

Evaluation Report

"CMP S2500"

Metal Roof Assembly

Manufacturer:

Construction Metal Products (CMP) c/o Gibraltar Metal Building Envelope

2204 W Front Street,
Statesville, NC 28677
(800) 874-0335

for

Florida Product Approval

FL 47878.2

Florida Building Code 8th Edition (2023)

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Outside HVHZ

Product: "CMP S2500" Roof Panel

Material: Steel

Panel Thickness: 24 gauge

Panel Width: 18"

Support: Steel 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.

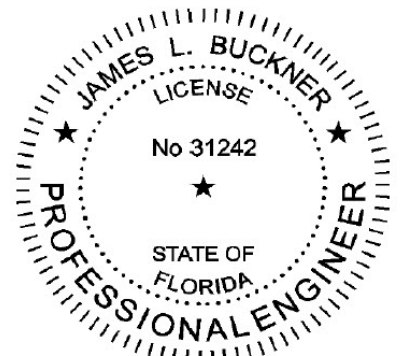
Prepared by:

James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 25-774-S2500-S4S-ER *(new)*
Date: 10/16/2025

Contents:

Evaluation Report

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James L. Buckner, P.E.

FL31242

A handwritten signature in black ink, appearing to read "James L. Buckner".

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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:	Construction Metal Products (CMP) c/o Gibraltar Metal Building Envelope 2204 W Front Street, Statesville, NC 28677 (800) 874-0335 https://gibraltarbuildingproducts.com
Product Name:	"CMP S2500"
Product Category:	Roofing
Product Sub-Category	Metal Roofing
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product/System Description:	"CMP S2500" Roof Panel 24 gauge steel standing seam roof panel mechanically attached to Steel Deck with panel clips & screws.
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/materials & standards: 1. Roof Panel 2. Panel Clip 3. Fasteners 4. Underlayment 5. Insulation Board
Support:	Type: Steel Deck (Design of support and its attachment to support framing is outside the scope of this evaluation.) Description: • Thickness: 22 gauge minimum • Yield strength: 33 ksi minimum
Slope:	Minimum slope shall be: 1/2 : 12 or greater 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" <i>Allowable design pressure(s) for allowable stress design (ASD)</i>

Performance Standards:	The product described herein has demonstrated compliance with: • UL 1897-15 – <i>Uplift test for roof covering systems</i>
Standards Equivalency:	The UL 1897-98 standard version used to test the evaluated product assembly is equivalent with the prescribed standards in UL 1897-15 adopted by the Florida Building Code 8th Edition (2023).
Code Compliance:	The product(s) described herein have demonstrated compliance with the performance standards listed above as referenced in the Florida Building Code 8th Edition (2023) For use: Outside 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:	• <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”. • <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. • 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, including but not limited to Sections 1504.3.2, 1506.6 and 1507.4.4. • 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)
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 Farabaugh Engineering & Testing, Inc. (FBC Organization ID# QUA 7733).

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

Roof Panel:
CMP S2500
Material: Steel
Thickness: 24 gauge (min.)
Panel Widths: 18" (max.) Coverage
Rib Height: 2"
Yield Strength: 50 ksi min.
Corrosion Resistance: Per FBC Section 1507.4.3

Roof Panel Clips:

Product Name: "S2500 Floating Clip"
Type: Two-piece, floating clip
Material: Galvanized Steel
Thickness: Clip Tab: 22 Gauge Galvanized Steel
Clip Base: 16 Gauge Galvanized Steel
Yield Strength: 40 ksi min.
Dimensions: 2.4" x 4.3"
Corrosion Resistance: Per FBC Section 1506.7

Fastener:

Type: Truss-Head Self-Drilling Screw w/tin caps
Size: #14 – 13 x length for 1/2" deck penetration
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.4
Standard: Per SAE J78-1979

Seam Adhesive/Sealant:

Product Name: 3388-P Hot Melt Adhesive
Type: One component, synthetic resin adhesive
Application Size: 1/8" continuous bead
Application Location: along female flange the full length of panel
(Design of adhesive is outside the scope of this evaluation.)

