

Evaluation Report

"5V Crimp"

Metal Roof Assembly

Manufacturer:

Metal Roof Factory, Inc.

599 Gus Hipp Blvd.

Rockledge, FL 32955

321.632.8300

for

Florida Product Approval

FL 43871.6

Florida Building Code 9th Edition (2026)

HVHZ

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "5V Crimp" Roof Panel

Material: Steel

Panel Thickness: 26 ga.

Panel Width: 24"

Panel Seam: Lapped

Support: Wood Deck

This item has been digitally signed and sealed by James L. Buckner, P.E., on this date below. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Prepared by:

James L. Buckner, P.E., SECB

Florida Professional Engineer # 31242

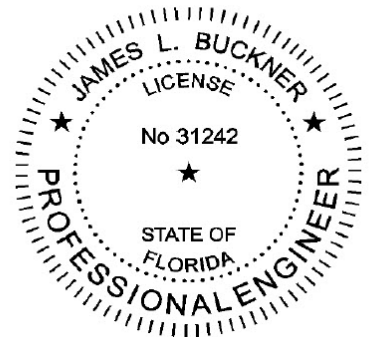
Florida Evaluation ANE ID: 1916

Project Manager: Diana Galloway

Report No. 26-820-5V-S6W-hz-ER

(Revises 23-623-1.5SL-S4W-hz-ER, FL43871.6)

Date: 8/17/2026



James L. Buckner, P.E.

FL31242

A handwritten signature in black ink, appearing to read "James L. Buckner", written over the printed name and license number.

Contents:

Evaluation Report

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CBUCK, Inc. dba CBUCK Engineering

Phone: (561) 491-9927 · Email: cbuck@cbuckinc.net · Website: www.cbuckinc.net

Business: 1374 Community Dr., Jupiter, FL 33458

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Manufacturer:	Metal Roof Factory, Inc. 599 Gus Hipp Blvd. Rockledge, FL 32955 321.632.8300 http://www.MetalRoofFactory.com
Product Name:	"5V Crimp"
Product Category:	Roofing
Product Sub-Category	Metal Roofing
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product/System Description:	"5V Crimp" Roof Panel 26 ga. Steel roof panel mechanically attached to 15/32" Plywood Deck with screws.
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/materials & standards: 1. Roof Panel 2. Fasteners 3. Cover Board (Optional) 4. Underlayment
Support:	Type: Plywood Deck (Design of support system is outside the scope of this evaluation.) Description: • 15/32" or greater plywood, • or Wood plank (min. specific gravity of 0.42)
Slope:	Non-HVHZ: In compliance with FBC 1507.4.2 HVHZ: 2:12 min. per FBC 1515.2 In compliance with FBC Chapter 15 based on the type of roof covering, applicable code sections and in accordance with manufacturer's recommendations.
Performance:	Wind Uplift Resistance: • Design Uplift Pressure: Refer to Table A (Refer to "Table A" attachment details herein)

Performance Standards:

The product described herein has demonstrated compliance with:

- TAS 125-03 – *Standard Requirements for Metal Roofing Systems*

Code Compliance:

The product(s) described herein have demonstrated compliance with the performance standards listed above as referenced in the:

Florida Building Code 9th Edition (2026)

Florida Building Code 9th Edition (2026), HVHZ

Evaluation Report Scope:

This product evaluation is limited to compliance with the structural requirements of the Florida Building Code, as related to the scope section to Florida Product Approval Rule 61G20-3.001.

Limitations and Conditions of Use:

- Scope of "Limitations and Conditions of Use" for this evaluation:
This evaluation report for "Optional Statewide Approval" contains technical documentation, specifications and installation method(s) which include "Limitations and Conditions of Use" throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under "Optional Statewide Approval".
- Metal roof and hip ridge covers are outside the scope of this evaluation. For installations outside HVHZ refer to FBC Section 1504.3.1.1. Inside HVHZ areas, Refer to FBC Section 1517.6
- Fasteners shall be corrosion resistant in accordance with applicable sections of FBC. Inside HVHZ fasteners shall comply with FBC Section 1517.5
- Installations located within 3000 feet of a saltwater coastline shall comply with FBC Section 1711 in accordance with authorities having jurisdiction.
- All insulation fasteners, membrane fasteners and stress plates shall comply with FBC Section 1520.4 as applicable.
- The design pressures listed herein is applicable to all roof pressure zones. Rational analysis or extrapolation to enhance pressure is not permitted in HVHZ zones.
- Maximum panel lengths, valleys & panel accessories shall comply with Roofing Application Standard RAS 133 as applicable in HVHZ areas.
- Deck shall be in compliance with applicable building code.
- Fire Classification is outside the scope of Rule 61G20-3 and is therefore not included in this evaluation.
- All panels shall be permanently labeled with the manufacturer's name and/or logo.
- This evaluation report approves the product assembly as described in this report for use in the High Velocity Hurricane Zone (HVHZ) code section. (Dade & Broward Counties)
- Option for application outside "Limitations and Conditions of Use"
Rule 61G20-3.005(1)(e) allows engineering analysis for "project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code". Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others.

