

## 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 43871.2 R1

#### Florida Building Code 9th Edition (2026)

HVHZ

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "1.5 Snap Lock" Roof Panel

Material: Steel

Panel Thickness: 24 ga.

Panel Width: 2" - 16"

Panel Seam: Snap-Lock

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. 26-820-1.5SL-S4W-hz-ER

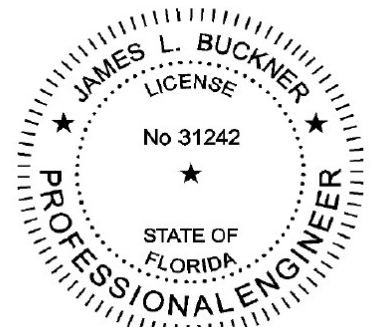
(Revises 23-623-1.5SL-S4W-hz-ER, FL43871.2)

Date: 8/17/2026

#### Contents:

Evaluation Report

Pages 1 – 7



James L. Buckner, P.E.

FL31242

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CBUCK, Inc. dba CBUCK Engineering

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|                                    |                                                                                                                                                                                                                                                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:                      | <b>Metal Roof Factory, Inc.</b><br>599 Gus Hipp Blvd.<br>Rockledge, FL 32955<br>321.632.8300<br><a href="http://www.MetalRoofFactory.com">http://www.MetalRoofFactory.com</a>                                                                                          |
| Product Name:                      | <b>"1.5 Snap Lock"</b>                                                                                                                                                                                                                                                 |
| 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<br>24 ga. Steel Snap Lock roof panel mechanically attached to Wood Deck with fixed clips and screws.                                                                                                                                        |
| clipProduct Assembly as Evaluated: | Refer to Page 4 of this report for product assembly components/materials & standards:<br><ol style="list-style-type: none"><li>1. Roof Panel</li><li>2. Roof Panel Clip</li><li>3. Fasteners</li><li>4. Underlayment</li><li>5. Cover Board (Optional)</li></ol>       |
| Support:                           | <b>Type:</b><br>Wood Deck<br>(Design of support system is outside the scope of this evaluation.)<br><b>Description:</b> <ul style="list-style-type: none"><li>• 15/32" or greater plywood,</li><li>• or Wood plank (min. specific gravity of 0.42)</li></ul>           |
| Slope:                             | <b>Non-HVHZ:</b> In compliance with FBC 1507.4.2<br><b>HVHZ:</b> 2:12 min. per FBC 1515.2<br>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: <ul style="list-style-type: none"><li>• Design Uplift Pressure: <b>Refer to Table A</b><br/>(Refer to "Table A" attachment details herein)</li></ul>                                                                                           |

**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)**

**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.
- 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:**  
Material: Steel  
Thickness: 24 ga. (min.)  
Panel Widths: 2" - 16" (max.) Coverage  
Major Rib Height: 1-1/2"  
Yield Strength: 40 ksi min.  
Material Standards: Per FBC 1507.4.3 (Non-HVHZ), 1518.9 (HVHZ)  
Corrosion Resistance: Per FBC 1507.4.3(2) (Non-HVHZ), 1518.9 (HVHZ)

**Roof Panel Clip:**  
Type: One-piece, fixed clip  
Material: Galvanized 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" 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**  
(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<br>"1.5 Snap Lock" (24 ga. 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                    | 24"                     | NO             | SnapLock          | - 86 PSF              |
| 2                                                                                                                                                                                                                                                      | 16"                | 15/32"                | 2                    | 12"                     | NO             | SnapLock          | -108.5 PSF            |
| 3                                                                                                                                                                                                                                                      | 16"                | 15/32"                | 2                    | 6"                      | NO             | SnapLock          | -116 PSF              |
| Notes:<br>1. Allowable design pressure(s) for allowable stress design (ASD).<br>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. |                    |                       |                      |                         |                |                   |                       |

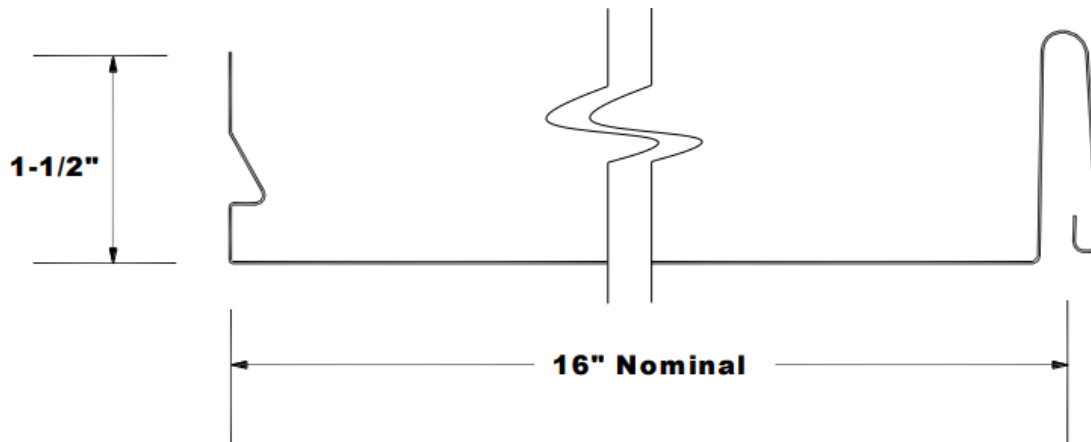
Install the "1.5 Snap Lock" roof panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 8th Edition (2023). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

