

Evaluation Report "1.5 Snap Lock" Metal Roof Assembly

Manufacturer:
Metal Roof Factory, Inc.

599 Gus Hipp Blvd.
Rockledge, FL 32955
321.632.8300

for

Florida Product Approval

FL 43871.3 R1

Florida Building Code 9th Edition (2026)

Method: 1 - D
Category: Roofing
Sub - Category: Metal Roofing

Product: "1.5 Snap Lock" Roof Panel
Material: Aluminum
Panel Thickness: 24 ga.
Panel Width: 2" - 16"
Panel Seam: Snap-Lock
Support: Wood Deck

Prepared by:

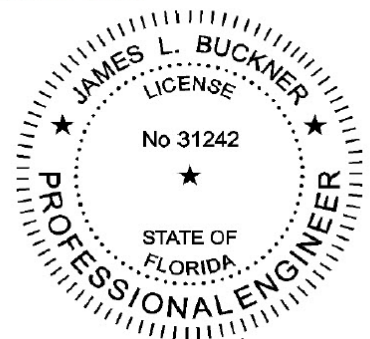
James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 26-820-1.5SL-A3W-ER
(Revises 23-623-1.5SL-A3 -ER, FL43871.3)
Date: 8/17/2026

Contents:

Evaluation Report

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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.



James L. Buckner, P.E.

FL31242

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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

Manufacturer:	Metal Roof Factory, Inc. 599 Gus Hipp Blvd. Rockledge, FL 32955 321.632.8300 http://www.MetalRoofFactory.com
Product Name:	"1.5 Snap Lock"
Product Category:	Roofing
Product Sub-Category	Metal Roofing
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product/System Description:	"1.5 Snap Lock" Roof Panel 0.032" Aluminum Snap Lock roof panel mechanically attached to Wood Deck with fixed clips and screws.
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/materials & standards: 1. Roof Panel 2. Roof Panel Clip 3. Fasteners 4. Underlayment 5. Insulation (Optional)
Support:	Type: Wood 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:	In compliance with FBC 1507.4.2 Roof slope shall be 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*

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

Florida Building Code 9th Edition (2026)

**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".

- This report is a building code product evaluation per FLPE rule (FAC) 61G15-36 to comply with Florida product approval rule (FAC) 61G20-3. This evaluation report is part of the Florida Building Commission approval for the listed code related criteria. This report by James Buckner, P.E. and CBUCK Engineering is not a design certification of code compliance construction submittal documentation, per FBC section 107, for any individual structure, site specific or permit design.
- Design of support system is outside the scope of this report.
- All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of FBC. Installations located within 3000 feet of a saltwater coastline shall comply with Section 1711 in accordance with authorities having jurisdiction.
- Metal roof and hip ridge covers is outside the scope of this evaluation and shall comply with FBC Section 1504.3.1.1.
- Fire Classification is outside the scope of Rule 61G20-3 and is therefore not included in this evaluation.
- This evaluation report does not evaluate the use of this product for use in the High Velocity Hurricane Zone 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:
Material: Aluminum
Thickness: 0.032" (min.)
Panel Widths: 2" - 16" (max.) Coverage
Major Rib Height: 1-1/2"
Yield Strength: 3105-H14 (in compliance with ASTM B 209)
Material Standards: Per FBC Section 1507.4.3
Corrosion Resistance: Per FBC 1507.4.3(2)

Roof Panel Clip:
Type: One-piece, fixed clip
Material: Stainless Steel
Thickness: 18 Gauge min.
Yield Strength: 40 ksi min.
Dimensions: 1-1/2" (tall) x 3-1/2" (long)
Corrosion Resistance: Per FBC Section 1506.7

Fastener:
Type: Low Profile Pancake-Head Wood Screw
Size: #12-11 x penetrate thru support deck 3/16" Min.
Corrosion Resistance: Per FBC 1506.6 & 1507.4.4
Standard: Per ANSI/ASME B18.6.1

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

Underlayment:
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.