Quality Assurance:

The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.0005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through Keystone Certifications, Inc. (FBC Organization ID# QUA 1824).

**Components/Materials
(by Manufacturer):**

Roof Panel:

5V Crimp

Material: Steel
Thickness: 26 ga. (min.)
Panel Widths: 24" (max.) Coverage
Rib Height: 3/8"
Yield Strength: 40 ksi min.
Corrosion Resistance: Per FBC Section 1507.4.3

Fastener:

Type: Hex-Head WoodZac Screw with WSW
Size: #9-11 x penetrate thru support deck 3/16" Minimum
Corrosion Resistance: Per FBC 1506.6 & 1507.4.4
Standard: Per ANSI/ASME B18.6.1

**Components &
Materials:
(by Others)**

Underlayment:

Non-HVHZ:

One of the following per FBC 8th Edition (2023), Section 1507.1.1.

ASTM D226, D1970, D4869, D6757, D8257

Installation shall comply with FBC including Sections 1507.1.1.1, 1507.1.1.2 where applicable and in accordance with roof manufacturer's recommendations.

HVHZ:

One of the following per FBC 8th Edition (2023), Section 1518.2.

ASTM D226, D1970, D4869, D6757, D8257

Installation shall comply with FBC including Sections 1518.2, 1518.2.1, Table, 1518.2.1, 1518.2.2, 1518.2.3, 1518.2.4 where applicable and in accordance with roof manufacturer's recommendations.

Cover Board (Optional):

Any 1/2" min. approved coverboard with current approval.

Installation:

Installation Method:

(Refer to "TABLE A" below and drawings at the end of this evaluation report.)

- Fastener Spacing: **Refer to "TABLE A" Below**
(Attached through the panel rib peaks across the width of the panel.)
- Row Spacing: **Refer to "TABLE A" Below**
(along the length of the panel)
- Minimum fastener penetration thru bottom of support, 3/16".
- For panel construction at the end of panels, refer to manufacturer's instructions and any site specific design.

TABLE "A" ALLOWABLE LOADS "5V Crimp" (26 ga. Steel) Roof Panel attached to Wood Deck						
#	Panel Width (max.)	Deck Thickness (min.)	Fastener Spacing (max.)	Row Spacing (max.)	Panel Seam	Design Pressure (ASD)
1	24"	15/32"	12"	24"	Panel Lap Seam	- 108.5 PSF
2	24"	15/32"	6"	24"	Panel Lap Seam	- 156.5 PSF
Note: Allowable design pressure(s) for allowable stress design (ASD).						

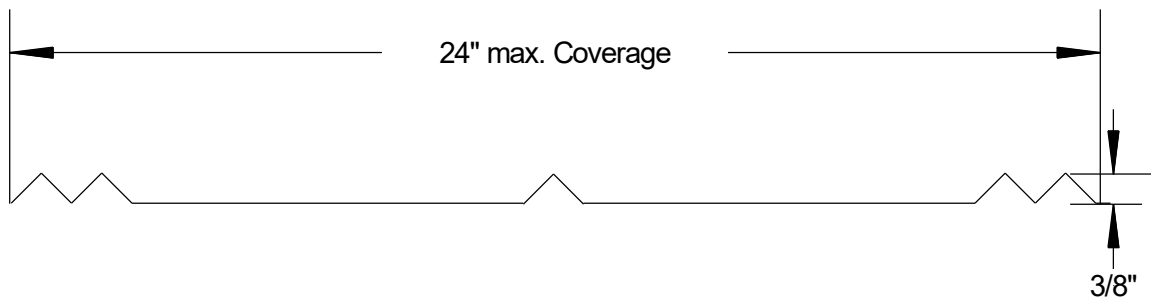
Install the "5V Crimp" roof panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 8th Edition (2023). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

Referenced Data:

