

Evaluation Report

"Metal Slate Series"

Metal Roof Assembly

Manufactured by:



Modern Metal Roofing

1442 Amy Lane

Franklin, IN 46131

for

Florida Product Approval

FL 48002.1

Florida Building Code 8th 2023

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "Metal Slate Series"

Material: Steel

Panel Thickness: 24 gauge

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., S.E.C.B.

Florida Professional Engineer # 31242

Florida Evaluation ANE ID: 1916

Project Manager: Diana Galloway

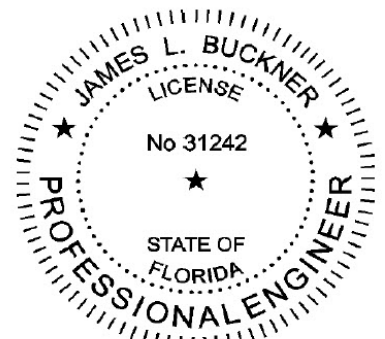
Report No. 26-797-MSS-S4W-ER (New)

Date: 03/03/2026

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Evaluation Report

Pages 1 – 6



James L. Buckner, P.E.

FL31242

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CBUCK Engineering

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

Main Office: 1374 Community Dr., Jupiter, Florida 33458

CBUCK Engineering

Specialty Structural Engineering

CBUCK, Inc. Certificate of Authorization #8064

Manufacturer:



Modern Metal Roofing

1442 Amy Lane
Franklin, IN 46131
317-868-8405
<https://modernmetalroofing.com/>

Product Name:

"Metal Slate Series"

Product Category:

Roofing

Product Sub-Category

Metal Roofing

Compliance Method:

State Product Approval Rule 61G20-3.005 (1) (d)

**Product/System
Description:**

"Metal Slate Series" Roof Panel
24 gauge steel roof panel, with the appearance of a traditional slate roof attached to plywood deck.

**Product Assembly as
Evaluated:**

Refer to Page 4 of this report for product assembly components/materials & standards:
1. Roof Panel
2. Fasteners
3. Underlayment

Support:

Type: Plywood per FBC Chapter 23
Thickness: 15/32" (As tested and Evaluated)

(Design of support and its attachment to support framing is outside the scope of this evaluation.)

Slope:

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: **- 93.5 PSF**
(Refer to attachment details herein)*

Performance Standards:

The product described herein has demonstrated compliance with:
➤ **UL580-06** – *Test for Uplift Resistance of Roof Assemblies—with Revisions through February 1998*
➤ **UL 1897-15** – *Uplift test for roof covering systems*

Standards Equivalency:

UL 580/1897-12 standard version used to test the evaluated product assembly is equivalent with the prescribed standards in UL 580/1897-15 adopted by the Florida Building Code 8th Edition (2023).

Code Compliance:	The product installed as described herein demonstrates compliance with the Florida Building Code 8th Edition (2023) International Building Code 2021
Evaluation Report Scope:	This product evaluation demonstrates compliance of this product with the structural requirements of the Florida Building Code of products which comprises the building envelope and structural frame, as related to Florida Product Approval Rule 61G20-3.001.
Limitations and Conditions of Use:	• <u>Scope of "Limitations and Conditions of Use" for this evaluation:</u> 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. • All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of FBC, including but limited to Sections 1504.3.2, 1506.6 and 1507.4.4. • Design of support system is outside the scope of this report. • 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) • <u>Option for application outside "Limitations and Conditions of Use"</u> 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 9N-3.0005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through Farabaugh Engineering & Testing, Inc. (FBC Organization ID# QUA 7733).

**Components/Materials
& Standards:**

Roof Panel:

“Metal Slate Series”

Material: Steel
Thickness: 24 Gauge
Panel Length: 44-1/4” (Nominal)
Panel Height: 16” (Nominal)
Yield Strength: 40 ksi minimum
Corrosion Resistance: In compliance with FBC Section 1507.4.3:
ASTM A653 G90 galvanized steel

Fasteners:

Type: Pancake Head Screw
Size : #10-9 x 2” long
Corrosion Resistance: Per FBC Section 1507.4.4 and 1506.6
Standard: Per ANSI/ASME B18.6.1

Underlayment:

Material and application shall be in compliance with FBC Section 1507.1.1 and in accordance with applicable code sections and manufacturer’s recommendations.

Installation:

MMR “Metal Slate Series” Roof Panel System

(Refer to drawings at the end of this evaluation report.)

- Panel Attachment: Using a staggered course layout, set panel in locking hems and joints of previous panels. Install fasteners in pre-drilled holes in top flange.
- Fastener Spacing: **7” o.c. Seven (7) fasteners per panel**
(across the panel profile)
- Rib Interlock: Interlocking Laps