Insulation (Optional):
Type: Rigid Insulation Board
Thickness: 3" (max.)
Compressive Strength: 20 psi min

Insulation shall comply with FBC Section 1508. When insulation is incorporated, fastener length shall conform to penetrate thru bottom of support a minimum of 3/16".

Installation:

Installation Method:

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

- Fastener Spacing: **Refer to "TABLE A" Below**
(along the length of the panel)
- Rib Interlock: Snap-Lock
(Panel ribs shall be fully engaged to form an integral snap-lock.)
- 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 "1.5 Snap Lock" (0.032" Min.) Roof Panel attached to Wood Deck							
#	Panel Width (max.)	Deck Thickness (min.)	# Fasteners per Clip	Fastener Spacing (max.)	Panel Adhesive	Panel Seam (min.)	Design Pressure (ASD)
1	16"	15/32"	2	16"	YES	SnapLock	- 45 PSF
2	16"	15/32"	2	6"	YES	SnapLock	- 52 PSF
Notes: 1. Allowable design pressure(s) for allowable stress design (ASD). 2. 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.							

Install the "1.5 Snap Lock" 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:

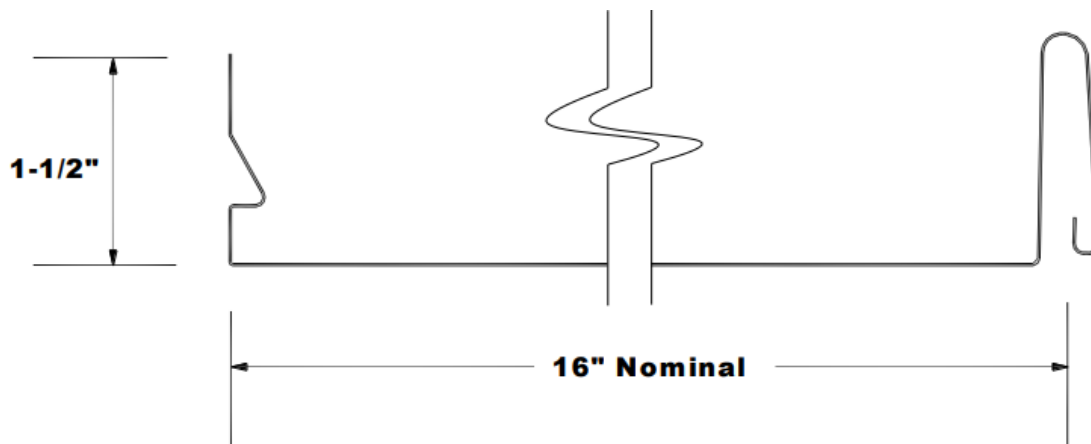
1. UL580-94 and UL 1897-98 Uplift Test
By PRI Construction Materials Technologies (FBC Organization ID# TST 5878)
Report No. FMRP-002-02-01, Date: 3/24/07
2. UL580-94 and UL 1897-98 Uplift Test
By PRI Construction Materials Technologies (FBC Organization ID# TST 5878)
Report No. FAE-009-02-01, Date: 3/24/07
3. Authorization to Use Test Reports
By Metalforming, Inc.
4. Quality Assurance
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)
Metal Roof Factory Licensee #343
5. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering
(FBC Organization # ANE 1916)
- 1.1. TAS 100-95 Wind Driven Rain Test
By Fairbairn Engineering & Testing, Inc. (FBC Organization ID# TST 16594)
Report No. T200-07, Date: 10/16/21

