

Gulf Coast Supply & Mfg. Inc.

Product Evaluation Report for

26 Ga. PBR Roof Panel over 1x4 Wood Purlins

Florida Product Approval # **11651.12**

Category: Roofing

Subcategory: Metal Roofing

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

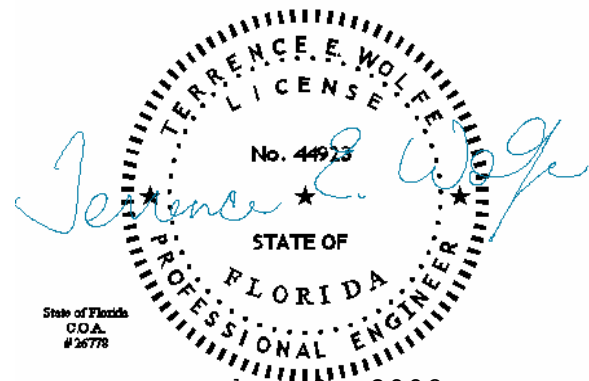
HVHZ

Engineer Evaluator:

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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 1x4 wood purlins 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:

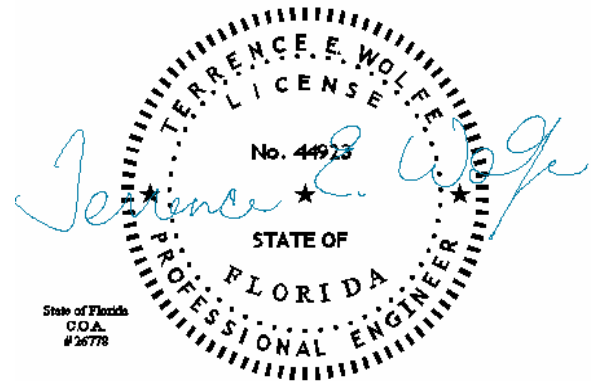
- TAS 125-03 UL 580-94 / 1897-98: Test report #117-0062T-07J-L dated 2-19-07 by Force Engineering & Testing per
 - A) Test #1, Tested 10-4-06 Main Field over 1x4 Wood Purlins over 15/32” Plywood
 - B) Test #2, Tested 10-6-06 Main Field over 1x4 Wood Purlins over 15/32” Plywood
 - C) Test #1, Tested 10-2-06 Edge over 1x4 Wood Purlins over 15/32” Plywood
- TAS 100-95: Test report T129-07 dated 2-27-07 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 T273-08 dated 10-22-08 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: -100.5 psf at 12”-12”-12” Fastener Pattern at 24” O.C. Fastener Spacing
-151.75 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: 1x4 Wood Purlins over 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 including the 1x4 wood purlins and plywood decking 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

