



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

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PRODUCT EVALUATION REPORT

REPORT NO.: 25-0619.05
DATE: June 19, 2025
PRODUCT CATEGORY: Impact Protection System
PRODUCT SUB-CATEGORY: Operable
PRODUCT NAME: RLL55-X SLAT END RETENTION IMPACT PROTECTIVE SYSTEMS
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.

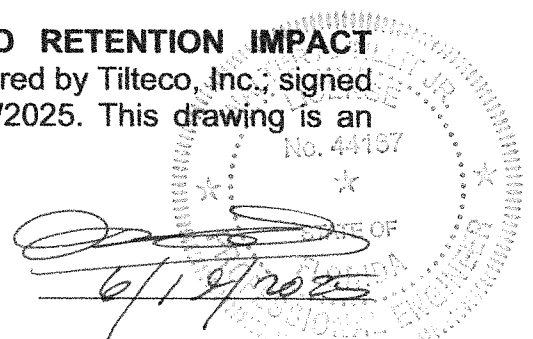
This product is being issued an Evaluation Report as described herein and has been verified for compliance in accordance with the 2023 (8th Edition) of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 25-055, titled "RLL55-X SLAT END RETENTION IMPACT PROTECTIVE SYSTEM", sheets 1 thru 19 of 19 prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E.; dated 06/19/2025. 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. 5908 and 5905, signed and sealed by Carlos S. Rionda, P.E. dated 03/17/09 and dated 03/16/09, respectively, and Report No. 6235, dated 04/14/2010, signed and sealed by Mr. Jorge A. Causo, P.E.

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 and Tensile Test Report No. 6235, dated 04/14/2010, and signed and sealed by Mr. Jorge A. Causo.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On RLL55-X Slat End Retention Impact Protective System for slat span vs. design wind load, as well as anchor spacing vs. design wind load and shutter span including 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 01/15/09, signed and sealed by Walter A. Tillit, Jr., P.E., and on August 21, 2017.

3. MISSILE IMPACT RESISTANCE:

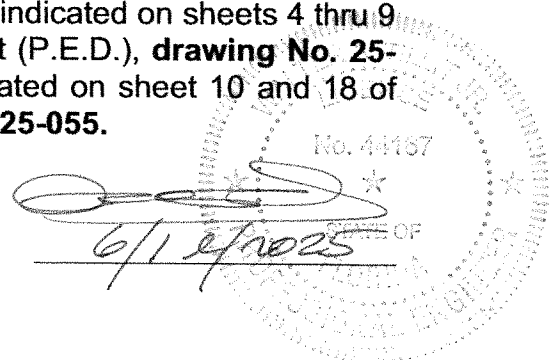
Large missile impact under section 1609.1.2 of the Florida Building Code, as per ASTM E-1996 and E-1886 Standards with missile level D (Basic protection).

4. WIND LOADS RESISTANCE:

RLL55-X Slat End Retention Impact Protective System 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. 25-055**. Maximum Anchor Spacing at side rails shall be as indicated on sheet 11 and 19 of Product Evaluation Document (P.E.D.), **drawing No. 25-055**. Mullions span shall be as indicated on sheets 15, 16 and 17 of Product Evaluation Document (P.E.D.), **drawing No. 25-055**.

5. INSTALLATION:

Shall be strictly performed in accordance with details indicated on sheets 4 thru 9 including 13 and 14 of Product Evaluation Document (P.E.D.), **drawing No. 25-055**. Minimum separation to glass shall be as indicated on sheet 10 and 18 of Product Evaluation Document (P.E.D.), **drawing No. 25-055**.



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. 25-055**. Anchor specifications shall be as indicated on sheets 1, 5 thru 8 including 13 and 14 of Product Evaluation Document (P.E.D.), **drawing No. 25-055**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1 and 9 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. 25-055** prepared by Tilteco, Inc. and signed and sealed by Walter A. Tillit, Jr., P.E.

7.2. Product may be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 202 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. 25-055**.

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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RETENTION IMPACT PROTECTIVE SYSTEM\ DRWG # 25-055\ REPORT # 25-0619.05