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

Underlayment:

Type: Peel & Stick
Application Type: Self-Adhered

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

Insulation Board:

Type: Rigid Insulation Cover Board
Material: Closed-cell Polyisocyanurate
Thickness: 1/2" (min.) to 3" (max.)
Standard: ASTM C1289, Type II, Class

Insulation Notes:

- Insulation shall comply with FBC Section 1508.
- When insulation is incorporated, fastener length shall conform to penetrate thru bottom of support a minimum of 1/2".

Installation:

Installation Method:

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

- Clip Spacing: **Refer to "TABLE A" Below**
(along the length of the panel)
- Two (2) fasteners per Clip
- Rib Interlock: Mechanically seamed 90° (SINGLE-LOCK)
- Minimum fastener penetration thru bottom of support, 1/2".
- For panel construction at the end of panels, refer to manufacturer's instructions and any site specific design.

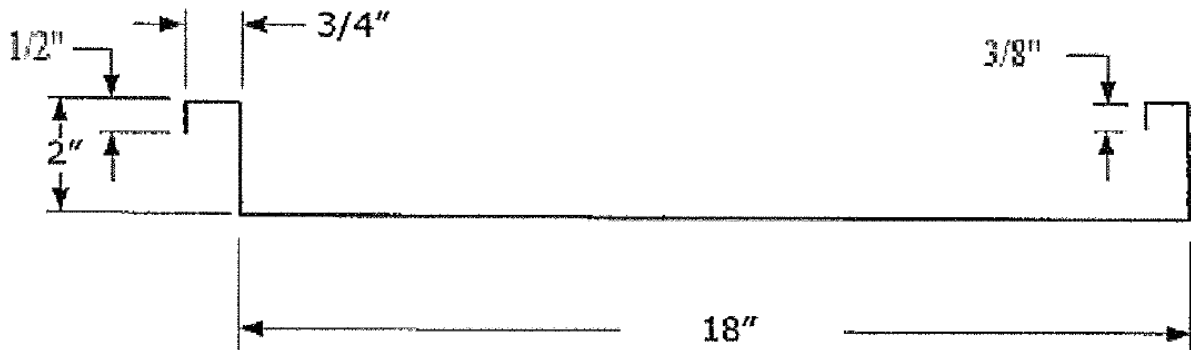
TABLE "A" CMP S2500, .24 GA. ATTACHED TO 22 GA. STEEL DECK ALLOWABLE LOADS		
	METHOD 1	METHOD 2
Design Pressure:	- 55 PSF	- 101 PSF
Clip Spacing:	60"	12"
# of Fasteners per Clip:	2	2
Panel Seam:	90°	90°
Adhesive:	1/8" Bead	1/8" Bead
Notes: • Allowable design pressure(s) for allowable stress design (ASD).		

Install the "CMP S2500" 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.

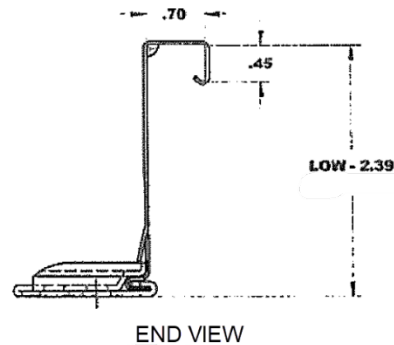
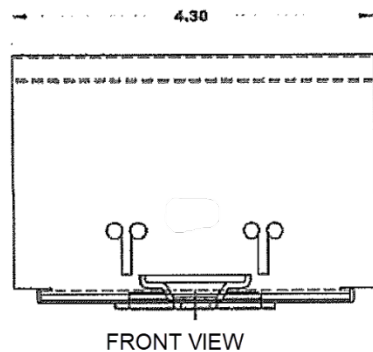
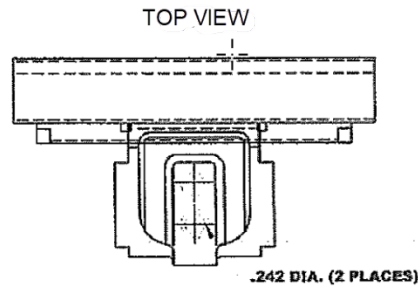
Referenced Data:

