

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 47879.2 R1

Florida Building Code 8th Edition (2023)

Method: 1 - D

Category: Structural Components

Sub - Category: Roof Deck

Outside HVHZ

Product: "CMP S2500" Roof Panel

Material: Steel

Panel Thickness: 24 gauge

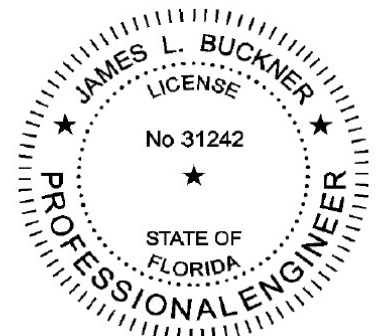
Panel Width: 18"

Support: Steel Purlins

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. 25-786-S2500-S418P-ER
(New)
Date: 12/11/2025



James L. Buckner, P.E.
FL31242

James L. Buckner
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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

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:	Structural Components
Product Sub-Category	Roof Deck
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product/System Description:	"CMP S2500" Standing Seam Roof Panel 24 gauge, 18" wide steel roof panel attached to 16 gauge Steel Purlins mechanically seamed with two-piece floating panel clips.
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/materials & standards: 1. Roof Panel 2. Roof Panel Clips 3. Fasteners
Support:	Type: Steel Purlins (Design of support system is outside the scope of this evaluation.) Description: • Steel Purlins, 16 Gauge minimum • Yield Strength: 50 ksi minimum
Slope:	Minimum slope shall be: 1/2 : 12 or greater Minimum 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" <i>Allowable design pressure(s) for allowable stress design (ASD)</i>

Performance Standards:	The product described herein has demonstrated compliance with: • ASTM E 1592-05 – <i>Test Method for Structural Performance of Sheet Metal Roof and Siding Systems By Uniform Static Air Pressure Difference</i>
Standards Equivalency:	The ASTM E 1592-01 standard version used to test the product meets the prescribed standards in ASTM E 1592-05 standard version adopted by the Florida Building Code 8th Edition (2023) for use as evaluated in this report.
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).
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:	• Diaphragm and axial load capacity is outside the scope of this evaluation. • <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:

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

Roof Panel Clips:

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

Corrosion Resistance:

Fastener:

Type:	Flange-Head Self-Drilling Sheet Metal Screw
Size :	1/4" - 14 x 7/8"
Corrosion Resistance:	Per FBC Section 1506.6 and 1507.4.4
Standard:	Per FBC 1507.4.4 and SAE J78-1979

Installation:

Installation Method:

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

- Clip/Purlin Spacing: **Refer to "TABLE A" Below**
- Two (2) fasteners per Clip (at each purlin intersection)
- Rib Interlock: Mechanically Seamed 90° (SINGLE-LOCK)
- Minimum fastener penetration thru bottom of supports, 3/4".

