Force Engineering & Testing
19530 Ramblewood Drive
Humble, Texas 77338
Phone: (281) 540-6603 FAX: (281) 540-9966
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Product Evaluation Report

SUNSHINE METAL SUPPLY, INC.

26 Ga. 1" SunlocEZ Roof Panel over 15/32" Plywood

Florida Product Approval # 46022.1 R1

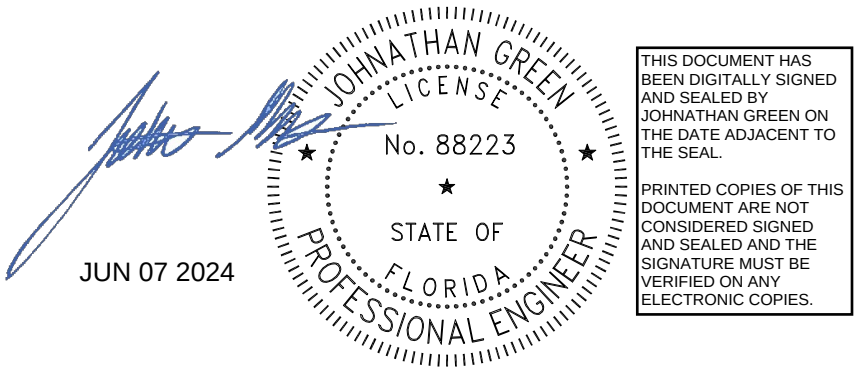
Florida Building Code 2023
Per Rule 61G20-3
Method: 1 –D

Category: Roofing
Subcategory: Metal Roofing
Compliance Method: 61G20-3.005(1)(d)
NON HVHZ

Product Manufacturer:
Sunshine Metal Supply, Inc.
719 Cattleman Road
Sarasota, Florida 34232

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

Contents:



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Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2023, Sections 1504.3.2.

Product Description: 1" SunlocEZ Roof Panel, 26 Ga. Steel, 16" Coverage, 1" Snap lock Roof Panel fastened to minimum 15/32" APA Plywood decking. Non-Structural Application.

Panel Material/Standards: Material: 26 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2023 Section 1507.4.3. Paint finish optional.
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:	26 Ga.: 0.0185" min.
Width:	16" Maximum Coverage
Rib Height:	1"
Panel Seam:	Snap lock with fastener flange on male rib with 3/16"x1" slots at 5 3/16" O.C.
Panel Profile:	New Tech FF100 Panel Profile

Roof Clip Fastener: (1) #12-8 x 1" Panclip XLP MTW or approved equal
Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.

Substrate Description: Min. 15/32" thick, APA Rated plywood with minimum 45 mil self-adhered underlayment over supports at maximum 24" O.C. Solid ¾" thick wood planking may be substituted for plywood if the wood planking has a fastener pull out value equal to or greater than 15/32" thick APA rated plywood. Design of plywood, decking and supports are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code.

Allowable Design Uplift Pressures:

Maximum Allowable Design Uplift Pressure:	-78.5 psf	-71.0 psf
Fastener Spacing:	5 3/16" O.C.	10 3/8" O.C.

*Design Pressure includes a Safety Factor = 2.0.

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Code Compliance: The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1504.3.2.

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:

- UL 580-06 - Test for Uplift Resistance of Roof Assemblies
- UL 1897-2015 - Uplift Test for Roof Covering Systems

Reference Data:

1. UL 580-06 / 1897-15 Uplift Test
   Force Engineering & Testing (FBC Organization # TST-5328)
   Report No. 596-0038T-24A, B
2. Certificate of Independence
   By Johnathan Green, P.E. #88223

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.

Installation: Install per manufacturer's recommended details.

Underlayment: **Minimum 45 mil self-adhered underlayment** Per Florida Building Code 2023, Section 1507.1 and manufacturer's installation guidelines.

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.

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1" SUNLOCEZ 26 GA. PANEL