



Product Evaluation Report

Amicorp, Inc. 24GA Nailstrip, 16" Wide Roof Panel over 15/32" Sheathing

Florida Product Approval #16076.1 R3
Per Florida Building Code (FBC) 2023 8th Edition
Section 1504.3.2

Category: Roofing
Subcategory: Metal Roofing
Compliance Method: 9N-3.005(1)(d)
NON-HVHZ

Product Manufacturer/Applicant:

Amicorp, Inc.
400 Nut Tree Drive
DeLand, FL 32724

Engineer Evaluator:

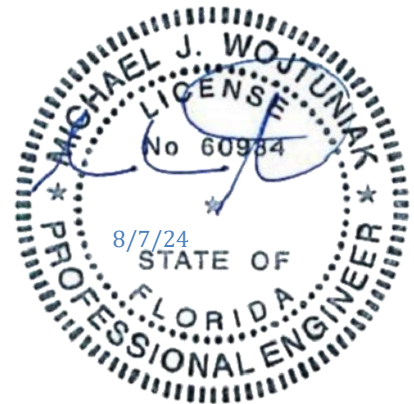
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6DAA57A00018982, cn=Michael
J Wojtuniak
Date: 2024.08.07 12:07:29 -04'00'



Statement of Compliance:

The product as described in this report has demonstrated compliance with the FBC 2023 8th Edition, Section 1504.3.2.

Description of Product:

24GA Nailstrip; 1" nailstrip roof panel, 24-gauge steel, 16" coverage, panel restrained with fasteners into 15/32" plywood or oriented strand board (OSB) decking. Other optional panel restraints shall include fastening to 1X4 purlins spaced 24" O.C. NON-STRUCTURAL APPLICATION.

Panel Material/Standards:

Material: Minimum 24 Ga. Steel, A653 G90 conforming to FBC 2023 8th Edition Section 1507.4.3. Paint optional.

Yield Strength: 40.0 ksi

Corrosion Resistance: Panel material shall comply with FBC 2023 8th Edition, Section 1507.4.3

Panel Dimension(s):

Thickness: 0.024" minimum

Width: 16" coverage maximum

Female Rib: 0.97" tall

Male Rib: 3/4" tall rib w/slotted strip

Panel Seam: snap-lock type

Panel Rollformer: Knudson Manufacturing, Inc. - VP-21M "VARIPAN 2000"

Panel Fastener:

Fastener: #10-13 GP Type A Pancake Head STS

Screw pattern: 12" O.C. in the field.

Corrosion Resistance: Per FBC 2023 8th Edition, Section 1506.6, 1507.4.3

Substrate Description:

Min. 15/32" thick, 4-ply CDX plywood or Oriented Strand Board (OSB). Sheathing supports at maximum 24" O.C. Design of sheathing and sheathing supports are outside the scope of this evaluation. Must be designed in accordance w/FBC 2023 8th Edition.

Design Uplift Pressures:

Panel Slot Fastener Spacing	<i>Maximum Total Uplift Design Pressure (FS=2)</i>
12" O.C.	-88.5 psf

Code Compliance:

The product described herein has demonstrated compliance with the FBC 2023 8th Edition, Section 1504.3.2.

Evaluation Report Scope:

The product evaluation is limited to compliance with the structural wind load requirements of the FBC 2023 8th Edition, as relates to Rule 9N-3.

Performance Standards:

The product described herein has demonstrated compliance with:

- UL 580-2006 – Test for Uplift Resistance of Roof Assemblies
- UL 1897-2015 – Standard for Safety, Uplift Test for Roof Covering Systems

Test Standard Equivalency:

1. The UL 580-98 test standard is equivalent to the UL 580-2006 test standard.
2. The UL 1897-98 test standard is equivalent to the UL 1897-2015 test standard.

Reference Data:

1. UL 580 & 1897 Uplift Tests
Force Engineering & Testing, Inc. (ISO/IEC 17025:2017 by PJLA Accreditation #104507 for Testing)
File No. 800-0073T-24A, B; dated 07/19/2024
2. Certificate of Independence
By Michael Wojtuniak, P.E. (No. 60934) @ Engineered Permits, Inc.

Quality Assurance Entity:

The manufacturer has established compliance of roof panel products in accordance with the FBC Rule 9N-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity. The entity chosen by the manufacturer is Keystone Certifications, Inc.

Minimum Slope Range:

Minimum slope shall comply with FBC 2023 8th Edition, including Section 1507.4.2 and in accordance with manufacturer's recommendations.

Installation:

Install per manufacturer's recommended details.

Underlayment:

The underlayment shall comply with FBC 2023 8th Edition Section 1507.1.1 and shall be installed per FBC 2023 8th Edition Section 1507.1.1.1.

Limitations of Use

Not approved for use in HVHZ. Not impact resistant. See load table for design pressure(s) based on fastener spacing.

Roof Panel Fire Classification:

Fire classification is not part of this acceptance.

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 Florida Building Code 2023 8th Edition 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 framing must be in compliance with FBC 2023 8th Edition Chapter 22 for steel, Chapter 23 for wood, and Chapter 16 for structural loading.