

Evaluation Report "Englert® Series 2000" Metal Roof Assembly

Manufacturer:

Englert, Inc.

1200 Amboy Avenue
Perth Amboy, NJ 08862
(732) 826-8614

for

Florida Product Approval

FL 11751.8 R10

Florida Building Code 9th Edition (2026)

(HVHZ)

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "Series 2000" Roof Panel

Material: Steel

Panel Thickness: 24 gauge

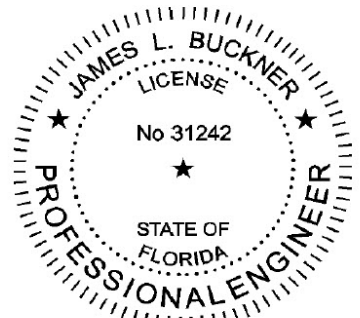
Panel Seam: Snap-Lock

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. 26-805-S2000-S4S-HZ-ER
(Revises 25-769-S2000-S4S-HZ-ER, FL11751.8 R9)
Date: 08/06/2026



James L. Buckner, P.E.
FL31242

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

Contents:

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

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Manufacturer:	Englert, Inc. 1200 Amboy Avenue Perth Amboy, NJ 08862 (732) 826-8614 http://www.englertinc.com/
Product Name:	"Series 2000"
Product Category:	Roofing
Product Sub-Category	Metal Roofing
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product/System Description:	"Series 2000" Roof Panel 24 gauge steel Snap-Lock roof panel mechanically attached to Steel Deck with fixed 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 (Optional)
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: 40 ksi minimum
Slope:	Minimum slope shall be: 2:12 (Non-HVHZ) Per FBC 1507.4.2 2:12 (HVHZ) Per FBC 1515 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" attachment details herein) METHOD 1: - 60 PSF METHOD 2: - 144 PSF

Performance Standards:

The product described herein has demonstrated compliance with:

- TAS 125-03 – *Standard Requirements for Metal Roofing Systems*
- TAS 100-23 – *Wind Driven Rain Test*

Standards Equivalency:

The TAS 100-95 standard version used to test the evaluated product assembly is equivalent with the prescribed standards in TAS 100-23 adopted by the Florida Building Code 9th Edition (2026) 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 9th Edition (2026)

Florida Building Code 9th Edition (2026), HVHZ

Evaluation Report Scope:

This building envelope product is evaluated for compliance with the structural requirements of the Florida Building Code, per the scope sections of 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.
- 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.
- 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.
- 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.

**Limitations and
Conditions of Use
Cont'd:**

- 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: Englert Series 2000
Material: Steel
Thickness: 24 gauge (min.)
Panel Widths: 14" (max.) Or 18" (max.) Coverage
Rib Height: 1-3/4"
Yield Strength: 40 ksi min.
Corrosion Resistance: Per FBC Section 1507.4.3

Roof Panel Clips:

Product Name: Englert "Series 2000 Clip"
Englert Part #: 05076B
Type: One-piece, fixed clip
Material: Galvanized Steel
Thickness: 24 gauge
Yield Strength: 40 ksi min.
Dimensions: 1-3/4" (tall) x 3-1/2" (long) x 2-1/2" (wide)
Corrosion Resistance: Per FBC Section 1506.7

Bearing Plate:

Material: Galvanized Steel or Stainless Steel
Thickness: 18 gauge
Yield Strength: 40 ksi min.

Fastener:

Type: Truss-Head Self-Drilling Screw
Size : #14 x 6"
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.4
Standard: Per SAE J78-1979

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

Underlayment:

Non-HVHZ:

One of the following per FBC 9th Edition (2026), 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 9th Edition (2026), 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.

Barrier Board:

Any approved barrier with current approval.

(Fire classification is outside the scope of this evaluation. Refer to current fire listings for installation of fire barrier & fire rating of this system.)

Installation:

Installation Method:

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

- Clip Spacing: **Refer to "TABLE A" Below**
(along the length of the panel)
- Two (2) fasteners per Clip
- Rib Interlock: Snap-Lock
(Panel ribs shall be fully engaged to form an integral snap-lock.)
- Minimum fastener penetration thru bottom of support, 3/4".
- For panel construction at the end of panels, refer to manufacturer's instructions and any site specific design.

TABLE "A" ALLOWABLE LOADS		
"Series 2000" (24 ga. Steel) Roof Panel attached to Steel Deck		
	METHOD 1	METHOD 2
Design Pressure:	- 60 PSF	- 144.25 PSF
Panel Width:	18"	14"
Clip Spacing:	18"	8"
# of Fasteners per Clip:	2	2
Notes:		
• Allowable design pressure(s) for allowable stress design (ASD).		

