



Product Evaluation Report
VULCAN STEEL STRUCTURES, INC.

DL324 – 24" 24 Ga. Standing Seam Roof System Over Open Framing

Florida Product Approval # FL 5346.1 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:

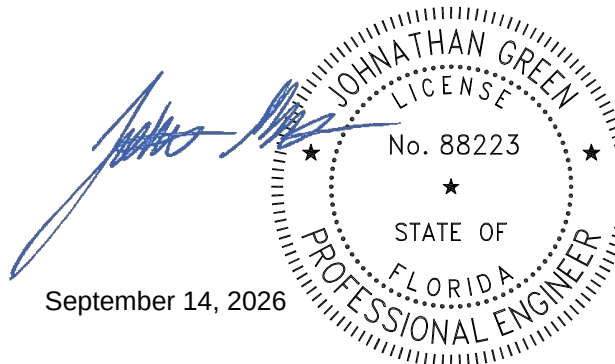
Johnathan Green, P.E. #88223

Florida Evaluation ANE ID: 12901

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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 2026, Sections 1504.3.2, 1504.7.
- Product Description:** DL324 roof panel, minimum 24 Ga. steel, 24" 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: 24" Maximum Coverage
 Rib: 3" tall Trapezoidal Rib
 Panel Seam: Double lock seam with mechanical seamer.
- Roof Panel Clips:** Product Name: HW-2124 or HW-2122.
 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" DP3 HWH SD 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 Design Uplift Pressures:**

Table "A"

Maximum Allowable Uplift Design Pressure:	-33.8 psf	-101.45 psf
Mechanical Panel Seaming:	Double Lock	Double Lock
Clip Spacing:	5'-0" O.C.	1'-0" O.C.

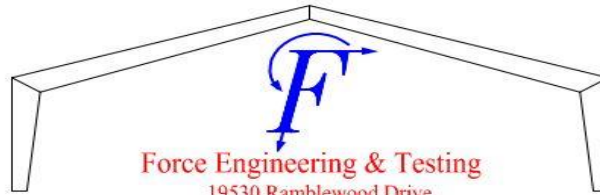
*Design Pressure includes a Safety Factor = 2.0.
 Interpolation between design pressures is permitted.



