

## Evaluation Report "Englert® Series 2500" Metal Roof Assembly

### Manufacturer:

**Englert, Inc.**

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

*for*

### Florida Product Approval

**# FL 11752.2 R6**

Florida Building Code 9th Edition (2026)

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "Series 2500" Roof Panel

Material: Steel

Panel Thickness: 24 gauge

Panel Width: 16" or 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.

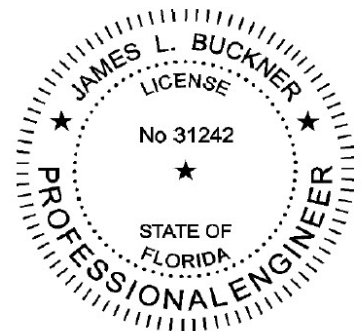
### Prepared by:

James L. Buckner, P.E., SECB  
Florida Professional Engineer # 31242  
Florida Evaluation ANE ID: 1916  
Project Manager: Diana Galloway  
Report No. 26-805-S2500-S4S-ER  
(Revises 23-555-S2500-S4S-ER, FL11752.2 R5)  
Date: 08/06/2026

### Contents:

Evaluation Report

Pages 1 – 9



James L. Buckner, P.E.  
FL31242

A handwritten signature in black ink, appearing to read "James L. Buckner", written over the printed name and license number.

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CBUCK, Inc. dba CBUCK Engineering

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|                                |                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:                  | Englert, Inc.<br>1200 Amboy Avenue<br>Perth Amboy, NJ 08862<br>(732) 826-8614<br><a href="http://www.englertinc.com/">http://www.englertinc.com/</a>                                                                                                                 |
| Product Name:                  | "Series 2500"                                                                                                                                                                                                                                                        |
| Product Category:              | Roofing                                                                                                                                                                                                                                                              |
| Product Sub-Category           | Metal Roofing                                                                                                                                                                                                                                                        |
| Compliance Method:             | State Product Approval Rule 61G20-3.005 (1) (d)                                                                                                                                                                                                                      |
| Product/System Description:    | "Series 2500" Roof Panel<br>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:<br><ol style="list-style-type: none"><li>1. Roof Panel</li><li>2. Panel Clip</li><li>3. Fasteners</li><li>4. Underlayment</li><li>5. Insulation (Optional)</li></ol>           |
| Support:                       | Type:<br>Steel Deck<br>(Design of support and its attachment to support framing is outside the scope of this evaluation.)<br><br>Description: <ul style="list-style-type: none"><li>• Thickness: 22 gauge minimum</li><li>• Yield strength: 33 ksi minimum</li></ul> |
| Slope:                         | Minimum slope shall be: 1/2 : 12 or greater<br>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:<br/>(Refer to "Table A" attachment details herein)</li></ul> <p>Refer to Table "A"</p>                                                                                       |

**Performance Standards:**

The product described herein has demonstrated compliance with:

- TAS 125-03 – *Standard Requirements for Metal Roofing Systems*
- ASTM E 1592-05(2017) – *Test Method for Structural Performance of Sheet Metal Roof and Siding Systems By Uniform Static Air Pressure Difference*

**Standards Equivalency:**

The ASTM E 1592-01 standard version used to test the evaluated product assembly is equivalent with the prescribed standards in ASTM E 1592-05(2017) 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)**

**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".

- 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.
- Deck shall be in compliance with applicable building code.
- All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of FBC, including but not limited to Sections 1506.5, 1506.6, 1506.7 and 1507.4.4. Installations located within 3000 feet of a saltwater coastline shall comply with Section 1711 in accordance with authorities having jurisdiction.
- Metal roof and hip ridge covers is outside the scope of this evaluation and shall comply with FBC Section 1504.3.1.1.
- 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)

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).