Other Tests

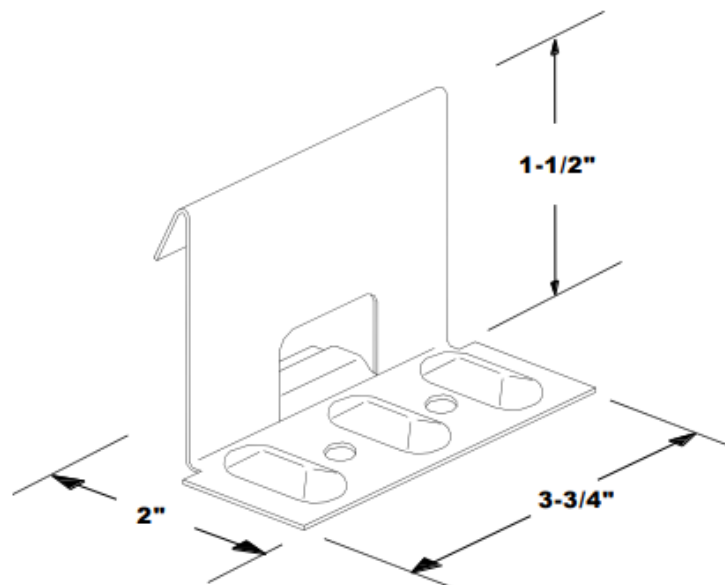
(Not Part of This
Evaluation Report):

Installation Method Metal Roof Factory, Inc.

"1.5 Snap Lock" (0.032" Aluminum) Roof Panel attached to Wood Deck

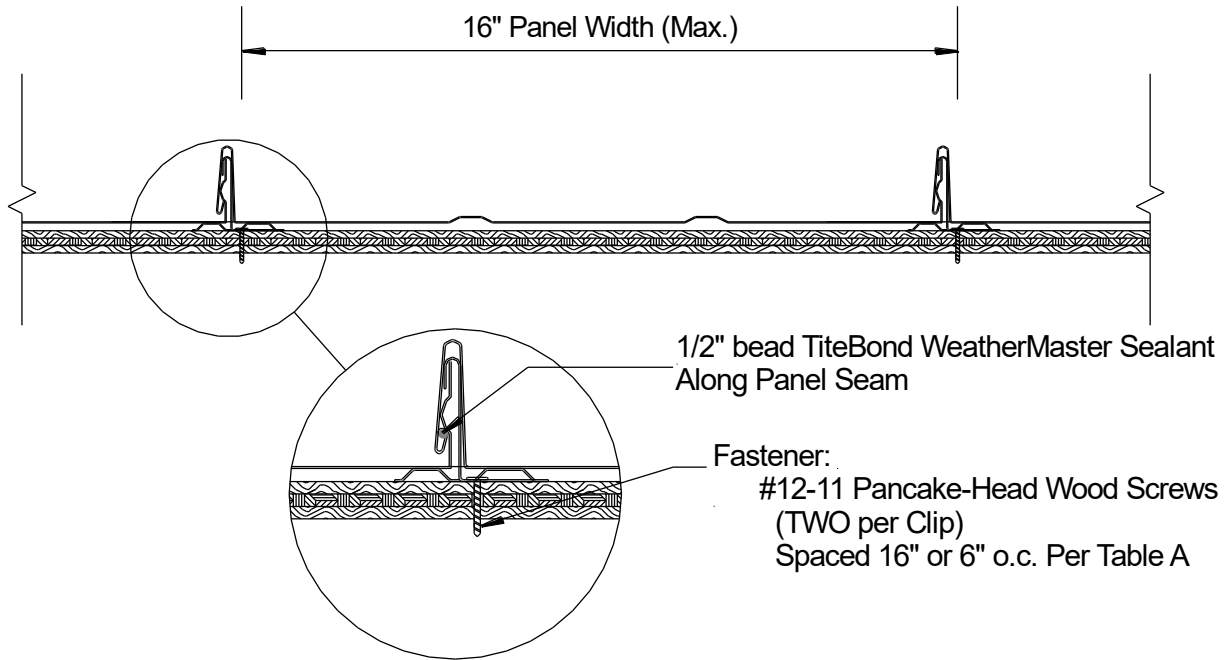


Typical Panel Profile
(2" – 16" max. width)



Typical Panel Clip
(1500SNS Fixed Clip - 18-gauge Stainless Steel)

Installation Method Metal Roof Factory, Inc. "1.5 Snap Lock" (0.032" Aluminum) Roof Panel attached to Wood Deck



Typical Panel Assembly View

TABLE "A" ALLOWABLE LOADS "1.5 Snap Lock" (0.032" Alum.) Roof Panel attached to Wood Deck							
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