

# *Gulf Coast Supply & Mfg. Inc.*

## **Product Evaluation Report for**

**26 Ga. PBR Roof Panel over ½" Plywood**

**Florida Product Approval # 11651.11**

**Category: Roofing**

**Subcategory: Metal Roofing**

**Compliance Method: 9B-72.070(1)(d)**

**HVHZ**

Engineer Evaluator:

Terrence E. Wolfe, P.E. # 44923  
19530 Ramblewood Drive  
Humble, TX 77338

Validator:

Locke Bowden, P.E., FL #49704  
9450 Alysbury Place  
Montgomery, AL 36117



**Product Manufacturer:**  
Gulf Coast Supply & Mfg, Inc.  
4020 S.W. 449th Street  
Horseshoe Beach, FL 32648  
352-498-7852

**Product Description:**  
PBR Roof Panel, 26 Ga. (0.019"), 36" Coverage, 1-1/4" Tall Rib, Through Fastened, Nonstructural metal roof panel over min. 15/32" Plywood.

Panel Rollformer: MRS Metal Rollforming Systems  
13906 N. Newport HWY  
Mead, Washington 99021

**Compliance Statement:**  
The product as described in this report has demonstrated compliance with the Florida Building Code 2007, Sections 1504.3.2, 1518.9, 1523.6.5.2.4.

**Documentation Supporting the Compliance Statement:**

The product has been tested in accordance with:

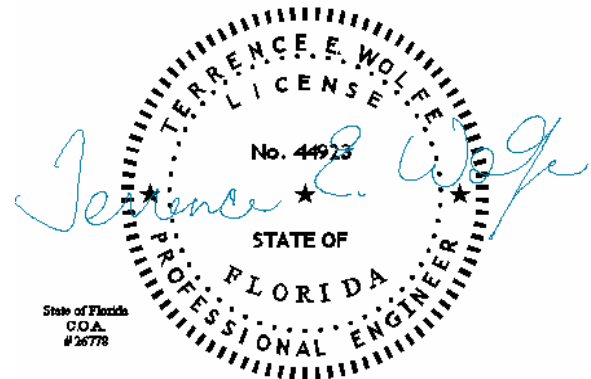
- TAS 125-03 UL 580-94 / 1897-98: Test report #117-0062T-07G-I dated 2-19-07 by Force Engineering & Testing per
  - A) Test #1, Tested 9-25-06 Main Field over 15/32" Plywood
  - B) Test #2, Tested 9-26-06 Main Field over 15/32" Plywood
  - C) Test #1, Tested 9-27-06 Edge over 15/32" Plywood
- TAS 100-95: Test report T132-07 dated 2-28-07 by Farabaugh Engineering & Testing
  - A) Wind Driven Rain Test Results: Passed
  - B) The main field of roof fastener spacing was used for this test.
- TAS 100-95: Test report T271-08 dated 10-13-08 by Farabaugh Engineering & Testing
  - A) Wind Driven Rain Test Results: Passed
  - B) The Perimeter roof fastener spacing was used for this test.
- Valspar Fluropon® coated metal panel testing
  - A) ASTM G 26 by PRI Asphalt Technologies dated January 19, 2004 Results: Passed
  - B) ASTM B 117 by PRI Asphalt Technologies dated January 19, 2004 Results: Passed

**Limitations and Conditions of use for HVHZ:**

**Maximum Roof Component Uplift Pressures:** -60.5 psf at 12"-12"-12" Fastener Pattern at 24" O.C. Fastener Spacing  
-154.75 psf at 7"-5"-7"-5"-7" Fastener Pattern at 12" O.C. Fastener Spacing

**Panel Material Standards:**

26 Ga., 0.019" Min, Grade 80, ASTM A792 coated with Valspar Fluropon® or ASTM A653 G90 Bare. Panel Material shall comply with FBC 2007, Section 1507.4.3



**Panel Fasteners:** #9-15 x 1-1/2" Woodgrip with w/ sealing washer. Panel Side laps shall be fastened together w/ 1/4-14 x 7/8" Lap Tek w/ sealer washer @ 24" O.C. Fasteners must be Corrosion resistance per FBC 2007, Section 1507.4.4.

**Minimum Roof Slope:** 2:12. Minimum Slope shall comply with FBC 2007, Section 1507.4.2 and Manufacturers recommendations.

**Substrate Description:** Minimum 15/32" plywood designed in accordance w/ FBC 2007

**Vapor Barrier:** 30 # Asphalt Saturated organic felt paper in compliance with ASTM D226, Type I or Type II.

**Fire Barrier:** 1/4" Georgia Pacific "Dens Deck" or manufacturer approved equal.

**Shear Diaphragm:** Shear diaphragm values are outside the scope of this report.

**Design Procedure:**

Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the FBC 2007 for roof cladding wind loads. These component wind loads for roof cladding are compared to the allowable pressures listed above. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure and analyze the panel fasteners for pullout and pullover. Support framing must be in compliance with FBC Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.

**Installation Requirements:**

Install the panel system according to the manufacturer's installation instruction and RAS 133

**Quality Assurance Entity:**

Keystone Certifications, Inc: FBC #QUA1824

**Certificate of Independence:**

See uploaded attachments

**Authorized Representative:**

Terrence E. Wolfe, P.E. #44923

