



ENGINEERING EXPRESS[®]

PRODUCT EVALUATION REPORT

June 8th, 2021

Application Number: FL 12109.1 – R4
EX Project Number: 21-39494

Product Manufacturer: Four Seasons Solar Products LLC
Manufacturer Address: 5005 Veterans Memorial Highway
Holbrook, NY 11741

Product Name & Description: Series 230 Wall System for sunroom

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 7-16 (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 #21-39494 titled “Series 230 Wall System for Sunroom”, prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 9.

- **TEST REPORTS**

Uniform static structural performance has been tested in accordance with TAS 202 test standard per test report(s) # TT 507017-202 by Terrapin Testing, Inc., signed by Terence Cavanagh, P.E.

Thermoplastic structural performance for surface burning characteristics have been tested in accordance with UL 1715-97 per test report(s) # 08066b.1 by Western Fire Center, Inc. by The roof assembly was tested as a 7” thick panel with an approved smoke-developed index not greater than 450 and a flame spread index of 75 or less as required per FBC Section 2603.3, 2613.2, and 2613.3.1.

- **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. Component Attachments

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

Four Seasons Solar Products LLC– Series 230 Wall System for sunroom

Impact Resistance:

Impact Resistance has not been demonstrated.

Wind Load Resistance

Each product has been designed to resist wind loads as indicated in the respective Product Evaluation Document (i.e. engineering drawing).

Installation

Each product listed above shall be installed in accordance with the Product Evaluation Document (i.e. engineering drawing). Any alterations to the engineering drawing shall be performed by others on a site-specific basis.

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

Limitations & Conditions of Use:

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

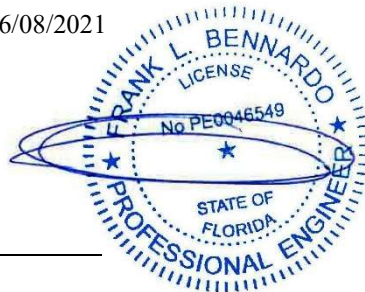
All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific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

Each product HAS been designed for use within and outside of the High Velocity Hurricane Zone (HVHZ) under specific conditions as noted on the engineering drawing.

06/08/2021

Respectfully,



Frank Bennardo, PE

ENGINEERING EXPRESS®

#PE0046549 | Cert. Auth. 9885