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## **PRODUCT EVALUATION REPORT**

**REPORT NO.:** 23-0714.08

**DATE:** July 14, 2023

**PRODUCT CATEGORY:** Structural Components

**PRODUCT SUB-CATEGORY:** Products introduced as a result of new Technology

**PRODUCT NAME:** **MODEL WDV-130 VERTICAL ALUMINUM LOUVER SYSTEM**

**SUBMITTED BY:** **United Enertech Holdings LLC.**  
3005 South Hickory Street  
Chattanooga, TN 37407

### **1. PURPOSE OF EVALUATION:**

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

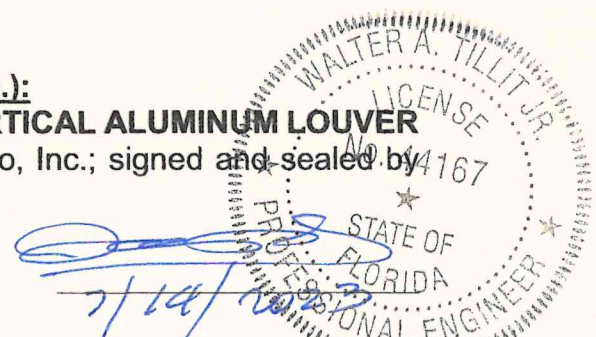
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2023 Eighth Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 23-094**, titled **"MODEL WDV-130 VERTICAL ALUMINUM LOUVER SYSTEM"**, sheets 1 thru 6 of 6, 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:**

Large missile impact and cyclic loadings under Protocols TAS 201 and 203, per sections 1626 and 1609.1.2 of the Florida Building Code, and AMCA 540.

Uniform Static loads in accordance with Protocol TAS 202. High Velocity Wind Driven rain per AMCA 550 AND TAS 100(A).

Test Reports prepared by Construction Materials Technologies, LLC Reports #1697T0001.01, #1697T0001.03 and #1697T0001.02 respectively, dated October 15-18-2019 signed and sealed by Mr. Zachary Priest, P.E.

## **2.3. STRUCTURAL ENGINEERING CALCULATIONS:**

On Model WDV-130 Vertical Aluminum Louver System for maximum vertical span vs. design wind load, as well as maximum anchor spacing vs. design wind load and louver span 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 09/24/2019, signed and sealed by Walter A. Tillit, Jr., P.E.

## **3. MISSILE IMPACT RESISTANCE:**

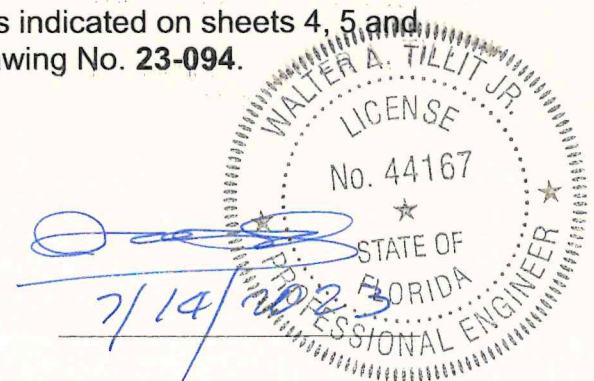
Large missile impact under sections 1626 and 1609.1.2 of the Florida Building Code, as per Protocol TAS 201, and AMCA 540, per section 1609.1.2.1. of the Florida Building Code.

## **4. WIND LOADS RESISTANCE:**

Model WDV-130 Vertical Aluminum Louver System has been verified to sustain wind pressures. Maximum Vertical Span shall be as indicated on sheet 3 of 6 of Product Evaluation Document (P.E.D.), Drawing No. **23-094**. Maximum Anchor Spacing shall be as indicated on sheets 4 and 5 of 6 of Product Evaluation Document (P.E.D.), drawing No. **23-094**.

## **5. INSTALLATION:**

Shall be performed strictly in accordance with details indicated on sheets 4, 5 and 6 of 6 of Product Evaluation Document (P.E.D.), drawing No. **23-094**.



**6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:**

Shall be strictly in accordance with General Notes and Components indicated on sheets 1 and 2 of 6 of Product Evaluation Document ( P.E.D.), drawing No. **23-094**. Anchor specifications shall be as indicated on sheet 1 of 6 of Product Evaluation Document (P.E.D.), drawing No. **23-094**.

**7. LIMITATIONS AND CONDITIONS OF USE:**

7.1. Shall be strictly in compliance with General Notes No. 1, 6, 7, thru 10 indicated on sheet 1 of 6, of Product Evaluation Document ( P.E.D.), Drawing No **23-094** 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 poured concrete, grouted concrete block, wood frame and steel or aluminum substrates as per note 5, sheet 1 of 6 or Drawing # **23-094**.

**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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VERTICAL ALUMINUM LOUVER SYSTEM \ DRWG # 23-094 \ REPORT # 23-0714.08

