



## ENGINEERING EXPRESS® PRODUCT EVALUATION REPORT

July 14, 2020

Application Number: FL12856.3-R7  
EX Project Number: 20-26152

Product Manufacturer: Town & Country Industries  
Manufacturer Address: 400 West McNab Road  
Fort Lauderdale, FL 33309

Product Name & Description: 24GA Steel Storm Panel  
For Use Outside the HVHZ and Wind Zone 4

### ***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 Seventh Edition (2020) 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 #20-26152 titled "24GA Steel Storm Panel", sheets 1-10, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

- **TEST REPORTS**

Uniform static structural performance has been tested in accordance with ASTM E330-02 test standards per test report #E1700.01-450-44 (signed & sealed by Shawn G. Collins, PE) by Architectural Testing.

Large missile impact resistance and cyclic loading performance have been tested in accordance with ASTM E1886-05 & E1996-12 per test report #E1700.01-450-44 (signed & sealed by Shawn G. Collins, PE) by Architectural Testing

- **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
2. Anchor Spacing
3. Maximum Allowable Size/Pressure Combinations
4. Anchor Capacity

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

This product is not intended for use within wind zone 4, the high velocity hurricane zone (HVHZ) or essential facilities and therefore separation from glazing is not required for any installations. An equivalency letter is provided with this evaluation report for equivalency to ASTM E 1996-09.

Town & Country Industries — 24GA Steel Storm Panels

### **Impact Resistance:**

Large Missile Impact Resistance has 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 in the span schedule(s) on the Product Evaluation Document (i.e. engineering drawing).

### **Installation**

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

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

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

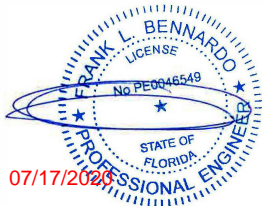
Use of this product shall be in strict accordance with the Product Evaluation Document (i.e. engineering drawing) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in this product's respective anchor schedule. 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 NOT been designed for use within the High Velocity Hurricane Zone (HVHZ), only outside the HVHZ.

Respectfully,



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Frank Bennardo, PE  
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