

ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

August 16, 2023

Application Number: FL 7621.1
EX Project Number: 23-59945

Product Manufacturer: Elite Aluminum Corporation
Manufacturer Address: 4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Product Name & Description: EPS Foam Core Composite Roof Panels
OBS / Aluminum Skin

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 2 (b). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) 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 Performance Evaluation document # 23-59945 titled "EPS Foam Core Composite Roof Panels", prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 2.

- **TEST REPORTS**

The product has been tested per the following:

Uniform static structural performance has been tested in accordance with the above-referenced Florida Building Code per test standard ASTM E72-05 as evidenced in test report(s) #HETI -05-2035, #HETI -05-2028, #HETI -05-2034, #HETI -05-2027, #HETI -05-2032, #HETI -05-2026, #HETI -05-2033, #HETI -05-2025 by Hurricane Engineering & Testing, Inc. (HETI) (signed by Ivonne Ghia, P.E.).

Metal tensile capacity has been determined in accordance with ASTM E8-01 test standard per test report(s) #HETI-05-T337 & #HETI-05-T338 by Hurricane Engineering & Testing, Inc. (HETI) (signed by Ivonne Ghia, P.E.).

Elite Aluminum Corporation – EPS Foam Core Composite Roof Panels

- **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 Size/Pressure Combinations.

Impact Resistance:

Large & Small Missile Impact Resistance has NOT been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

Wind Load Resistance:

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

Installation:

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

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

Limitations & Conditions of Use:

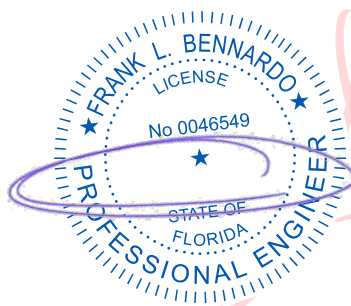
Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

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 Performance Evaluation document will invalidate it. This product has NOT been designed for use within the High Velocity Hurricane Zone (HVHZ), only outside the HVHZ.

Respectfully,

Frank Bennardo, P.E.
ENGINEERING EXPRESS®
#PE0046549 | Cert. Auth. 9885



Digitally signed
by Frank
Bennardo
Date: 2023.08.21
13:01:29 -04'00'