



## ENGINEERING EXPRESS® PRODUCT EVALUATION REPORT

September 30, 2020

Application Number: FL 15085.1-R4  
EX Project Number: 20-32167

Product Manufacturer: Four Seasons Building Products  
Manufacturer Address: 7815 American Way  
Groveland, FL 34736

Product Name & Description: 4in x 0.032 x 1.5 # Alum Roof Panel

### ***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 standard ASCE 7 (ASD) and Florida Building Code Seventh Edition (2020) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

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

- **PRODUCT EVALUATION DOCUMENTS**

EX Installation Drawing #20-32167 titled "EPS Foam Core Panels" (1 page) prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, PE is an integral part of this Evaluation Report.

- **TEST REPORTS**

Ultimate test loading structural performance has been tested in accordance with TAS 201-94, TAS 202-94, TAS 203-94, ASTM E8/A370 or B557 standards per test report(s) CTLA 1844W, CTLA 1844W-1, CTLA 1844W-2, CTLA 1844W-3, CTLA 1844W-Tensile Test Results by Certified Testing Laboratories; Signed and Sealed by Ramesh Patel, P.E.

- **STRUCTURAL ENGINEERING CALCULATIONS**

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

1. Maximum Allowable Spans

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

## Four Seasons Building Products - 4in x 0.032 x 1.5 # Alum Roof Panel

### **Impact Resistance:**

Large Missile and Small Missile impact Resistance has been demonstrated per the test reports listed above.

### **Wind Load Resistance**

This product has been designed to resist wind loads as indicated on its respective Product Evaluation Document (i.e. engineering document).

### **Installation**

The product listed above shall be installed in strict compliance with the Product Evaluation Document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Product Evaluation Document (i.e. engineering document).

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

Use of each product shall be in strict accordance with its respective Product Evaluation Document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each 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. Any alteration to the respective Product Evaluation Document will invalidate it. This product has been designed for use inside and outside the High Velocity Hurricane Zone (HVHZ and NON-HVHZ rated).

Respectfully,



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Frank Bennardo, PE  
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