

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

tilteco@aol.com
FL P.E. License No. 44167
FL C.A. License No. 0006719

PRODUCT EVALUATION REPORT

REPORT NO.: 23-0721.21
DATE: July 21, 2023
PRODUCT CATEGORY: Exterior Doors
PRODUCT SUB-CATEGORY: Swinging Exterior Door Assemblies
PRODUCT NAME: OUTSWING & INSWING SINGLE & DOUBLE
LARGE MISSILE IMPACT CUSTOM WOOD
DOORS (GLAZED OR WOOD PANELS),
CASES I, II & III
SUBMITTED BY: SUN MOUNTAIN CUSTOM DOORS, Inc
140 COMMERCE DRIVE
BERTHOUD, COLORADO 80513

1. PURPOSE OF EVALUATION:

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

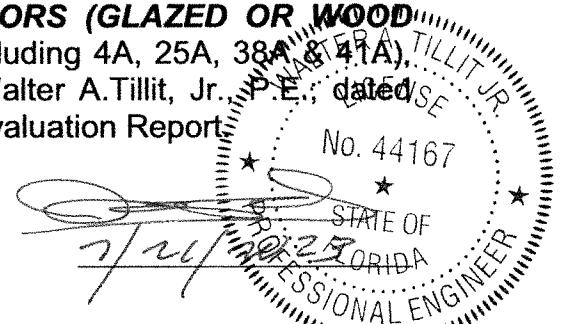
This product is being issued an Evaluation Report as described herein and has been verified for compliance in accordance with the 2023 8th Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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 23-125, titled "OUTSWING & INSWING SINGLE & DOUBLE LARGE MISSILE IMPACT CUSTOM WOOD DOORS (GLAZED OR WOOD PANELS)", CASES I, II & III, sheets 1 thru 57 (Including 4A, 25A, 38A & 41A), prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E., dated 7/21/2023,. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Large missile impact and cyclic loading under Florida TAS 201 and 203 Protocols, as per sections 1626 & 1609.1.2 of the Florida Building Code. Uniform Static loads in accordance with and Protocol TAS 202. Test reports prepared by BlackWater Technical Services, Inc, Report No. **BT-SMC-22-001**, dated 04/14/2022, signed & sealed by Michael Caldwell P.E.,

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Product for maximum anchor spacing vs. design wind load and Product Dimensions based on rational and comparative analysis, and in accordance with sections **1616** and **1604** of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 03/09/2021, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

Large missile impact under section 1626 of the Florida Building Code, as per Protocol TAS 201 (2"x4" missile, 50ft/sec).

4. WIND LOADS RESISTANCE:

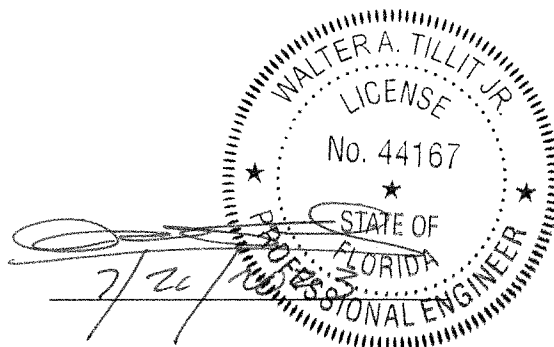
Product has been verified to sustain wind pressures. Maximum Product Dimensions and ASD Design Pressure rating shall be as indicated on Product Evaluation Document (P.E.D.), Drawing No. **23-125**. Maximum Anchor Spacing shall be as indicated on Product Evaluation Document (P.E.D.), drawing No. **23-125**

5. INSTALLATION:

Shall be performed strictly in accordance with the details indicated on sheets 4A thru 40, 45 thru 48 & 52 thru 57 of Product Evaluation Document (P.E.D.), drawing No. **23-125**.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1 thru 4, of Product Evaluation Document (P.E.D.), Drawing No. **23-125**. Anchor specifications shall be as indicated on sheets 2 of Product Evaluation Document (P.E.D.), drawing No. **23-125**



7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No.1 thru 11, indicated on sheet 1 of Product Evaluation Document (P.E.D.), drawing No **23-125** 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, or out of it.

7.3. Product shall only be installed into poured concrete, concrete block and wood, Aluminum or Steel structures, limited and defined on Product Evaluation Document No. **23-125**

7.4. Max Design Pressure rating shall be as indicated on general NOTE 2, sheet 1 of Product Evaluation Document (P.E.D) # **23-125**

7.5 Installation combinations shall be as per sheet 57 of Product Evaluation Document (P.E.D.) # **23-125**.

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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LARGE MISSILE IMPACT CUSTOM WOOD DOORS \ DRWG #23-125 \ Report 23-0721.21