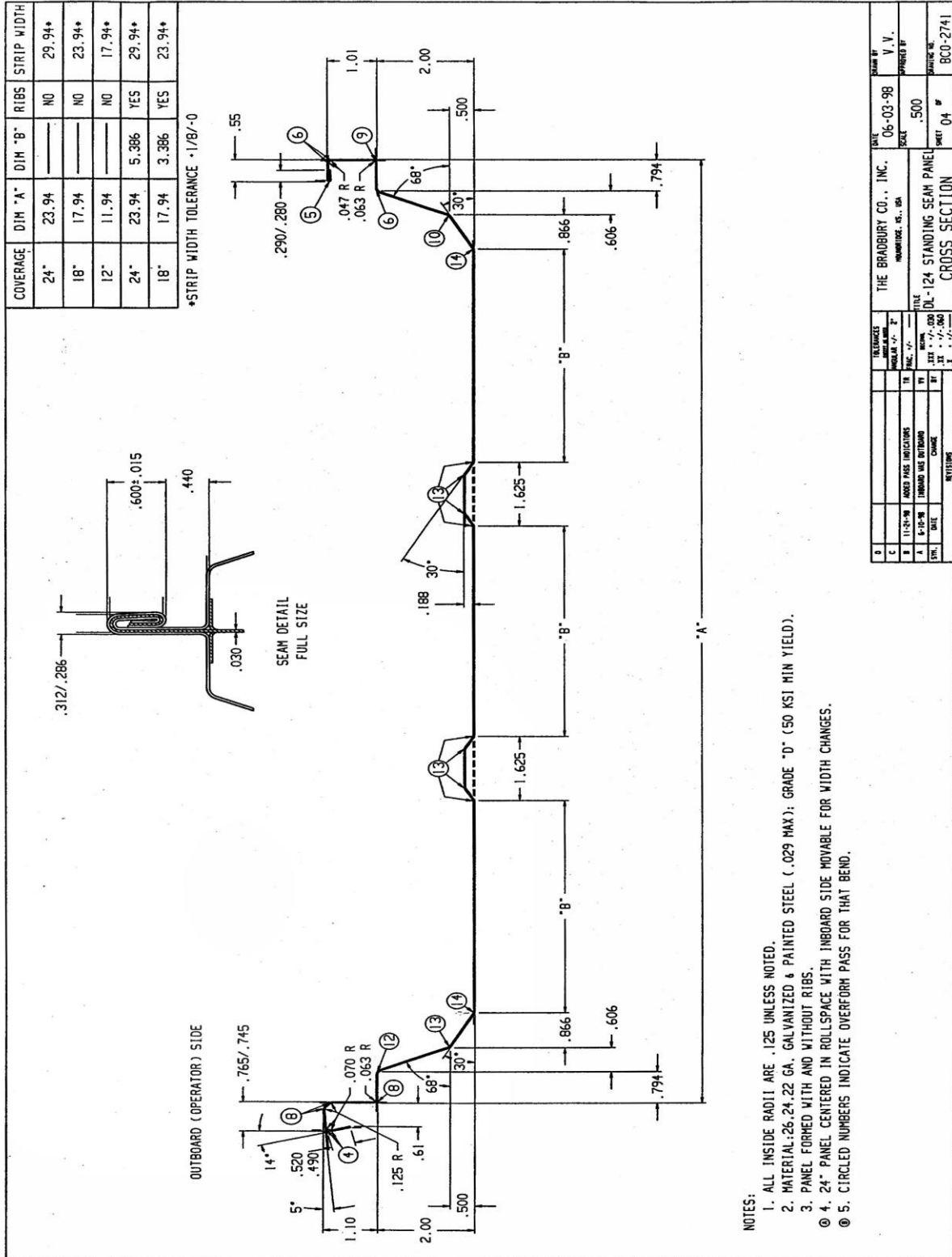
Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2026, Section 1504.3.2, 1504.7.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2026, as relates to 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. 155-0091T-20A, B 2. FM 4471-10, Section 4.4 Foot Traffic Resistance Test Force Engineering & Testing, (FBC Organization # TST-5328) Report No. 155-0091T-20C 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.



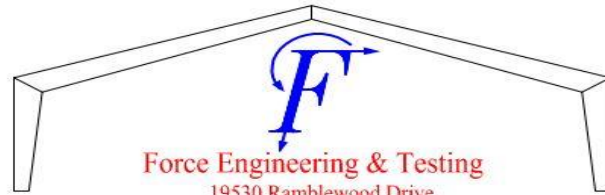
Insulation:	Manufacturer's approved product (Optional).
Roof Panel Fire Classification:	Fire classification is not part of this acceptance.
Shear Diaphragm:	Shear diaphragm values are outside the scope of this report.
Design Procedure:	Based on the dimensions of the structure, appropriate wind loads 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.



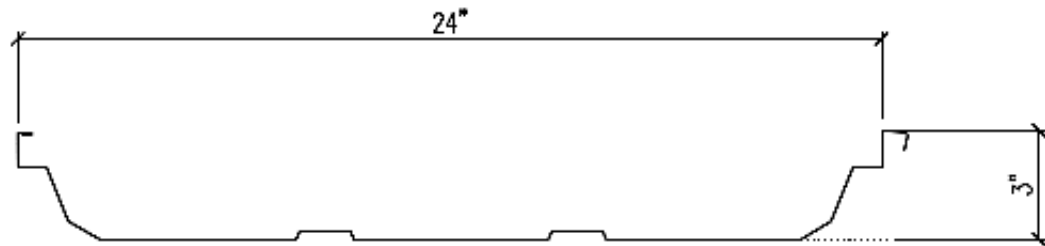
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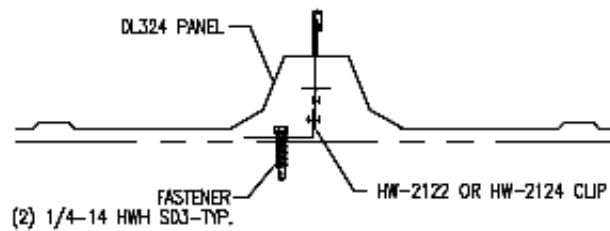
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CROSS SECTION AFTER SEAMING