1. UL1897 Uplift Test
By Farabaugh Engineering & Testing, Inc. (FBC Organization ID# TST 1654)
 - a) Project #T148-15 Date: 3/31/15
 - b) Project #T125-14A Date: 2/02/14
2. Quality Assurance
Farabaugh Engineering & Testing, Inc. (FBC Organization ID# QUA 7733)
Construction Metal Products (CMP)
3. Equivalency of Test Standard Certification
By James L. Buckner, P.E. @ CBUCK Engineering
Authorization to Use Engineering Data
4. Engineering Analysis (IB,TA)
By CBUCK Engineering
5. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering
(FBC Organization # ANE 1916)

Installation Method Gibraltar, Metal Building Envelope "CMP S2500" (24 gauge Steel) Roof Panel attached to Steel Deck

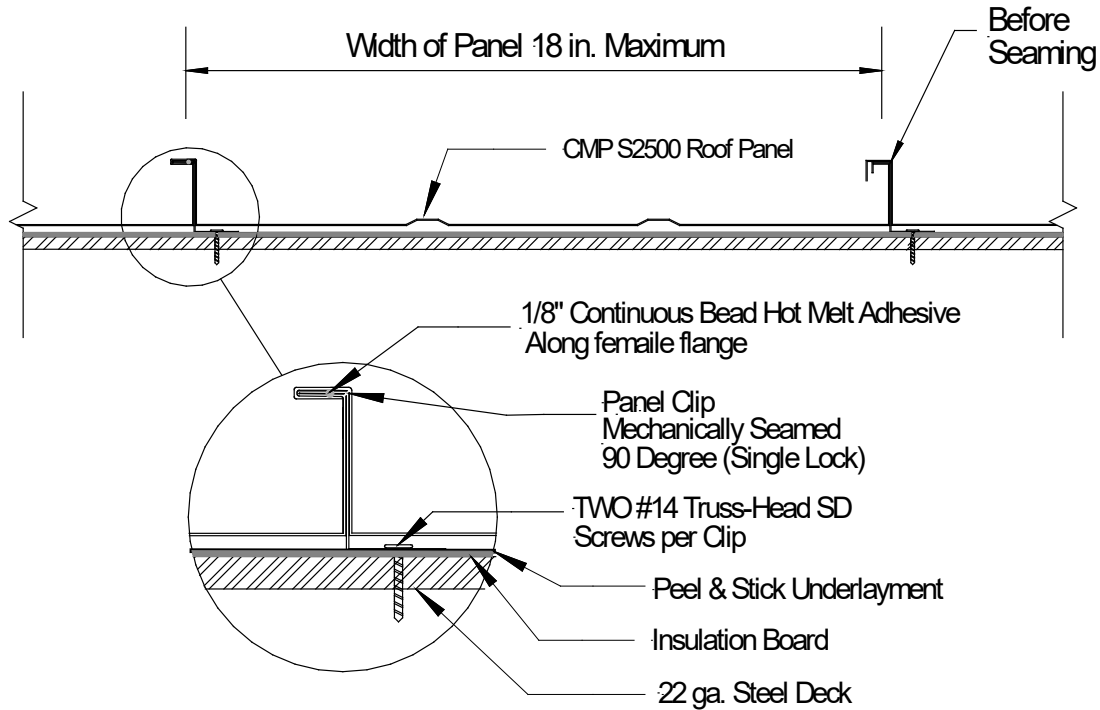


Typical Panel Profile

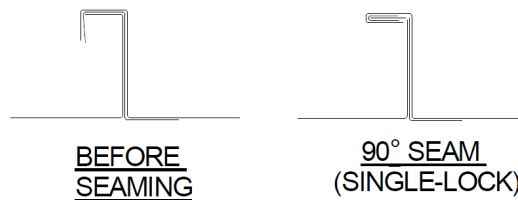


Panel Clip Profile "Floating Clip" (2 Piece Floating Clip)

Installation Method Gibraltar, Metal Building Envelope “CMP S2500” (24 gauge Steel) Roof Panel attached to Steel Deck



Typical Assembly Profile View



Typical Panel Seams

TABLE "A"		
CMP S2500, 24 GA. ATTACHED TO 22 GA. STEEL DECK		
ALLOWABLE LOADS		
	METHOD 1	METHOD 2
Design Pressure:	- 55 PSF	- 101 PSF
Clip Spacing:	60"	12"
# of Fasteners per Clip:	2	2
Panel Seam:	90°	90°
Adhesive:	1/8" Bead	1/8" Bead