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PRODUCT EVALUATION REPORT

REPORT NO.: 23-0714.09

DATE: July 14, 2023

PRODUCT CATEGORY: Structural Components

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

PRODUCT NAME: **MODEL D-HV-9 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.**

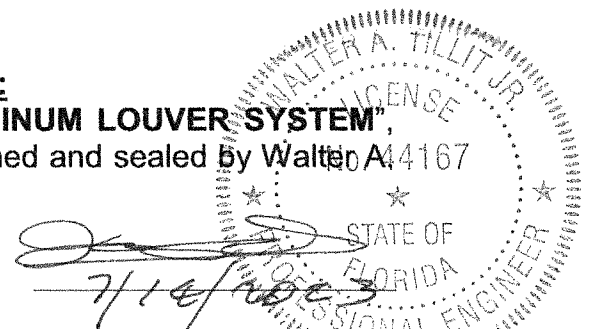
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2023 Eighth Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 23-095 titled **"MODEL D-HV-9 ALUMINUM LOUVER SYSTEM"**, sheets 1 thru 11 of 11, prepared by Tilteco, Inc.; signed and sealed by **Walter A. Tillit, Jr., P.E.**



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. and INTERTEK Testing Lab Report #L4545.01-550-18R0 signed and sealed by Mr. Vinu Abraham, P.E. dated on 11/23/2020.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Model D-HV-9 Aluminum Louver System for maximum horizontal and 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 and 1/12/2021, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

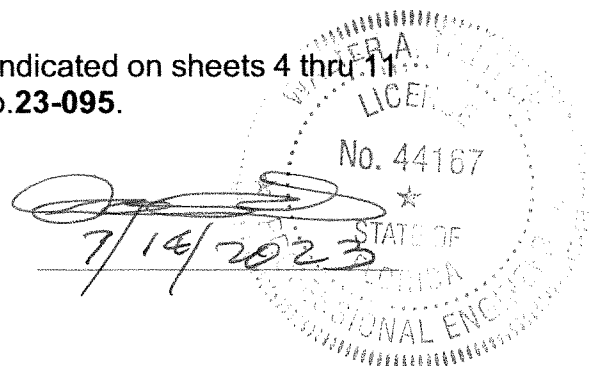
Large missile impact under sections 1626 and 1609.1.2 of the Florida Building Code, as per Protocol TAS 201, and AMCA 540, per section 1609.1.2.1. of the Florida Building Code.(50 Ft/Sec, 9lbs 2"x4", on rear WDV-130 System)

4. WIND LOADS RESISTANCE:

Model D-HV-9 Aluminum Louver System has been verified to sustain wind pressures. Maximum Span shall be as indicated on sheets 4 & 5 of Product Evaluation Document (P.E.D.), Drawing No. **23-095**. Maximum Anchor Spacing shall be as indicated on sheets 6 thru 9 of Product Evaluation Document (P.E.D.), drawing No.23-095.

5. INSTALLATION:

Shall be performed strictly in accordance with details indicated on sheets 4 thru 11 of Product Evaluation Document (P.E.D.), drawing No.**23-095**.



6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1 and 2 of Product Evaluation Document (P.E.D.), drawing No. **23-095**. Anchor specifications shall be as indicated on sheets 1, and 6 thru 9 of Product Evaluation Document (P.E.D.), drawing No. **23-095**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1, 5 thru 9 indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **23-095** 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 substrates as per note 4, sheet 1 of Drawing No. **23-095**.

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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7/14/2023