|                                                    |                                                                                                             |                                                                            |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Components/Materials<br/>(by Manufacturer):</b> | <b>Roof Panel:</b>                                                                                          | Englert Series 2500                                                        |
|                                                    | Material:                                                                                                   | Steel                                                                      |
|                                                    | Thickness:                                                                                                  | 24 gauge (min.)                                                            |
|                                                    | Panel Widths:                                                                                               | 16" (max.) or 18" (max.) Coverage                                          |
|                                                    | Rib Height:                                                                                                 | 2"                                                                         |
|                                                    | Yield Strength:                                                                                             | 40 ksi min.                                                                |
|                                                    | Corrosion Resistance:                                                                                       | Per FBC Section 1507.4.3                                                   |
|                                                    | <b>Roof Panel Clips:</b>                                                                                    |                                                                            |
|                                                    | Product Name:                                                                                               | Englert "Series 2500 Floating Clip"                                        |
|                                                    | Englert Part #:                                                                                             | Clip Top: 05082H<br>Clip Base: 05082I                                      |
|                                                    | Type:                                                                                                       | Two-piece, floating clip                                                   |
|                                                    | Material:                                                                                                   | Galvanized Steel                                                           |
|                                                    | Thickness:                                                                                                  | Clip Top: 24 Gauge Stainless Steel<br>Clip Base: 18 Gauge Galvanized Steel |
|                                                    | Yield Strength:                                                                                             | 40 ksi min.                                                                |
|                                                    | Dimensions:                                                                                                 | Clip Top: 2-1/4" x 6"<br>Clip Base: 1-1/4" x 3-5/8"                        |
| Corrosion Resistance:                              | Per FBC Section 1506.7                                                                                      |                                                                            |
| <b>Fastener:</b>                                   |                                                                                                             |                                                                            |
| Type:                                              | Truss-Head Self-Drilling Screw                                                                              |                                                                            |
| Size :                                             | #14                                                                                                         |                                                                            |
| Corrosion Resistance:                              | Per FBC Section 1506.6 and 1507.4.4                                                                         |                                                                            |
| Standard:                                          | Per SAE J78-1979                                                                                            |                                                                            |
| <b>Seam Adhesive/Sealant:</b>                      |                                                                                                             |                                                                            |
| Product Name:                                      | Bostik 915                                                                                                  |                                                                            |
| Type:                                              | One component, polyurethane adhesive                                                                        |                                                                            |
| Application Size:                                  | 3/8" continuous bead                                                                                        |                                                                            |
| Application Location:                              | along male flange the full length of panel<br>(Design of adhesive is outside the scope of this evaluation.) |                                                                            |

|                                                       |                                                                                                                                                               |                        |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Components&amp;<br/>Materials:<br/>(by Others)</b> | <b>Underlayment:</b>                                                                                                                                          |                        |
|                                                       | 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 (Optional):                                                                                                                                        |                        |
|                                                       | Type:                                                                                                                                                         | Rigid Insulation Board |
|                                                       | Thickness:                                                                                                                                                    | 3" (max.)              |
| Properties:                                           |                                                                                                                                                               |                        |
| Density:                                              | 2.25 pcf (lbs/ft <sup>3</sup> ) min.                                                                                                                          |                        |
| Or Compressive Strength:                              | 20 psi min.                                                                                                                                                   |                        |

Insulation Notes:

- Rigid Insulation shall meet minimum density OR compressive strength.
- Insulation shall comply with FBC Section 1508. When insulation is incorporated, fastener length shall conform to penetrate thru bottom of support a minimum of 3/16".

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 180° (DOUBLE-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"                                                             |             |              |                         |            |                |                 |
|-----------------------------------------------------------------------|-------------|--------------|-------------------------|------------|----------------|-----------------|
| "Series 2500" (24 gauge Steel) Roof Panel attached to Steel Deck      |             |              |                         |            |                |                 |
| ALLOWABLE LOADS                                                       |             |              |                         |            |                |                 |
|                                                                       | Panel Width | Clip Spacing | # of Fasteners per Clip | Panel Seam | Panel Adhesive | Design Pressure |
| 1                                                                     | 16"         | 60"          | 2                       | 180°       | No             | - 47 PSF        |
| 2                                                                     | 16"         | 30"          | 2                       | 180°       | No             | - 78 PSF        |
| 3                                                                     | 16"         | 8"           | 2                       | 180°       | No             | - 118 PSF       |
| 4                                                                     | 16"         | 8"           | 2                       | 180°       | Yes            | - 153.5 PSF     |
| 5                                                                     | 18"         | 60"          | 2                       | 180°       | No             | - 42 PSF        |
| 6                                                                     | 18"         | 30"          | 2                       | 180°       | No             | - 62 PSF        |
| Note: Allowable design pressure(s) for allowable stress design (ASD). |             |              |                         |            |                |                 |

