

# *Gulf Coast Supply & Mfg. Inc.*

## Product Evaluation Report for

**29 Ga. Tuff Rib 36" Wide over 1x4 Wood Purlins**

Florida Product Approval # **11651.16**

Category: Roofing

Subcategory: Metal Roofing

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

**NON-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:**  
Tuff Rib Roof Panel, 29 Ga. 0.0145", 36" Coverage, 3/4" Tall Rib, non-structural metal roof panel over 1x4 wood purlins attached to 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.

**Documentation Supporting the Compliance Statement:**  
The product has been tested in accordance with:

- UL 580-94 / 1897-98 by Force Engineering & Testing
- Test Report #117-0033T-05 dated 5-5-05 Test #1 Main
- Test Report #117-0331T-08B dated 11-4-08 Test #2 Edge

**Limitations and Conditions of use for NON-HVHZ:**  
**Maximum Roof Component Uplift Pressures:** -76.75 psf @ 9"-9"-9"-9" Fastener Pattern at 24" O.C.  
-123.5 psf @ 6.5"-2.5"-6.5"-2.5"-6.5" Fastener Pattern at 24" O.C.

**Panel Material Standards:** 29 Ga., 0.0145" Thick material Grade 80. Panel Material shall comply with FBC 2007, Section 1507.4.3

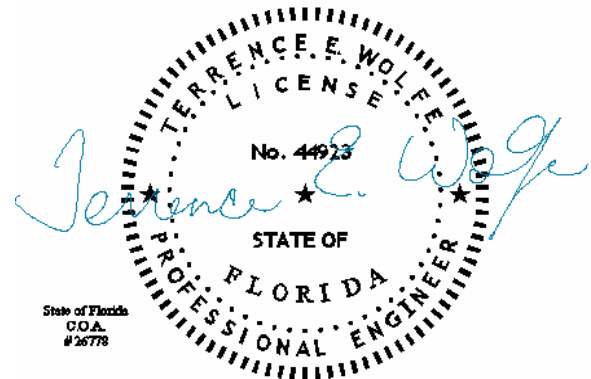
**Panel Fasteners:** #9-15 x 1-1/2" HWH Woodgrip w/ Sealer Washer. Fasteners must be Corrosion resistance per FBC 2007, Section 1507.4.4

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

**Substrate Description:** 1x4 Wood Purlins attached to Min. 15/32" Plywood Deck designed by others

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

**Roof Panel Fire Rating:** Panel has a Class B fire exposure rating in accordance with FBC Section 1505.3 without added an additional fire barrier.



**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 pressure 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 decking & framing must be in compliance with FBC 2007 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.

**Quality Assurance Entity:**

Keystone Certifications, Inc: FBC #QUA1824

**Certificate of Independence:**

See uploaded attachments

**Authorized Representative:**

Terrence E. Wolfe, P.E. #44923