Install the "Series 2000" roof panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 9th Edition (2026). 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:

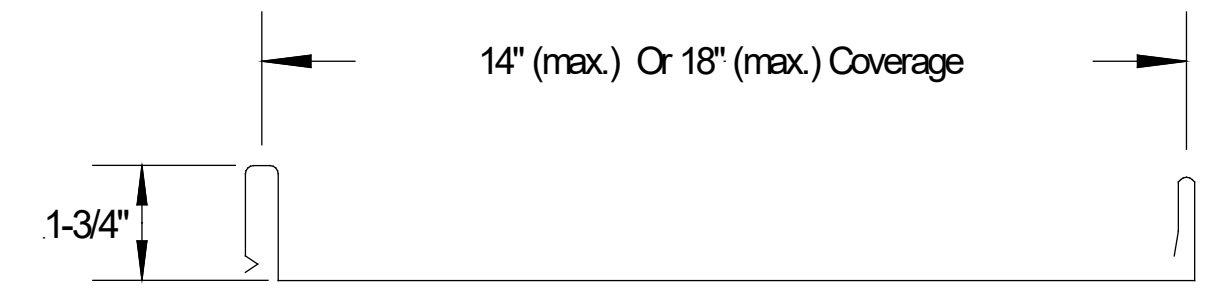
1. TAS 125 Uplift Test
By Hurricane Test Laboratory, LLC (FBC Organization ID# TST 1527)
Report No. 0155-0213-05 (14") Date: 6/20/06
2. TAS 125 & UL580 Uplift Test
By Architectural Testing, Inc. (FBC Organization ID# TST 1558)
Report No. 01-48082.01 Date: 1/19/04
3. TAS 100-95 Wind Driven Rain Test
By Architectural Testing, Inc.
Report No. 01-32796.01, Report Date: 11/03/1998
4. UL580/1897 Uplift Test
By UL, LLC (FBC Organization #: CER 9626)
Report No. 91NK26936 Date: 10/1992, Const. #359, 359A
5. Quality Assurance
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)
Englert, Inc. Licensee #420
6. Engineering Analysis
By James L. Buckner, P.E. @ CBLUE Engineering
7. Equivalency of Test Standard Certification
By James L. Buckner, P.E. @ CBLUE Engineering
8. Certification of Independence
By James L. Buckner, P.E. @ CBLUE Engineering

Installation Method

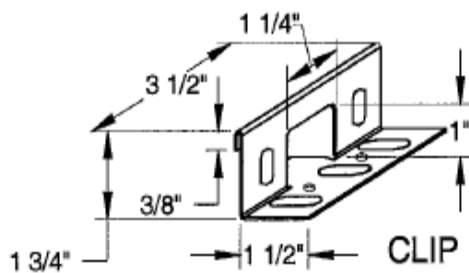
Englert, Inc.