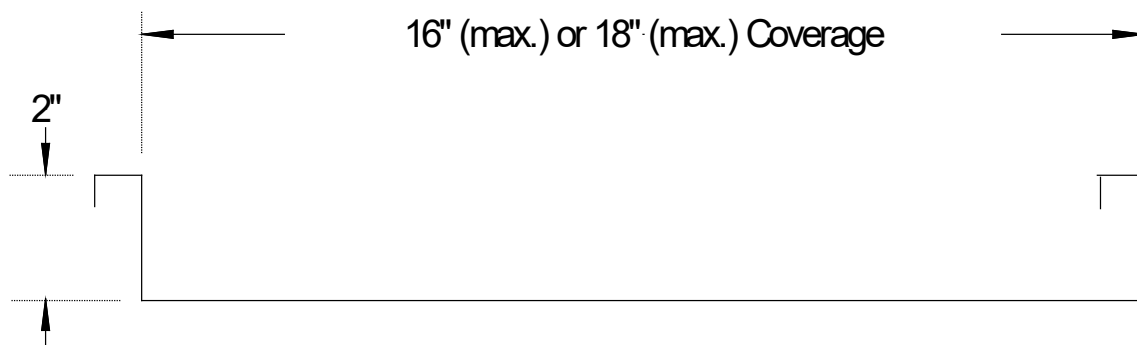
Install the "Series 2500" roof panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 9th Edition (2026). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

**Referenced Data:**

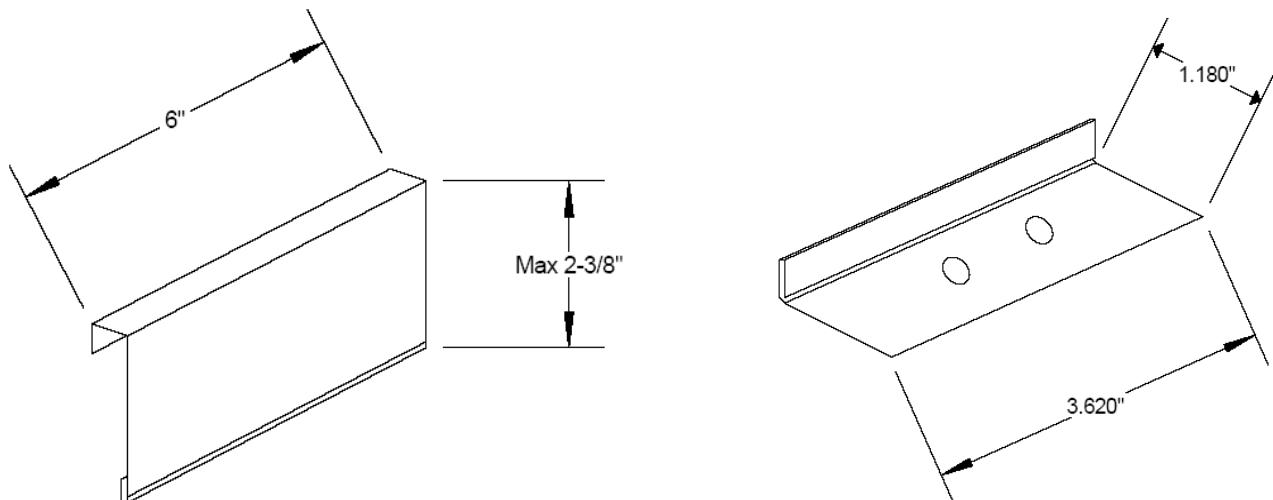
1. TAS 125 Uplift Test  
By Hurricane Test Laboratory, LLC (FBC Organization ID# TST 1527)  
Report #0155-0903-06, Date: 10/2/06
2. ASTM E 1592 Uplift Test  
By ENCON Consultants, Inc. (FBC Organization ID# TST 6485)  
Project No. C969 Date: 1/29/01
3. ASTM E 1592 Uplift Test  
By ENCON Consultants, Inc. (FBC Organization ID# TST 6485)  
Project No. C969 Date: 10/05/00
4. TAS 125 Uplift Test  
By Intertek Building & Construction  
Report # M4630.01-109-18-r0, Sp #1, Date: 8/20/21 (#4)
5. Quality Assurance  
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)  
Englert, Inc. Licensee #420
6. Equivalency of Test Standard Certification  
By James L. Buckner, P.E. @ CBLUE Engineering
7. Certification of Independence  
By James L. Buckner, P.E. @ CBLUE Engineering
8. Engineering Analysis  
By CBLUE Engineering

