

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

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PRODUCT EVALUATION REPORT

REPORT NO.: 23-0817.14

DATE: August 17, 2023

PRODUCT CATEGORY: Panel Walls

PRODUCT SUB-CATEGORY: Products Introduced as A Result of New Technology

PRODUCT NAME: CasArmor EXTERIOR WALL PANEL SYSTEM

MANUFACTURER: CasArmor, LLC
2525 Opa-Locka Blvd
Opa-Locka, FL 33054

1. PURPOSE OF EVALUATION:

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

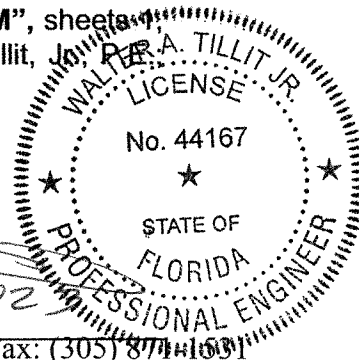
This product is being issued an Evaluation Report as described herein and has been verified for compliance in accordance with the 2023 8th Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 23-189 titled "**CasArmor EXTERIOR WALL PANEL SYSTEM**", sheets 1 thru 10 of 10 prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E., dated 8/17/2023. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Large missile impact and cyclic load tests were performed per sections 1626 & 1609.1.2 of the Florida Building Code. Uniform Static loads as per TAS 202 Protocol. Tensile Compression and Racking loads as for ASTM E-72. Test reports prepared by Blackwater Technical Services, Inc. Report No. BT-TIC-20-001, dated 06/04/2020, signed and sealed by Michael Caldwell, P.E., and American Test Lab of South Florida Report #0106.01-21, dated on 1/20/2021, signed & sealed by Mr. Stephen Warter, P.E.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On **CasArmor EXTERIOR WALL PANEL SYSTEM** for maximum panel length vs. design wind load, compression, tension, & racking as well as maximum anchor spacing vs. design wind load and panel length based on rational and comparative analysis in accordance with sections 1604 & 1616 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 09/22/2020 and 02/02/2021, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

Large missile impact under sections 1609.1.2 & 1626 of the Florida Building Code, as per TAS 201 Missile. High Velocity Hurricane Zone Protocol, for 9 Lbs, 2" x 4" , 50 ft/sec missile.

4. WIND LOADS RESISTANCE:

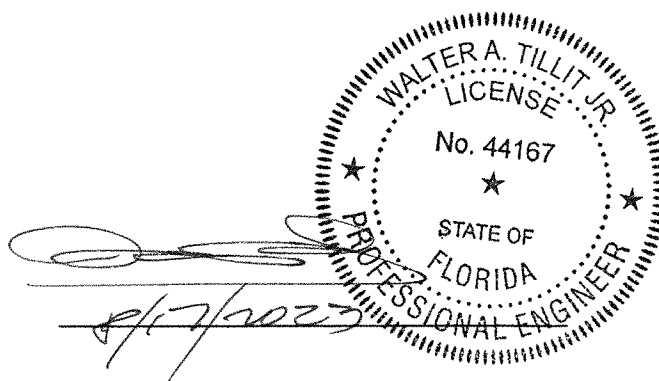
CasArmor EXTERIOR WALL PANEL SYSTEM has been verified to sustain wind pressures. Maximum panel length shall be as indicated on sheets 1, 4, 5 & 7 of Product Evaluation Document (P.E.D.), **drawing No. 23-189**. Maximum Anchor Spacing shall be as indicated on sheets 4 thru 10 of Product Evaluation Document (P.E.D.), **drawing No. 23-189**. Additional allowables for Compression, Tension & Racking Loads shall be as indicated on Note # 7, sheet 1 of Product Evaluation Document (P.E.D) **Drawing # 23-189**

5. INSTALLATION:

Installation shall be performed strictly in accordance with details indicated on sheets 4 thru 10 of Product Evaluation Document (P.E.D.), **drawing No. 23-189**.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 2, 3 of Product Evaluation Document (P.E.D.), **Drawing No. 23-189**. Anchor specifications shall be as indicated on sheets 1 and 2 of Product Evaluation Document (P.E.D.), **Drawing No. 23-189**



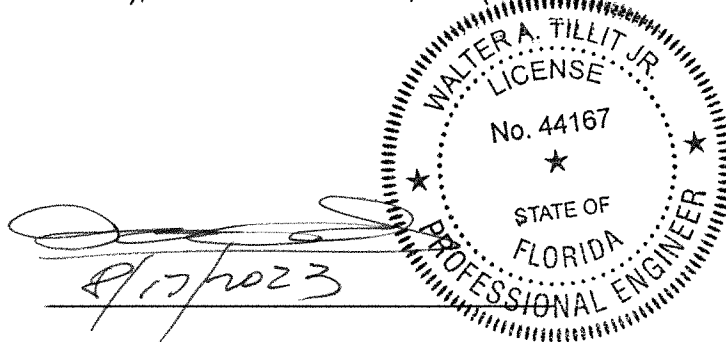
7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1 thru 3, 7 thru 10, indicated on sheet 1, of Product Evaluation Document (P.E.D.), **drawing No. 23-189** 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 at bottom into poured concrete structures. Installation at top shall be as indicated on Note # 7, sheet 1 of Product Evaluation Document (P.E.D) **Drawing # 23-189.**

Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida CA-0006719).

A circular professional engineer seal for the State of Florida, License No. 44167, is stamped over a handwritten signature. The seal contains the text "WALTER A. TILLIT JR.", "LICENSE", "No. 44167", "STATE OF FLORIDA", and "PROFESSIONAL ENGINEER". The signature is written in cursive and includes the date "8/17/2023".

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