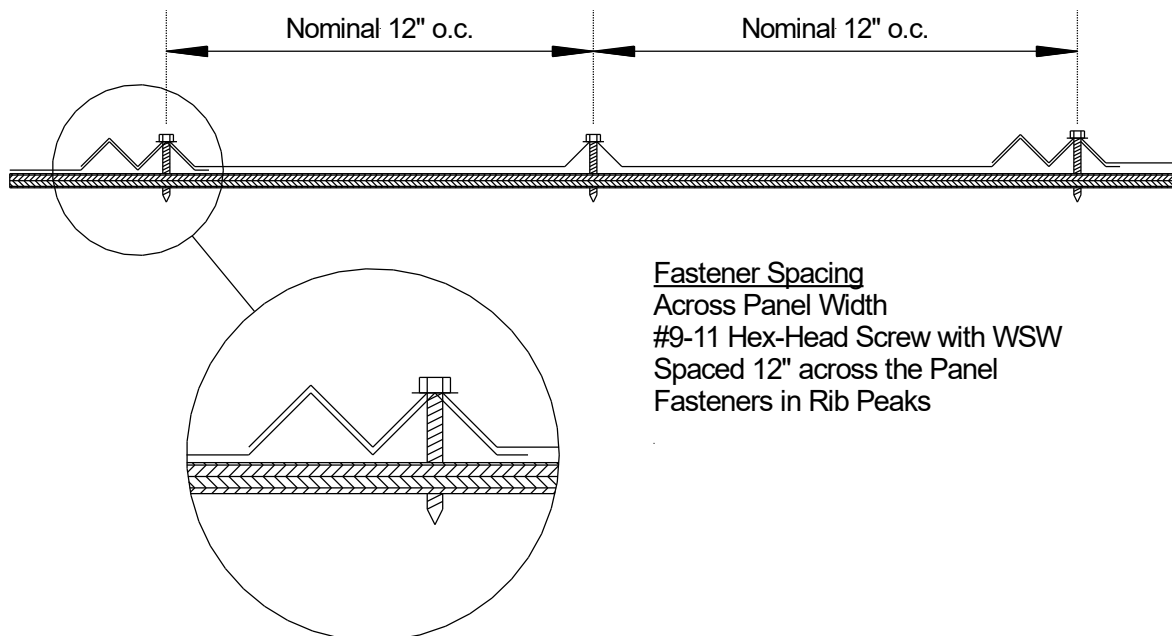
1. TAS 125 Uplift Test (Per UL580-94(98) and UL 1897-98) & ASTM E8
By Force Engineering & Testing (FBC Organization ID# TST 5328)
Report No. 148-0509T-08C-E, Date: 04/3/12
2. Quality Assurance
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)
Metal Roof Factory Licensee #343
3. Certification of Independence
By James L. Buckner, P.E. @ CBLUE Engineering
(FBC Organization # ANE 1916)
1. TAS 100-95 Wind Driven Rain Test
By Farabaugh Engineering & Testing, Inc. (FBC Organization ID# TST 1654)
Report No. T215-08, Date: 7/14/08

Other Tests (Not Part of This Evaluation Report):

Installation Method
Metal Roof Factory, Inc.
"5V Crimp" (26 ga. Steel) Roof Panel attached to Plywood Deck



Typical Panel Profile
(24" max. width)



Typical Panel Assembly View

Installation Method Metal Roof Factory, Inc. "5V Crimp" (26 ga. Steel) Roof Panel attached to Plywood Deck

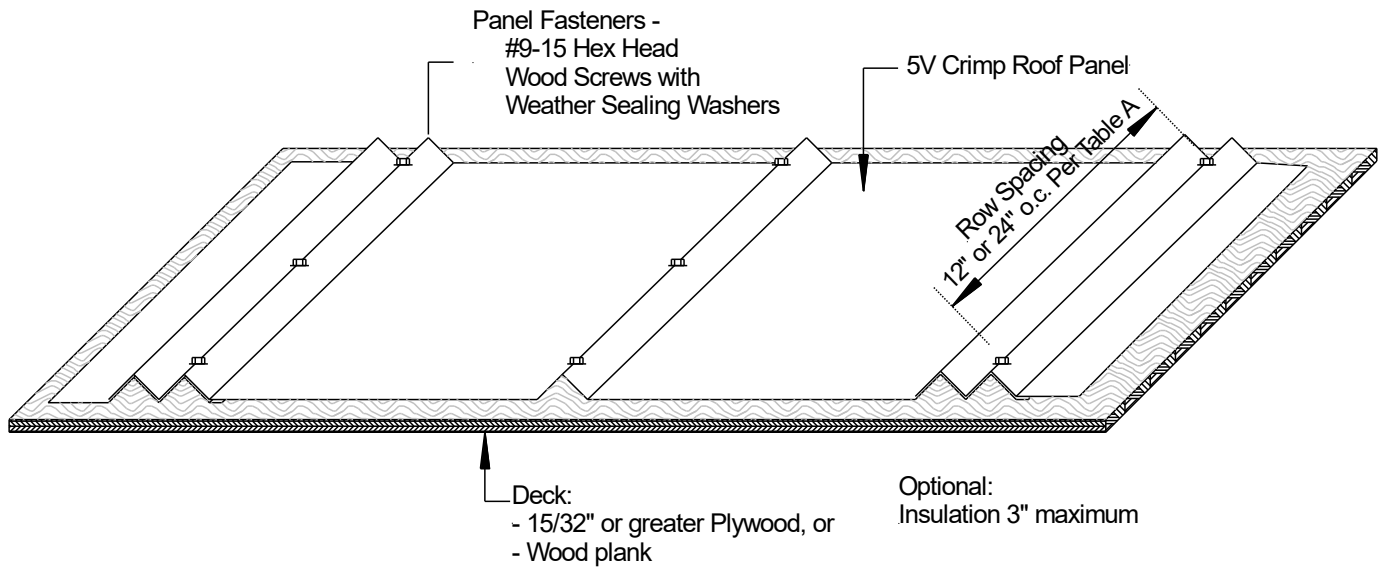


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