

## **ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT**

August 8, 2023

Application Number: FL 24546.1  
EX Project Number: 23-63451

Product Manufacturer: Miami Tech, Inc.  
Manufacturer Address: 3611 NW 74th St  
Miami, FL

Product Name & Description: Aluminum Stands for Mechanical Units  
AS14

### ***Scope of Evaluation:***

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1(d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with the Florida Building Code 8<sup>th</sup> Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

### ***Substantiating Data:***

- **PRODUCT EVALUATION DOCUMENTS**

EX drawing #23-61587 titled "Aluminum Stands for Mechanical Units", sheets 1-5, prepared by Engineering Express, signed & sealed by Richard Neet, PE is an integral part of this Evaluation Report.

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis per the 2020 Aluminum Design Manual to qualify the following design criteria:

1. Maximum Allowable Pressures
2. Component Properties & Capacities
3. Anchor Capacities

No 33% increase in allowable stress has been used in the design of this product.

Miami-Tech, Inc. — Aluminum Stands for Mechanical Units

### ***Impact Resistance:***

Large and/or small missile Impact Resistance has NOT been demonstrated and is NOT accounted for in the engineering design of this product.

### ***Wind Load Resistance***

This product has been designed to resist wind loads as indicated in the pressure schedule(s) on the respective Product Evaluation Document (i.e. engineering drawing).

### ***Installation***

This product shall be installed in strict compliance with its respective Product Evaluation Document (i.e. engineering drawing), along with all components noted therein.

Product components shall be of the material specified in that product's respective Product Evaluation Document (i.e. engineering drawing).

### ***Limitations & Conditions of Use:***

Use of this product shall be in strict accordance with the respective Product Evaluation Document (i.e. engineering drawing as noted herein).

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in this product's installation instructions. Host structure conditions which are not accounted for in this product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

This product has been designed for use within and outside the High Velocity Hurricane Zone (HVHZ).

Respectfully,

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Richard Neet, PE  
**ENGINEERING EXPRESS®**  
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