Force Engineering & Testing
19530 Ramblewood Drive
Humble, Texas 77338
Office: (281) 540-6603 Test Lab: (832) 720-4251
www.forceengineeringtesting.com

Product Evaluation Report

VULCAN STEEL STRUCTURES, INC.

SL 216 24 Ga. Standing Seam Roof System Over Open Framing

Florida Product Approval # FL 5346.3 R8

Florida Building Code 2026
Per Rule 61G20-3
Method: 1 –D

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

Product Manufacturer:
Vulcan Steel Structures, Inc.
500 Vulcan Parkway
Adel, Georgia 31620

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

Contents:

Evaluation Report: Page 1 - 4
Installation Detail: Page 5

September 14, 2026

JOHNATHAN GREEN
LICENSE
No. 88223
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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.

Force Engineering & Testing
19530 Ramblewood Drive
Humble, Texas 77338
Office: (281) 540-6603 Test Lab: (832) 720-4251
www.forceengineeringtesting.com

Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2026, Sections 1504.3.2, 1504.7.

Product Description: SL 216 roof panel, minimum 24 Ga. steel, 16" coverage, standing seam structural roof panel. Structural application.

Panel Material/Standards: Material: 24 Ga. steel. ASTM A792 AZ50 minimum for painted or AZ55 for bare or acrylic coated, grade 50 steel conforming to Florida Building Code 2026. Section 1507.4.3. Paint finish optional.
Yield Strength: Min. 50.0 ksi
Corrosion Resistance: Panel material shall comply with Florida Building Code 2026, Section 1507.4.3.

Panel Dimension(s):

Thickness:	0.024"
Width:	16" Maximum Coverage
Rib:	2" tall standing seam rib
Panel Seam:	Double lock seam with mechanical seamer.

Roof Panel Clips: Product Name: HW-230 or HW-232.
Corrosion Resistance: Per Florida Building Code 2026 Section 1506.7 and Section 1711 for installations within 3000 ft. of a saltwater coastline.

Panel Fastener: (2) ¼-14 x 1" HWH DP3 per clip or approved equal.
Corrosion Resistance: Per Florida Building Code 2026 Section 1506.6, 1507.4.4 and Section 1711 for installations within 3000 ft. of a saltwater coastline.

Substrate Description: Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2026.

Allowable Uplift Design Pressures:

Table "A"

Maximum Allowable Uplift Design Pressure:	-46.9 psf	-135.3 psf
Mechanical Panel Seaming:	Double Lock	Double Lock
Clip Spacing:	5'-0" O.C.	1'-0" O.C.

*Design Pressure includes a Safety Factor = 2.0.
Interpolation between design pressures is permitted.

Force Engineering & Testing
19530 Ramblewood Drive
Humble, Texas 77338
Office: (281) 540-6603 Test Lab: (832) 720-4251
www.forceengineeringtesting.com

Code Compliance: The product described herein has demonstrated compliance with The Florida Building Code 2026, 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 2026, 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.
- FM 4471-92 Foot Traffic Resistance Test.

Reference Data:

1. ASTM E 1592-05(2012)
   Force Engineering & Testing (FBC Organization # TST-5328)
   Report No. 155-0160T-20
2. FM 4471-10, Section 4.4 Foot Traffic Resistance Test
   Force Engineering & Testing, (FBC Organization # TST-5328)
   Report No. 155-0160T-20
3. Certificate of Independence
   By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing
   (FBC Organization # ANE ID: 12901)

Test Standard Equivalency: The ASTM E 1592-05(2012) test standard is equivalent to ASTM E 1592-05(2017)

The FM 4471-10, Foot Traffic Resistance test standard is equivalent to FM 4471-92.

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 2026, 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.

Limitation: Metal hip and ridge covers are outside the scope of this evaluation report and must be in compliance with FBC 2026 Section 1504.3.1.1 through other product approval.

Force Engineering & Testing
19530 Ramblewood Drive
Humble, Texas 77338
Office: (281) 540-6603 Test Lab: (832) 720-4251
www.forceengineeringtesting.com

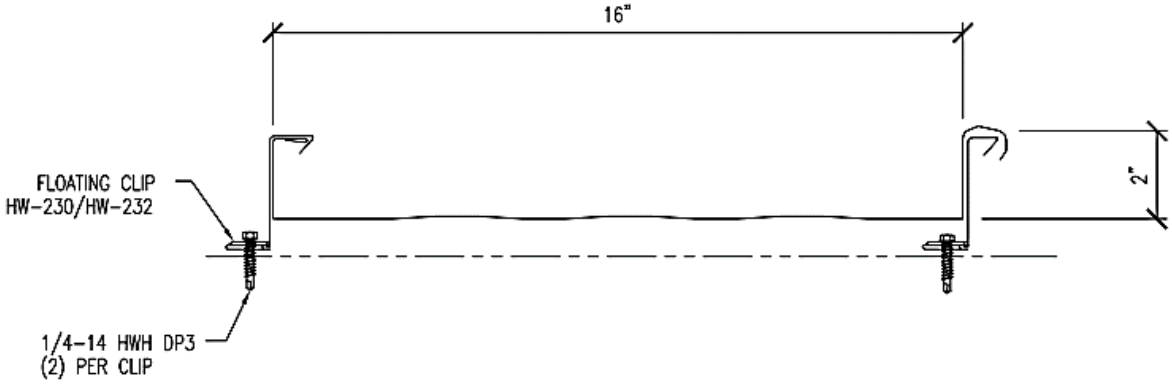
Insulation: Manufacturer's approved product (Optional).

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

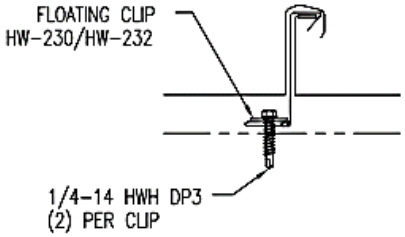
Shear Diaphragm: Shear diaphragm values are outside the scope of this report.

Design Procedure: Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2026 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 2026 Chapter 22 for steel, and Chapter 16 for structural loading.

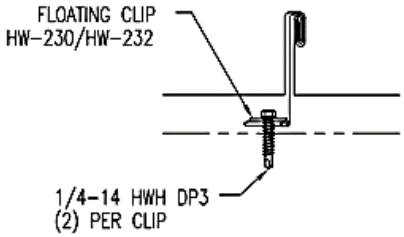
Force Engineering & Testing
19530 Ramblewood Drive
Humble, Texas 77338
Office: (281) 540-6603 Test Lab: (832) 720-4251
www.forceengineeringtesting.com



SL 216 ROOF PANEL



PANEL RIB
BEFORE SEAMING



PANEL RIB
AFTER SEAMING