-200-H, A-150-H SLATS", sheets 1, 1A thru 13 of 13, prepared by Tiltco Inc.; signed and sealed by Walter A. Tillit, Jr., P.E.; dated 08/06/2020. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Large missile impact and cyclic loading under TAS 201 and TAS 203 Protocols, as per section 1609.1.2 of the Florida Building Code. Uniform Static loads in accordance with TAS 202 Protocol. Test reports prepared by Fenestration Testing Lab, Reports No. 3521, 3522, 3523 and 3524 signed and sealed by Joseph C. Chan, P.E., dated August 7, 2002,

signed by Roberto Robleto, Testing Manager; Hurricane Test Laboratory, Inc. Reports # 0187-0413-99, signed and sealed by Vinu J. Abraham, P.E., dated May 19, 1999; 0187-0423-99, signed and sealed by Vinu J. Abraham, P.E., dated June 16, 1999; 0187-0406-99, signed and sealed by Vinu J. Abraham, P.E., dated April 6, 1999; 0187-0422-99, signed and sealed by Vinu J. Abraham, P.E., dated April 23, 1999; 0187-0408-99, signed and sealed by Vinu J. Abraham, dated April 19, 1999, and 0187-0407-99, signed and sealed by Vinu J. Abraham, dated April 21, 1999.

Testing on Mechanical Properties as per Fenestration Testing Laboratory, Inc. Tensile Test Reports # 3521, 3522, 3523 and 3524 signed by Roberto Robleto, Testing Manager, dated November 27, 2002, as per ASTM B557-94

Testing on Surface Burning Characteristics as per Celotex Report # 520274B, signed and sealed by R.G. Miller, P.E., dated May 28, 1999; # 520274A, signed and sealed by R.G. Miller, P.E., dated May 28, 1999, as per ASTM E 84-98; # 520536, signed and sealed by R.G. Miller, P.E. dated March 2, 2000, as per ASTM D 1929-96.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

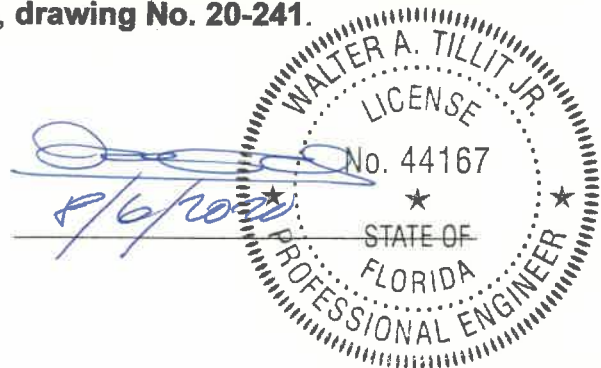
On Roll-Up Shutter for maximum shutter span vs. design wind load, as well as maximum anchor spacing vs. design wind load and shutter span including storm bars, headers and mullions based on rational and comparative analysis, and in accordance with sections 1604 and 2002 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated June 27, 2005, amended April 4, 2008, signed and sealed by Walter A. Tillit, Jr., P.E., and on August 21, 2017.

3. MISSILE IMPACT RESISTANCE:

Large missile impact under section 1609.1.2 of the Florida Building Code, as per TAS 201 Protocol, applicable to type 1 thru type 3 slats, and small missile impact applicable to type 4 slat.

4. WIND LOADS RESISTANCE:

Slat Roll-Up Shutter has been verified to sustain wind pressures. Maximum Shutter Span shall be as indicated on sheets 10 thru 13 of 13 of Product Evaluation Document (P.E.D.), **drawing No. 20-241** Maximum Anchor Spacing shall be as indicated on sheets 4 thru 9 of 13 of Product Evaluation Document (P.E.D.), **drawing No. 20-241**.



5. INSTALLATION:

Shall be performed strictly in accordance with the details indicated on sheets 4 thru 9 of 13 of Product Evaluation Document (P.E.D.), **drawing No. 20-241**. Minimum separation to glass shall be as indicated on sheets 4 thru 8 of 13 of Product Evaluation Document (P.E.D.), **drawing No. 20-241**.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1 and 2 of 13 of Product Evaluation Document (P.E.D.), **drawing No. 20-241**. Anchor specifications shall be as indicated on sheets 1, 4 thru 9 and 13 of 13 of Product Evaluation Document (P.E.D.), **drawing No. 20-241**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1, 5, 6 and 9 thru 14, indicated on sheet 1 of 13, of Product Evaluation Document (P.E.D.), **drawing No. 20-241** 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, as limited and defined on Product Evaluation Document No. 20-241.

Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida CA-0006719).

WATLL

D:\TILTECO ADMON RECORDS\ P. E. REPORT.20\ROLLAC SHUTTERS OF TEXAS, INC.\ROLL UP SHUTTER\WIND BORNE DEBRI REGION RLL-4, RLL-3, A-200-H, A-150-H SLATS\RLL-4, RLL-3, A-200-H, A-150-H SLATS\ DRWG # 20-241\ REPORT # 20.0806.03