**Installation Method**  
**Englert, Inc.**  
**"Series 2500" (24 gauge Steel) Roof Panel attached to Steel Deck**

**Drawings**



**Typical Panel Profile**

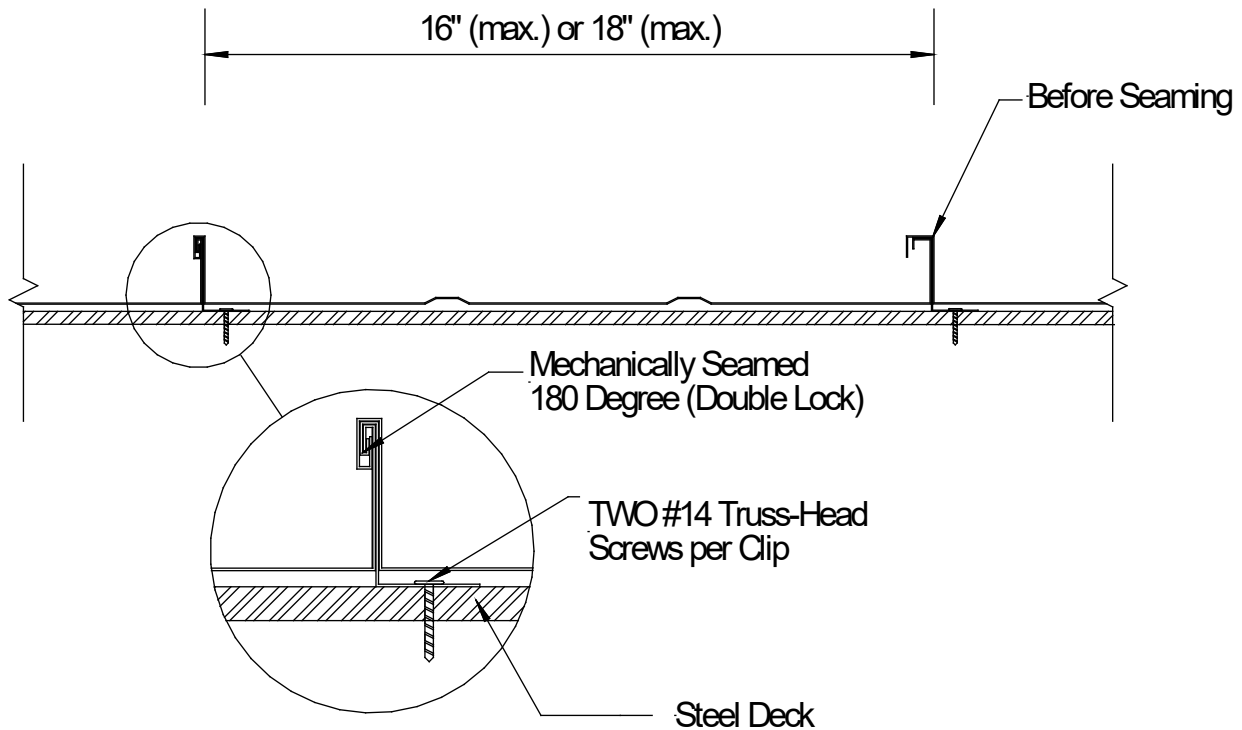


**Panel Clip Profile**  
**Englert "Series 2500 Floating Clip" (Top & Base)**  
**(Part # 05082H & 05082I)**

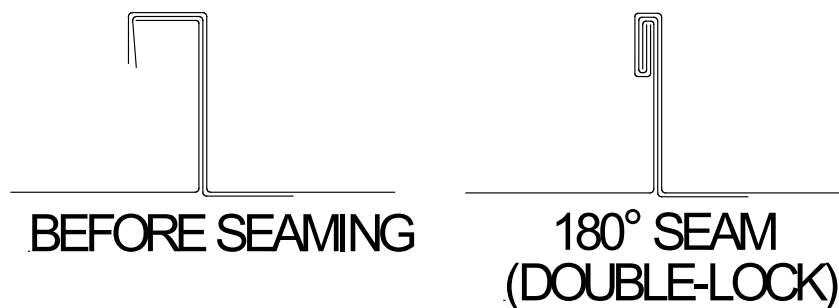
## Installation Method

Englert, Inc.