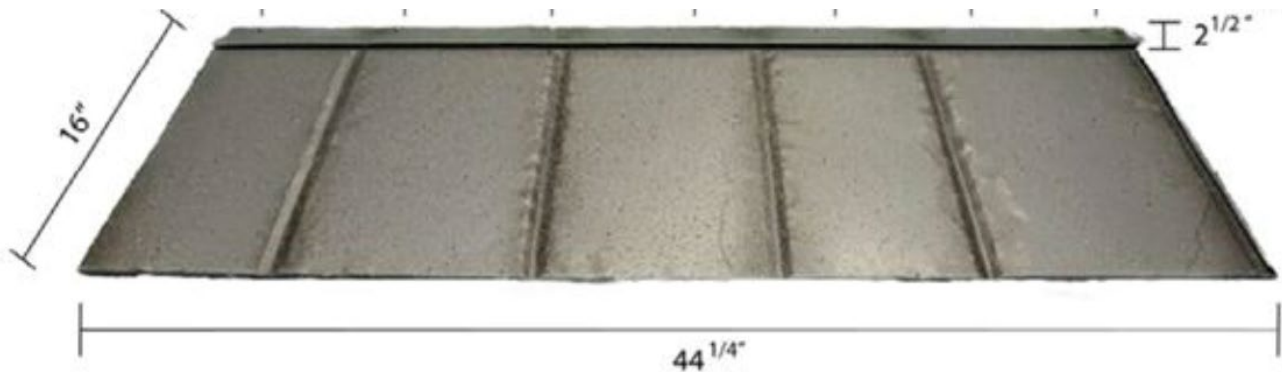
Install the MMR “Metal Slate Series” roof panel assembly in compliance with the installation methods listed in this report and applicable code sections of FBC 8th 2023. The installation methods described herein is in accordance with the scope of this evaluation report. Refer to manufacturer’s installation instructions as a supplemental guide for attachment.

Referenced Data:

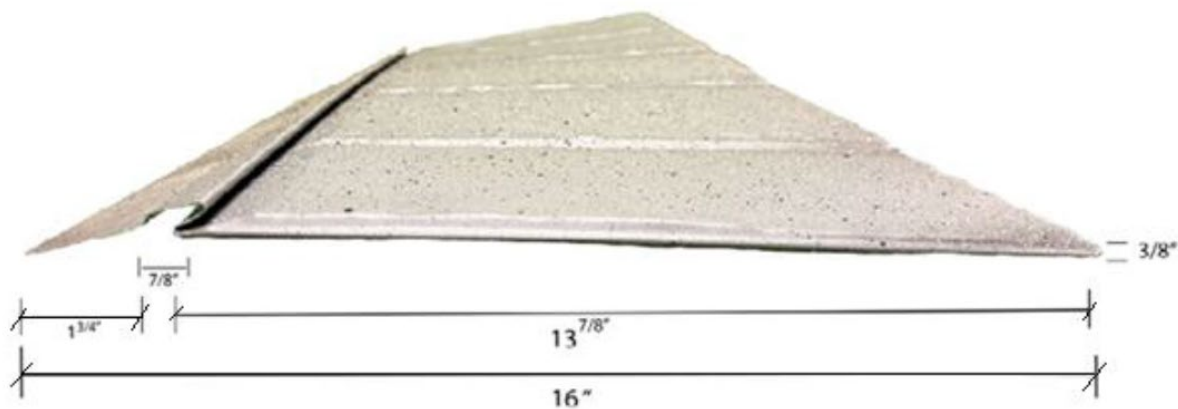
1. UL580/1897 Uplift Test
By Farabaugh Engineering & Testing, Inc. (FBC Organization ID# TST 1654)
Report # T133-26, Dated 2/26/26
2. Quality Assurance
By Farabaugh Engineering & Testing, Inc. (FBC Organization ID# QUA 7733)
3. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering
(FBC Organization # ANE 1916)

**Installation Method
Modern Metal Roofing
“Metal Slate Series” Roof Panel**

Profile Drawings

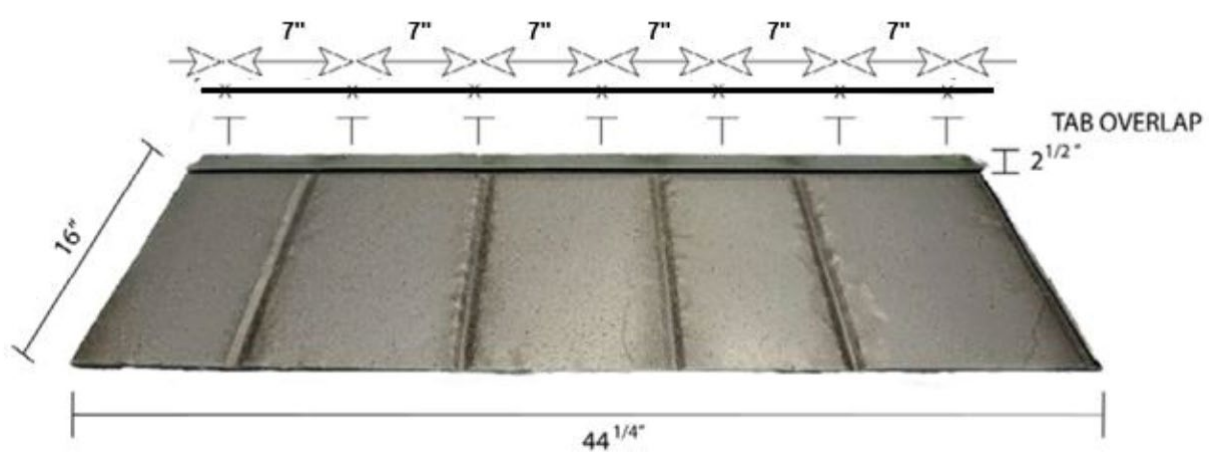


**Typical “Metal Slate Series” Panel
Panel Profile View**



**Typical “Metal Slate Series” Panel
Side Elevation View**

**Installation Method
Modern Metal Roofing
“Metal Slate Series” (24 Gauge) Roof Panel System**



Typical Fastener Spacing Along Panels