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PRODUCT EVALUATION REPORT

REPORT NO.: 20-0806.05
DATE: August 06, 2020
PRODUCT CATEGORY: Hurricane Shutters
PRODUCT SUB-CATEGORY: Roll Up Shutters
PRODUCT NAME: RLL55-X SLAT NON-END RETENTION ROLL UP SHUTTER
SUBMITTED BY: Rollac Shutter of Texas, Inc.
5331 Orange Street
Pearland, TX77581

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.

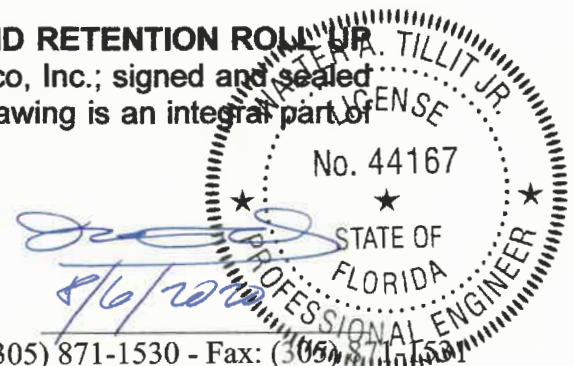
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2020 Seventh Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 20-243, titled "**RLL55-X SLAT NON-END RETENTION ROLL UP SHUTTER**", sheets 1 thru 11 of 11, prepared by Tilteco, 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 ASTM E-1996 and E-1886 Standards, as per section 1609.1.2 of the Florida Building Code. Uniform Static loads in accordance with ASTM E 330, as per Section 1709.5.2 of the Florida Building Code. Test reports prepared by Fenestration Testing Laboratory, Reports No. 6242 and 6244, signed and sealed by Carlos S. Rionda, P.E. dated 03/17/09 and dated 03/16/09, respectively.

Test on storm Bars, as per Hurricane Testing Lab Inc Report # 0817-0413-99, signed and sealed by Vinu J. Abraham, P.E. dated 5/19/99.

Tensile Tests on Mechanical Properties of Slat, as per Fenestration Testing Laboratory, Report No. 5908, dated 03/17/09, signed and sealed by Carlos S. Rionda, P.E., per ASTM B 557-06 and on stainless steel retaining screw, as per lab report No. 5932, dated April 13, 2009, signed and sealed by Manny Sanchez.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On RLL55-X Slat Non End Retention Roll Up Shutter for shutter span vs. design wind load, as well as 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 09/18/10, 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 ASTM E-1996 and E-1886 Standards with missile level D (Basic protection).

4. WIND LOADS RESISTANCE:

RLL55-X Slat Non-End Retention Roll Up Shutter has been verified to sustain wind pressures corresponding to wind zones 1 thru 4, per ASTM E-1996 Standard. Slat Span shall be as indicated on sheets 10 and 18 of Product Evaluation Document (P.E.D.), **drawing No. 20-243**. Maximum Anchor Spacing at side rails shall be as indicated on sheet 11 of Product Evaluation Document (P.E.D.), **drawing No. 20-243**. Storm Bars, Headers and Mullions span shall be as indicated on sheets 10 and 11 of Product Evaluation Document (P.E.D.), **drawing # 20-243**.

5. INSTALLATION:

Shall be strictly performed in accordance with details indicated on sheets 4 thru 9 of Product Evaluation Document (P.E.D.), **drawing No. 20-243**. Minimum separation to glass shall be as indicated on sheet 10 of Product Evaluation Document (P.E.D.), **drawing No. 20-243**.



6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 2 and 3 of Product Evaluation Document (P.E.D.), **drawing No. 20-243**. Anchor specifications shall be as indicated on sheets 1, 5 thru 9 of Product Evaluation Document (P.E.D.), **drawing No. 20-243**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 8 and 13 thru 14, indicated on sheet 1, as well as details and notes on sheets 12 and 18 of Product Evaluation Document (P.E.D.), **drawing No. 20-243** 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. 20-243.

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

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