**"Series 2500" (24 gauge Steel) Roof Panel attached to Steel Deck**

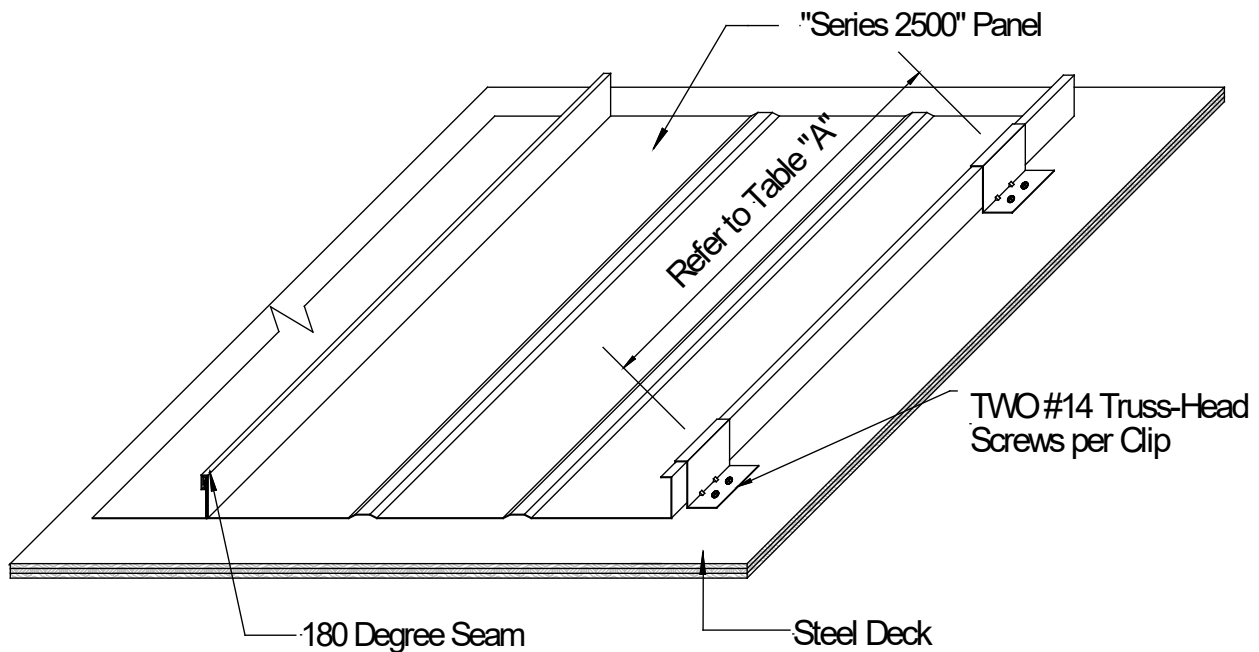


## Typical Assembly Profile View (Typical Fastening Pattern Across Width)



## Typical Panel Seams

## Installation Method Englert, Inc. "Series 2500" (24 gauge Steel) Roof Panel attached to Steel Deck



### Typical Roof Assembly Isometric View

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

| TABLE "A"                                                        |             |              |                         |            |                |                 |
|------------------------------------------------------------------|-------------|--------------|-------------------------|------------|----------------|-----------------|
| "Series 2500" (24 gauge Steel) Roof Panel attached to Steel Deck |             |              |                         |            |                |                 |
| ALLOWABLE LOADS                                                  |             |              |                         |            |                |                 |
|                                                                  | Panel Width | Clip Spacing | # of Fasteners per Clip | Panel Seam | Panel Adhesive | Design Pressure |
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