



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

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PRODUCT EVALUATION REPORT

REPORT NO.: 20-0716.03
DATE: July 16, 2020
PRODUCT CATEGORY: Shutters
PRODUCT SUB-CATEGORY: Roll Up Shutters
PRODUCT NAME: STUDIO STAR 40 MM ROLL-UP SHUTTER
SUBMITTED BY: Alutech United, Inc.
15 Dixon St.
Selbyville, DE 19975

1. PURPOSE OF EVALUATION:

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

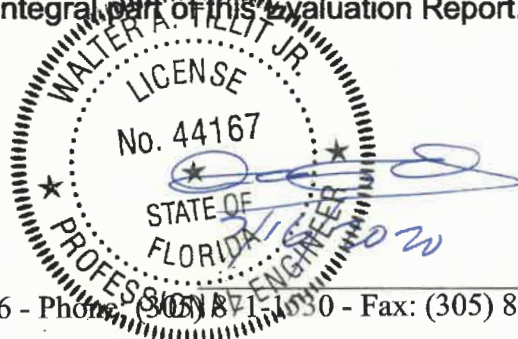
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2020 Seventh Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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 20-202, titled "**STUDIO STAR 40 MM ROLL-UP SHUTTER**", sheets 1 thru 5 of 5, prepared by Tilteco, Inc.; signed and sealed by **Walter A. Tillit, Jr., P.E.**; dated 07/15/2020. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Large missile impact and cyclic loading under ASTM E-1886 and ASTM E-1996 Protocols, 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 Architectural Testing

Lab, Report No. 49124.01-122-44 signed and sealed by Joseph A. Reed, P.E. dated July 27, 2004.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Studio Star 40 mm Roll-Up Shutter for maximum shutter span vs. design wind load, as well as maximum anchor spacing vs. design wind load and shutter span based on rational and comparative analysis, and in accordance with sections 1604 and 2003 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated October 4, 2004, signed and sealed by Walter A. Tillit, Jr., P.E., and on August 22, 2017.

3. MISSILE IMPACT RESISTANCE:

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

4. WIND LOADS RESISTANCE:

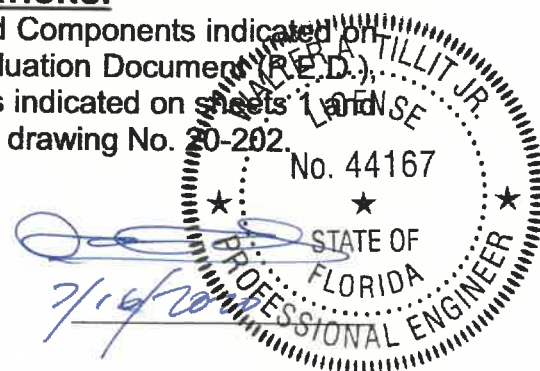
Studio Star 40 mm Roll-Up Shutter has been verified to sustain wind pressures for installations within wind zones 1, 2 and 3, per section 6.2.2 of ASTM E-1996 Standard. Maximum Shutter Span shall be as indicated on sheet 2 thru 5 of Product Evaluation Document (P.E.D.), drawing No. 20-202. Maximum Anchor Spacing shall be as indicated on sheets 4 and 5 thru 5 of 5 of Product Evaluation Document (P.E.D.), drawing No. 20-202.

5. INSTALLATION:

Shall be performed strictly in accordance with the details indicated on sheets 1 thru 5 of 5 of Product Evaluation Document (P.E.D.), drawing No. 20-202. Minimum separation to glass shall be as indicated on sheets 4 and 5 of 5 of Product Evaluation Document (P.E.D.), drawing No. 20-202.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, and sheets 3 through 5 of 5 of Product Evaluation Document (P.E.D.), drawing No. 20-202. Anchor specifications shall be as indicated on sheets 1 and 4 thru 5 of 5 of Product Evaluation Document (P.E.D.), drawing No. 20-202.



7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1, 2, 6, 7, 10 thru 15, indicated on sheet 1 of 5, of Product Evaluation Document (P.E.D.), drawing No. 20-202 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, and shall only be installed within wind zones 1, 2 or 3, as defined by ASTM E-1996 Standard.

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. 20-202.

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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SHUTTER \ DRWG # 20-202 \ REPORT # 20-0716.03