### Referenced Data:

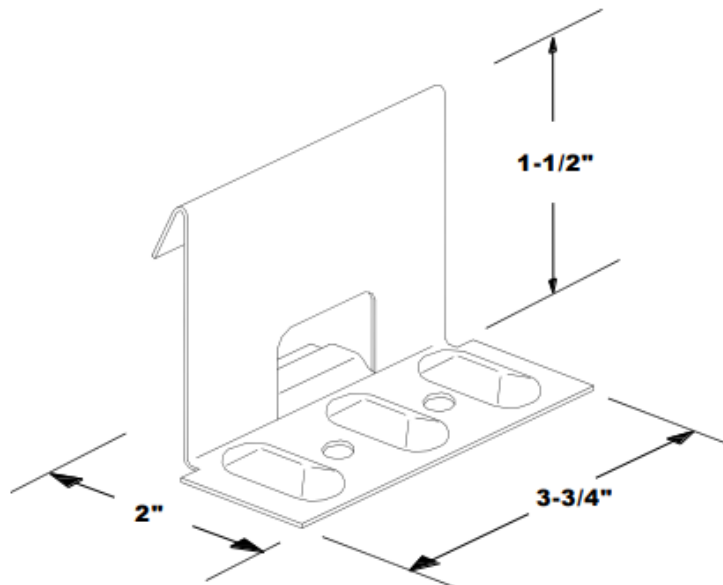
1. TAS 125 Uplift Test (Per UL580-06 and UL 1897-12) & ASTM E8  
By Force Engineering & Testing (FBC Organization ID# TST 5328)  
Report No. 72-0108T-07A-D, Date: 3/24/07
2. Authorization to Use Test Reports  
By Metalforming, Inc.
3. Quality Assurance  
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)  
Metal Roof Factory Licensee #343
4. 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 Force Engineering & Testing, Inc. (FBC Organization ID# TST 16594)  
Report No. T260-07, Date: 10/6/21

**Other Tests  
(Not Part of This  
Evaluation Report):**

**Installation Method**  
**Metal Roof Factory, Inc.**  
**"1.5 Snap Lock" (24 ga. Steel) Roof Panel attached to Wood Deck**

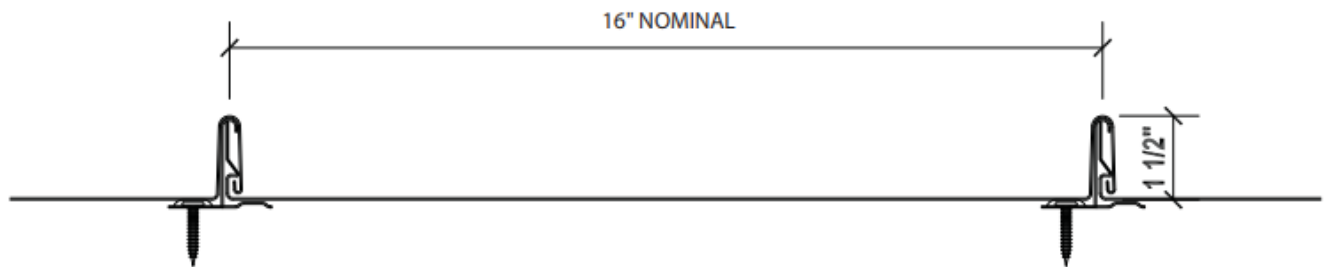


**Typical Panel Profile**  
**(2" – 17-3/4" max. width)**



**Typical Panel Clip**  
**(1500SNS Fixed Clip - 18-gauge Galv. Steel)**

**Installation Method**  
**Metal Roof Factory, Inc.**  
**“1.5 Snap Lock” (24 ga. Steel) Roof Panel attached to Wood Deck**



### Typical Panel Assembly View

| TABLE "A" ALLOWABLE LOADS<br>"1.5 Snap Lock" (24 ga. 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                    | 24"                     | NO             | SnapLock          | - 86 PSF              |
| 2                                                                                           | 16"                | 15/32"                | 2                    | 12"                     | NO             | SnapLock          | -108.5 PSF            |
| 3                                                                                           | 16"                | 15/32"                | 2                    | 6"                      | NO             | SnapLock          | -116 PSF              |

Notes:

- Allowable design pressure(s) for allowable stress design (ASD).
- 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.