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

Product Evaluation Report

SUNSHINE METAL SUPPLY, INC.

26 Ga. SUNPBR Wall Panel over open framing

Florida Product Approval # 25617.1 R2

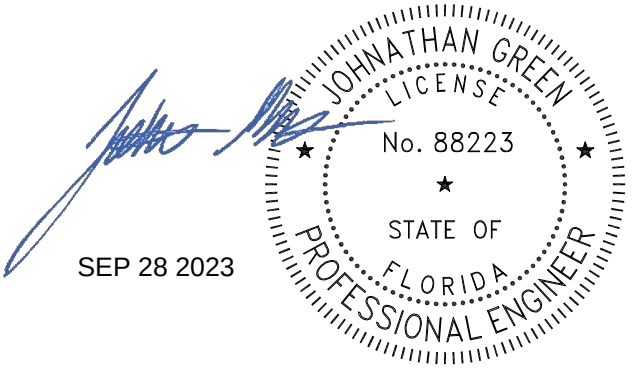
Florida Building Code 2023
Per Rule 61G20-3
Method: 2 –B

Category: Structural Components
Subcategory: Structural Wall
Compliance Method: 61G20-3.005(2)(b)
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:



SEP 28 2023

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

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Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2023, Sections 1709.2

Product Description: SUNPBR Wall Panel, 26 Ga. Steel, 36" Wide, through fastened structural wall panel. Structural Application.

Panel Material/Standards: Material: 26 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2023 Section 1405.2.
Yield Strength: Min. 80.0 ksi

Panel Dimension(s):

Thickness:	0.0167" min.
Width:	36" maximum coverage
Rib Height:	1 ¼" major rib at 12" O.C.
Panel Rollformer:	CSC Machine – Sunnyside, Washington

Panel Fastener: #12-14 x 1-1/4" Steelbinder ZXL HWH SD with sealing washing or approved equal; at 12", 12", 12" pattern across the panel width in the interior panel areas and at 7", 5", 7", 5", 7", 5" pattern across the panel width at the panel ends.
1/4-14 x 7/8" Steelbinder Maxx HWH Stitch with sealing washer through panel side laps at 24" O.C.
Corrosion Resistance: Per Florida Building Code 2023.

Substrate Description: Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2023.

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Allowable Design Pressures:

Sunshine Metal Supply, Inc.
Min. 26 ga. SUNPBR Wall Panel
Design Inward and Outward Loads

Span (in)	Inward Load (psf)	Outward Load (psf)
24	120.0	128.0
27	106.7	113.8
30	96.0	102.4
33	87.3	93.1
36	80.0	85.3
39	73.8	78.8
40	72.0	76.8
42	68.6	73.1
45	64.0	68.3
48	60.0	64.0
51	56.5	60.2
54	53.3	56.9
57	50.5	53.9
60	48.0	47.5

Notes:
1. Allowable load is the lowest value of panel strength, connection strength & deflection limit of L/180.
2. Allowable load is applicable to three or more spans conditions.
3. Panels must be installed as per Evaluation Report FL 25617.1 and Sunshine Metal Supply current installation procedure.
4. The structural capacity of support beam are not considered and must be examined independently.
5. Minimum support thickness is 16 ga.

Code Compliance:

The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1709.2

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:

- ASTM E 1592-05(2017) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference.

Reference Data:

1. ASTM E 1592-05 (2012)
   ENCON® Technology, Inc.
   Project #C2194-1; Reporting Date: 12/14/17
2. Certificate of Independence
   By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing
   (FBC Organization # ANE ID: 12901)

Test Standard Equivalency:

1. The ASTM E1592-05(2012) test standard is equivalent to the ASTM E-05(2017) 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.

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Installation: Install per manufacturer's recommended details.

Insulation: Manufacturer's approved product (Optional)

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 wall cladding wind loads. These component wind loads for wall 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, and Chapter 16 for structural loading.

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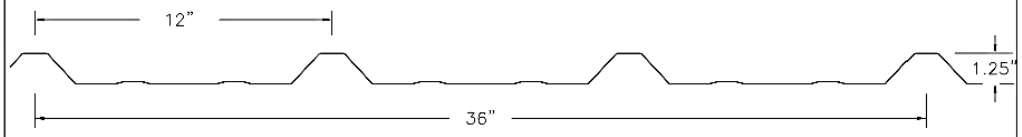
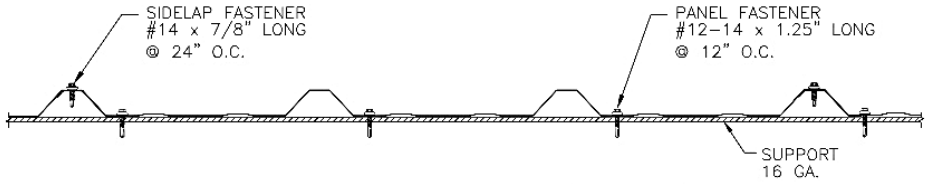
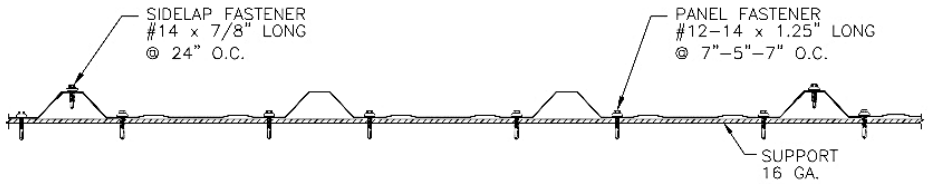
ENCON TECHNOLOGY, INC.	SUNSHINE METAL SUNPBR PANEL TEST PANELS	ASTM E1592-05(2012)	3/28



SUNPBR PANEL PROFILE
26 Gauge, Minimum Yield = 80 KSI



FASTENER PATTERN @ INTERIOR SUPPORTS



FASTENER PATTERN @ END SUPPORTS

C2194-1

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DEC 14, 2017