

Product Evaluation Report

December 15, 2011

Application Number: ~~7344.2-R3~~
FLB Project Number: 05-MEU-0005

7344.1-R3

Product Manufacturer: Metals USA Building Products
Manufacturer Address: 7815 American Way
Groveland, FL 34736Product Name & Description: 26ga Galvanized Steel Storm Panels
(Non-HVHZ)

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 9N-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 2010 Florida Building Code 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**

FLB drawing #05-MEU-0005 titled "26ga Galv Steel Storm Panel", sheets 1-2, 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(s) #CTLA 1538W, 1538W-1, 1538W-2, & 1538W-3 by Certified Testing Laboratories (CTL).

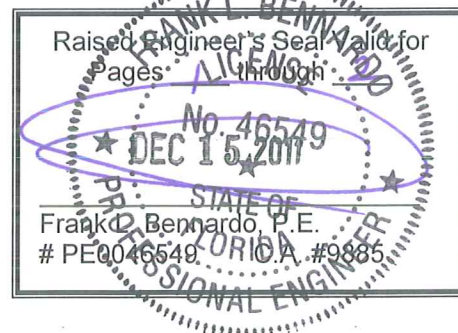
Large missile impact resistance and cyclic loading performance have been tested in accordance with ASTM E1886-02 & E1996-02 test standards per test report(s) #CTLA 1538W-4, 1538W-5, 1538W-6, 1538W-7, 1538W-8, 1538W-9, 1538W-10, & 1538W-11 by Certified Testing Laboratories (CTL).

Metal tensile capacity has been determined in accordance with ASTM E8 test standard per test report #1541W by Certified Testing Laboratories (CTL).

- **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. Minimum Allowable Spans
3. Anchor Spacing



Metals USA Bldg Products — 26ga Galv Steel Storm Panels (Non-HVHZ)

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

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

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

Installation

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

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 NOT been designed for use within the High Velocity Hurricane Zone (HVHZ).