

Advanced Aluminum

Product Evaluation Report for

26 Ga. Permatile Roof Panel over 1/2" Plywood

Florida Product Approval # 1763.2

Category: Roofing

Subcategory: Metal Roofing

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

HVHZ

Engineer Evaluator:

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Validator:

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Product Manufacturer:

Advanced Aluminum
2934 Parkway Street
Lakeland, FL 33811

Product Description:

Permatile Roof Panel, 26 Ga., 28" Coverage, 1-1/4" tall major rib at 7" O.C., Through Fastened, Nonstructural metal roof panel over min. 15/32" Plywood.

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 #343-0134T-09A-C dated 6-2-09 by Force Engineering & Testing per
 - A) Test #1, Tested 5-27-09 Main Field over 15/32" Plywood
 - B) Test #2, Tested 5-28-09 Main Field over 15/32" Plywood
 - C) Test #1, Tested 5-29-09 Edge over 15/32" Plywood
- TAS 100-95: Test report T203-09 dated 6-25-09 by Farabaugh Engineering & Testing
 - A) Wind Driven Rain Test Results: Passed
 - B) The edge field of roof fastener spacing was used for this test.
- Trinar® paint coating by Akzo Nobel Coatings
 - A) ASTM G 26 by PRI Asphalt Technologies dated October 8, 2002 Results: Passed
 - B) ASTM B 117 by PRI Asphalt Technologies dated October 8, 2002 Results: Passed

Limitations and Conditions of use for HVHZ:

Maximum Roof Component Uplift Pressures: -74.8 psf at 14"-14" Fastener Pattern at 14" O.C.
Fastener Spacing
-161.0 psf at 7"-7"-7"-7" Fastener Pattern at 14" O.C.
Fastener Spacing

Panel Material Standards:

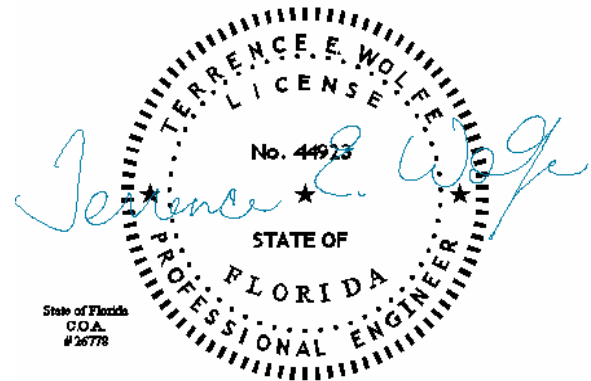
26 Ga., 0.021" Min. thickness and Fy = 48.2 ksi, Commercial Steel Type B, ASTM A792 coated with Trinar® or ASTM A653 G90 Bare. Panel Material shall comply with FBC 2007, Section 1507.4.3

Panel Fasteners:

#10-15 x 2-1/2" HILO Woodgrip with ZAC Head and sealing washer (or approved equal). Fasteners must be Corrosion resistance per FBC 2007, Section 1507.4.4.

Minimum Roof Slope:

2:12. For slopes less than 3:12, lap sealant must be used in panel side laps. 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

Underlayment: Double layer of ASTM D226 Type I, single layer of ASTM D226 Type II, or single layer of ASTM D2626. Must be in compliance and installed per FBC Section 1517.5, 1518.4.

Fire Barrier: ¼" 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:

Architectural Testing, Inc: FBC #QUA1844

Certificate of Independence:

See uploaded attachments

Authorized Representative:

Terrence E. Wolfe, P.E. #44923

