



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

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PRODUCT EVALUATION REPORT

REPORT No.: 23-074.03

DATE: July 14, 2023

PRODUCT CATEGORY: Window

PRODUCT SUB-CATEGORY: Projected

PRODUCT NAME: SERIES ZS-2750 PROJECT OUT ALUMINUM
WINDOW SYSTEM LARGE MISSILE
IMPACT RESISTANT

MANUFACTURER: Oldcastle Building Envelope™
803 Airport RD. Terrell, TX 75160

1. PURPOSE OF EVALUATION:

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

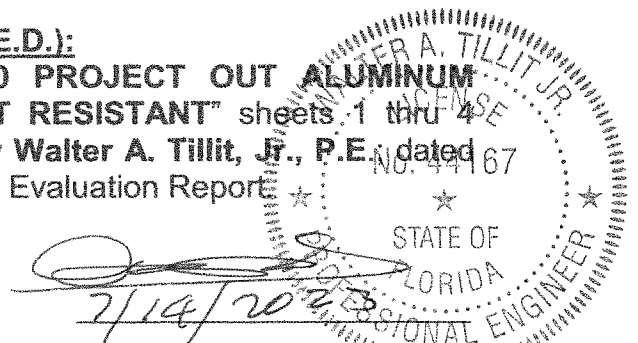
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2023 Eighth Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 23-088 titled "SERIES ZS-2750 PROJECT OUT ALUMINUM WINDOW SYSTEM LARGE MISSILE IMPACT RESISTANT" sheets 1 thru 4 prepared by **Tilteco, Inc.**; signed and sealed by **Walter A. Tillit, Jr., P.E.** dated 7/14/2023. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Impact and Cyclic Tests as per protocol TAS-201 and TAS-203, and Uniform Static Load as per Protocol TAS 202 per sections 1626 and 1609.1.2 of the Florida Building Code.

Test report prepared by **Architectural Testing, Inc. Lab, Report No. 94443.02-801-18**, signed and sealed by Joseph A. Reed, P.E.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On "**Series ZS-2750 Project Out Aluminum Window System Large Missile Impact Resistant**" for Maximum Pressure Rating vs. Maximum anchor spacing, maximum Vertical and Horizontal Dimensions, and Maximum Glass Size, based on rational, comparative analysis and ASTM E-1300, and in accordance with sections 1604, 1616 and 2404.01 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 02/05/10, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

Large Missile Impact resistance is provided per TAS 201 Protocol (9 lbs, 50 feet/sec, Large Missile).

4. WIND LOADS RESISTANCE:

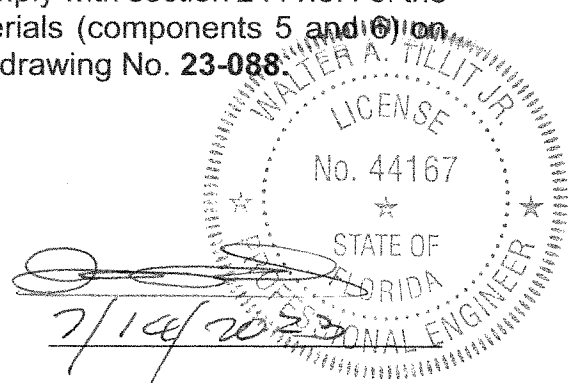
Series "**Series ZS-2750 Project Out Aluminum Window System Large Missile Impact Resistant**" has been verified to sustain wind pressures. Maximum Glass Panel Dimensions, Vertical & Horizontal Dimensions shall be as indicated on sheets 1 and 4 of Product Evaluation Document (P.E.D.), Drawing No. **23-088**.

Maximum Design Pressure Rating for Sill and Jamb Connections for applicable substrates shall be as indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **23-088**.

5. INSTALLATION:

Installation shall be performed strictly in accordance with General Notes # 1, 2, 4 thru 14, indicated on sheet 1 and details indicated on sheets 3 and 4, of Product Evaluation Document (P.E.D.), drawing No. **23-088**.

Gaskets and setting blocks used at installations comply with section 2411.3.4 of the Florida Building Code as specified on Bill of Materials (components 5 and 6) on Sheet 3 of Product Evaluation Document (P.E.D.), drawing No. **23-088**.



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. **23-088**.

Anchor specifications shall be as indicated on sheet 1, of Product Evaluation Document (P.E.D.), Drawing No. **23-088**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1, 8, 10, 12 and 14, indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **23-088** 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 and out of it.

7.3. Product shall only be installed into 1/8" thick aluminum or steel structures with limitations indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **23-088**.

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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OUT ALUMINUM WINDOW SYSTEM LARGE MISSILE IMPACT RESISTANT \ DRWG # 23-088 \ REPORT # 23-0714.03