“Series 2000” (24 gauge Steel) Roof Panel attached to Steel Deck

Drawings

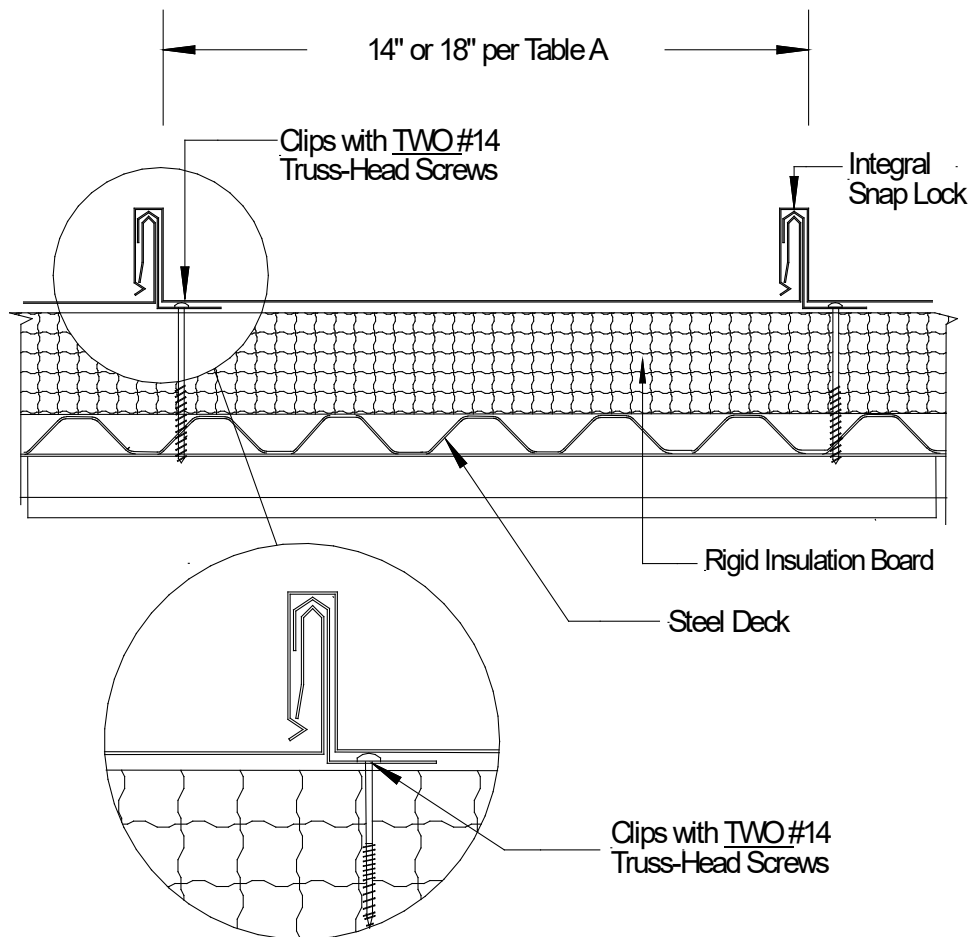


Typical Panel Profile



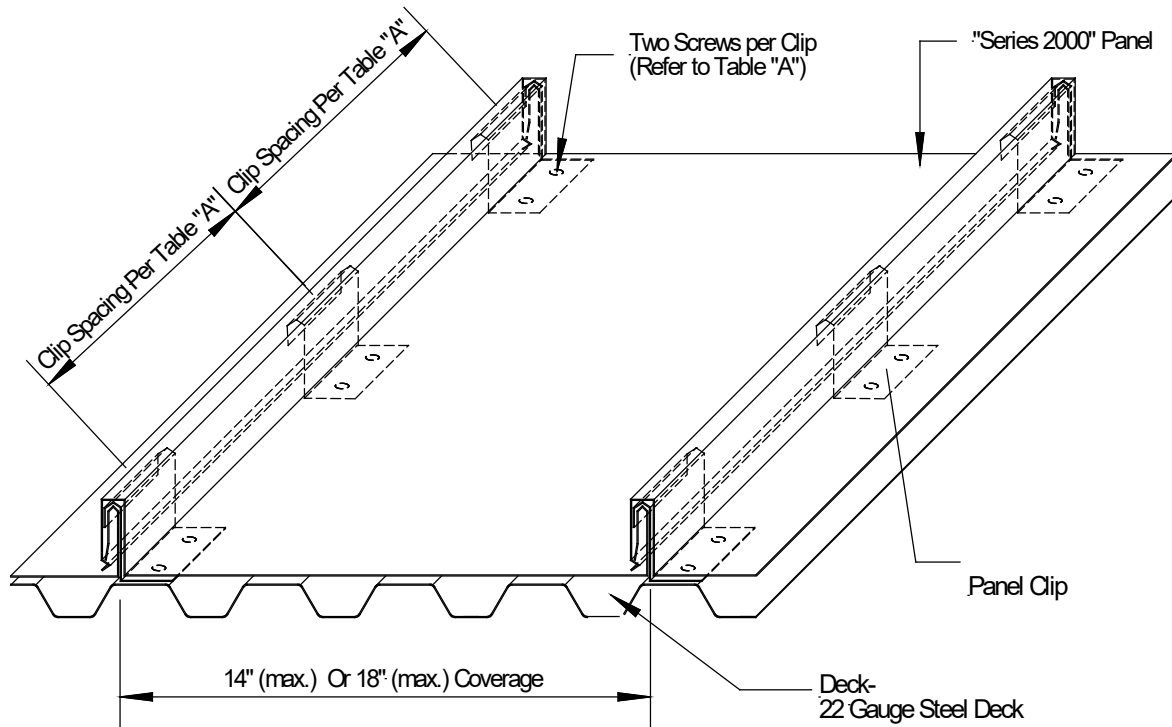
Panel Clip Profile
Englert “Series 2000 Clip”
(Part # 05076B)

Installation Method
Englert, Inc.
"Series 2000" (24 gauge Steel) Roof Panel attached to Steel Deck



Typical Assembly Profile View
(Typical Fastening Pattern Across Width)

Installation Method Englert, Inc. "Series 2000" (24 gauge Steel) Roof Panel attached to Steel Deck



Typical Roof Assembly Isometric View

(Optional) Rigid Insulation Board per Page 4 of this report

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