



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

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PRODUCT EVALUATION REPORT

REPORT NO.: 20-0813.01

DATE: August 13, 2020

PRODUCT CATEGORY: Impact Protective Systems

PRODUCT SUB-CATEGORY: Operable

PRODUCT NAME: **IMPACT PROTECTIVE ROLLING SYSTEM
WITH CHD- 6 SLAT (END RETENTION)**

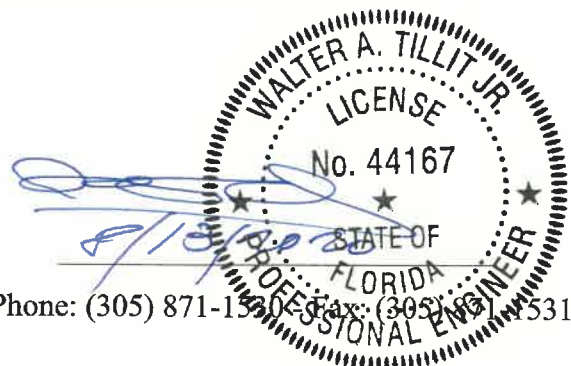
SUBMITTED BY: **National Approved Shutter Association**
15701 SW 29 ST #100.
Miramar, FL 33027

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **National Approved Shutter Association**, based on **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. 20-251, titled "IMPACT PROTECTIVE ROLLING SYSTEM WITH CHD- 6 SLAT (END RETENTION)", sheets 1 thru 22 of 22, including 10A, 14A (Total = 23 sheets) prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E.; dated 08/13/2020. This drawing is an integral part of this Evaluation Report.

2.2. TEST REPORTS:

Large missile impact and cyclic loading under TAS 201 & TAS 203 Protocols, as per section 1626 of the Florida Building Code. Uniform Static loads in accordance with Protocol TAS 202 of the Florida Building Code. Test reports prepared by Blackwater Testing Inc. Report No. BT-JUP-19-001, signed and sealed by Constantin Bortes, P.E. dated 05/16/2019.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On "Impact Protective Rolling System with CHD- 6 Slat (end retention)" for Maximum span vs. design wind load, as well as anchor spacing vs. design wind load and Abatement span including mullions, based on rational and comparative analysis, and in accordance with sections 1616 and 2003 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 12/21/2018, signed and sealed by Walter A. Tillit, Jr., P.E., and on June 14, 2019.

3. MISSILE IMPACT RESISTANCE:

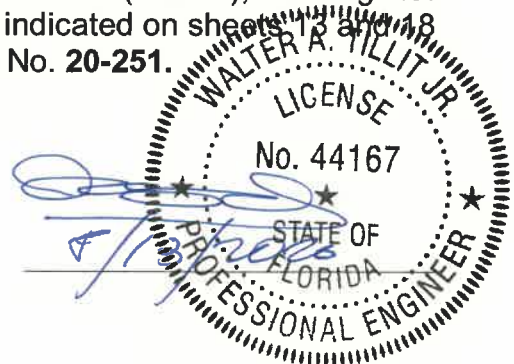
Large missile impact under section 1626 of the Florida Building Code, as per TAS 201 Protocol (Large Missile), 50Ft/Sec, 9Lb 2" X 4".

4. WIND LOADS RESISTANCE:

"Impact Protective Rolling System with CHD- 6 Slat (end retention)" has been verified to sustain wind pressures. Slat Span shall be as indicated on sheets 13 and 18 of Product Evaluation Document (P.E.D.), drawing No. 20-251. Maximum Anchor Spacing shall be as indicated on sheets 14, 14A, 15 and 16 of Product Evaluation Document (P.E.D.), drawing No. 20-251. Mullion span shall be as indicated on sheets 20 thru 22 of Product Evaluation Document (P.E.D.), drawing # 20-251.

5. INSTALLATION:

Shall be strictly performed in accordance with the details indicated on sheets 4, 5, 6, 7, 8, 9, 10, and 11 of Product Evaluation Document (P.E.D.), drawing No. 20-251. Minimum separation to glass shall be as indicated on sheets 12 and 18 of Product Evaluation Document (P.E.D.), drawing No. 20-251.



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. **20-251**. Anchor specifications shall be as indicated on sheets 1, 7, 8, 9, 10, 11 of Product Evaluation Document (P.E.D.), drawing No. **20-251**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No.1, 2 and 11 thru 16 , indicated on sheet 1, as well as details and notes on sheet 18 of Product Evaluation Document (P.E.D.), drawing No. **20-251** 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 1620.2 of the Florida Building Code.

7.3. Product shall only be installed into poured concrete, grouted cell concrete block, and wood frame structures, as limited and defined on Product Evaluation Document No. **20-251**.

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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