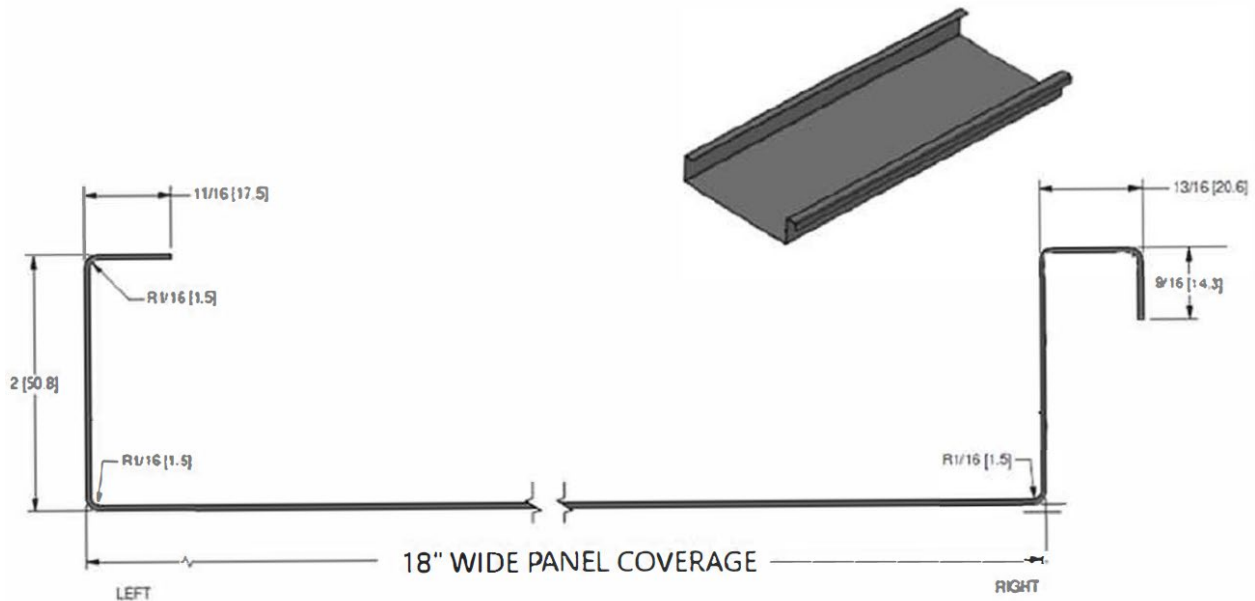
TABLE "A" CMP S2500, 24 GA. 18" Wide ATTACHED TO 16 GA. STEEL PURLINS ALLOWABLE LOADS			
	METHOD 1:	METHOD 2:	METHOD 2:
Design Pressure:	- 20.8 PSF	- 49.4 PSF	- 67.6 PSF
Panel Width:	18"	18"	18"
# of Fasteners per Clip:	2	2	2
Panel Seam:	90°	90°	90°
Clip/Purlin Spacing:	72"	48"	24"
Span Condition:	3 or more	3 or more	3 or more
Notes: • Allowable design pressure(s) for allowable stress design (ASD). • Fastener Attachment to Steel Supports May Be Designed By A Qualified Design Professional As Required By The Florida Building Code For Site Specific Projects. • Diaphragm and axial load capacity are not included in this evaluation.			

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.

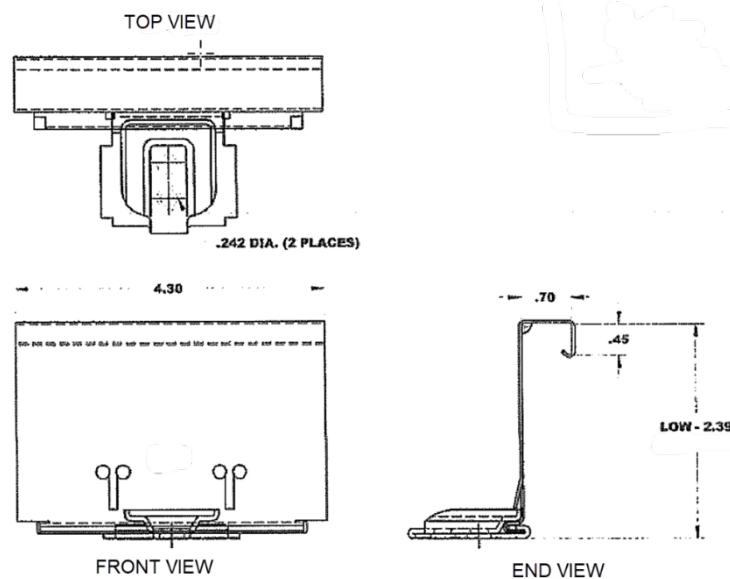
Referenced Data:

1. ASTM E 1592-01 Uplift Test
By Cerny & Ivey Engineers, Inc. (FBC Organization ID# TST 3850)
Report # 22299-1, Date: 11/11/02
Report # 22299-2, Date: 11/11/02
2. ASTM E 1592-05 Uplift Test
By Farabaugh Engineering & Testing, Inc. (FBC Organization ID# QUA 7733)
Report # T336-25, Report Date: 11/18/25
3. Quality Assurance
Farabaugh Engineering & Testing, Inc. (FBC Organization ID# QUA 7733)
Construction Metal Products (CMP)
4. Equivalency of Test Standard Certification
By James L. Buckner, P.E. @ CBUCK Engineering
5. Authorization to Use Engineering Data
6. 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) 18" wide Roof Panel attached to Steel Purlins

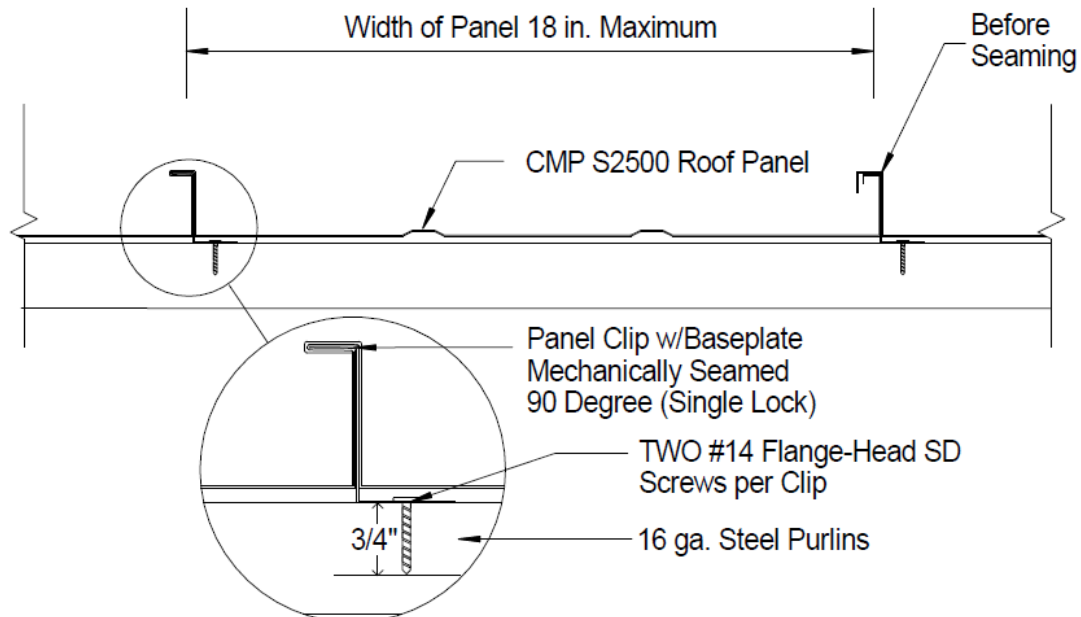


Panel Profile

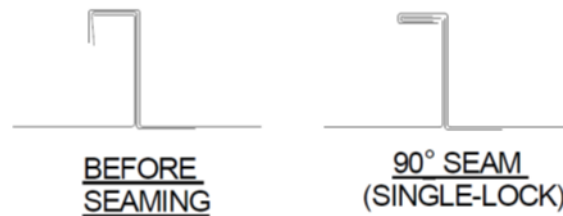


Panel Clip Profile "Floating Clip" (2 Piece Floating Clip)

Installation Method Gibraltar, Metal Building Envelope "CMP S2500" (24 gauge Steel) 18" wide Roof Panel attached to Steel Purlins



**Typical Panel Assembly
Section View**



Typical Panel Seams

TABLE "A"			
CMP S2500, 24 GA. 18" wide ATTACHED TO 16 GA. STEEL PURLINS			
ALLOWABLE LOADS			
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