

Website: www.forceengineeringtesting.com

Product Evaluation Report SUNSHINE METAL SUPPLY, INC.

26 Ga. Sun-Rib Roof Panel over 2x4 Wood Purlins

Florida Product Approval # 25616.2 R3

Florida Building Code 2023 Per Rule 61G20-3 Method: 1-D

Category: Structural Components Subcategory: Roof Deck Compliance Method: 61G20-3.005(1)(d) **NON HVHZ**

Product Manufacturer:

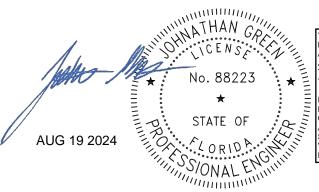
Sunshine Metal Supply, Inc. 719 Cattlemen Road Sarasota, FL 34232 Telephone: (941) 600-2521

Engineer Evaluator:

Johnathan Green, P.E. #88223 Florida Evaluation ANE ID: 12901

Contents:

Evaluation Report: Page 1 - 3 Installation Detail: Page 4



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHNATHAN GREEN ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966 Website: www.forceengineeringtesting.com

Compliance Statement: The product as described in this report has demonstrated compliance with the

Florida Building Code 2023, Sections 1504.3.2, 1504.7.

Product Description: Sun-Rib Panel 26 Ga. Steel, 36" coverage, through fastened roof panel fastened

into 2x4 wood purlins. Structural Application.

Panel Material/Standards: Material: 26 Ga. Steel conforming to Florida Building Code 2023 Section

1507.4.3.

Yield Strength: Min. 50.0 ksi

Corrosion Resistance: Panel Material shall comply with Florida Building Code

2023, Section 1507.4.3.

Panel Dimension(s): Thickness: 0.018" (Nominal)

Width: 36" maximum coverage Rib Height: ¾" major rib at 9" O.C.

Panel Fastener: #10 x 1 ½" WoodZAC HILO MTW with washer or approved equal.

Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.

Substrate Description: Min. 2x4 #2 SYP wood purlins laid flat over open wood framing at 24" O.C. max.

(3) 10d x 3" Galvanized Ring Shank nails into wood framing at 24" O.C. Max. Design of 2x4 and wood framing supports are outside the scope of this

evaluation. Substrate must be designed in accordance w/ Florida Building Code.

Allowable Design Uplift Pressures:

Table "A"

Maximum Allowable Design Uplift Pressure:	78.5 psf	119.8 psf	161.0 psf
Fastener Pattern:	9"-9"-9"-9"	9"-9"-9"-9"	9"-9"-9"-9"
2x4 Wood Purlin/Fastener Pattern Spacing:	24" O.C.	18" O.C.	12" O.C.

^{*}Design Pressure includes a Safety Factor = 2.0.



Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966 Website: www.forceengineeringtesting.com

Code Compliance: The product described herein has demonstrated compliance with

The Florida Building Code 2023, Section 1504.3.2, 1504.7.

Evaluation Report Scope: The product evaluation is limited to compliance with the structural wind load

requirements of the Florida Building Code 2023, as relates to Rule 61G20-3.

Performance Standards: The product described herein has demonstrated compliance with:

Reference Data:

UL 580-06 - Test for Uplift Resistance of Roof Assemblies

■ UL 1897-2015 - Uplift Test for Roof Covering Systems

■ FM 4471-92 - Foot Traffic Resistance Test

1. UL 580-06 / 1897-2015 Uplift Test

Force Engineering & Testing (FBC Organization # TST-5328)

Report No. 596-0076T-24.

 FM 4471-10, Section 4.4 Foot Traffic Resistance Test Force Engineering & Testing (FBC Organization # TST-5328)

Report No. 596-0076T-24.

3. Certificate of Independence

By Johnathan Green, P.E. #88223

Test Standard Equivalency: FM 4471-10 test standard is equivalent to the FM 4471-92 test standard.

Quality Assurance Entity: The manufacturer has established compliance of roof panel products in

accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved

quality assurance entity.

Minimum Slope Range: Minimum Slope shall comply with Florida Building Code 2023, including Section

1507.4.2 and in accordance with Manufacturers recommendations. For slopes

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

Installation: Install per manufacturer's recommended details.

Roof Panel Fire Classification: Fire classification is not part of this evaluation.

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

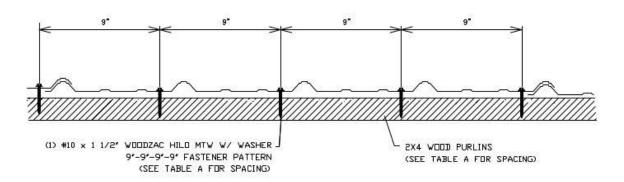
Design Procedure: Based on the dimensions of the structure, appropriate wind loads are

determined using Chapter 16 of the Florida Building Code 2023 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 Florida Building Code 2023 Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.



19530 Ramblewood Drive Humble, Texas 77338 Phone: (281) 540-6603 FAX: (281) 540-9966 Website: www.forceengineeringtesting.com

FASTENER PATTERN AT PANEL INTERIOR



FASTENER PATTERN AT PANEL ENDS

