

Evaluation Report "Englert® Series 1300" Metal Roof Assembly

Manufacturer:

Englert, Inc.

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

for

Florida Product Approval

FL 11727.4 R19

Florida Building Code 9th Edition (2026)

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "Series 1300" Roof Panel

Material: Steel

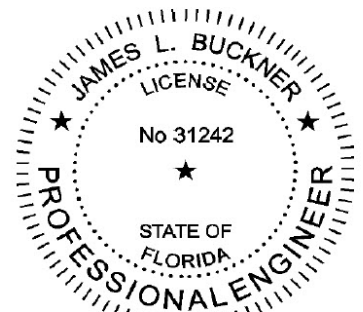
Panel Thickness: 24 gauge

Support: Steel Deck

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-S1300-S4IS-ER
(Revises 25-716-S1300-S4IS-ER, FL11727.4 R18)
Date: 08/06/2026

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.



James L. Buckner, P.E.
FL31242

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

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Evaluation Report

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Manufacturer:	Englert, Inc. 1200 Amboy Avenue Perth Amboy, NJ 08862 (732) 826-8614 http://www.englertinc.com/
Product Name:	"Series 1300"
Product Category:	Roofing
Product Sub-Category	Metal Roofing
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product/System Description:	"Series 1300" Roof Panel 24 gauge (min.) Steel Standing Seam roof panel mechanically attached to insulated 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. Seam Adhesive 5. Insulation (Optional) 6. Cover Board 7. Underlayment
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" details herein) Refer to Table "A"

Performance Standards:	The product described herein has demonstrated compliance with: • TAS 125-03 – <i>Standard Requirements for Metal Roofing Systems</i>
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 building envelope product is evaluated for compliance with the structural wind load 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”. • 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) <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 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:
Material: Englert Series 1300 Steel
Thickness: 24 gauge (min.)
Panel Widths: 20" (max.) Coverage
Rib Height: 1-1/2"
Alloy Type: 40 ksi min.
Corrosion Resistance: Per FBC Section 1507.4.3

Panel Clip #1:

Roof Panel Clips:
Product Name: Englert "Series 1300 Fixed Clip"
Englert Part #'s: 05084D (Galv. Steel) or 05084E (Stainless Steel)
Type: One-piece, fixed clip
Material: Galvanized Steel or Stainless Steel
Thickness: 24 gauge
Yield Strength: 40 ksi min.
Dimensions: 6-1/4" (long) x 1-5/8" (tall) x 1-1/2" (wide)
Corrosion Resistance: Per FBC Section 1506.7

Panel Clip #2:

Product Name: Englert "Series 1300" Fixed Clip"
Englert Part #'s: 05828J (Galv. Steel) or 05828K (Stainless Steel)
Type: One-piece, fixed clip
Material: Galvanized Steel or Stainless Steel
Thickness: 24 gauge
Yield Strength: 40 ksi min.
Dimensions: 3" (long) x 1-5/8" (tall) x 1-1/4" (wide)
Corrosion Resistance: Per FBC Section 1506.7

Fastener:

Type: Pancake-Head Drill Tip Self Tapping Screw
Size: #14 - 13 x 8"
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.4
Standard: Per SAE J78-1979

Adhesive/Seam Sealant:

Product Name: Bostik 70-05A
Type: One component, polyurethane adhesive
Application Size: (1) 1/8" bead
Application Location: In the panel seam

Underlayment:

Product Name: Englert HT Underlayment
Type: Self-Adhered
Standard: ASTM D1970 & ASTM D4798

Underlayment material and application shall be in compliance with FBC Chapter 15 and in accordance with manufacturer's recommendations.

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

Insulation: (Optional)

Type: Rigid Insulation Board
Thickness: 4"- 6" (max.)
Properties:
Density: 2.25 pcf (lbs/ft³) min.
Or Compressive Strength: 20 psi min.

Components & Materials (by Others) (Cont.)

- 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 3/4".

Cover Board:

Cover Board: Dens Deck or Any Approved Board,
Thickness: up to 1/4" thick

Installation:

Installation Method:

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

- Clip Spacing: Refer to "TABLE A" Below
(along the length of the panel)
- Rib Interlock: Refer to "TABLE A" Below
(Panel ribs shall be mechanically seamed per below.)
- 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"							
ENGLERT S1300, 24 ga. Steel attached to Steel Deck							
ALLOWABLE LOADS							
Panel Width (max.)	Deck Thickness (min.)	Panel Clip Type	Clip Spacing (max.)	# of Fasteners per Clip	Seam Adhesive	Panel Seam (min.)	Design Pressure (ASD)
20"	22 ga.	3" Fixed	12"	2	NO	90°	-71.25 PSF
20"	22 ga.	6" Fixed	12"	4	YES	90°	-135 PSF
Notes:							
• Allowable design pressure(s) for allowable stress design (ASD).							

Install the "Series 1300" 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:

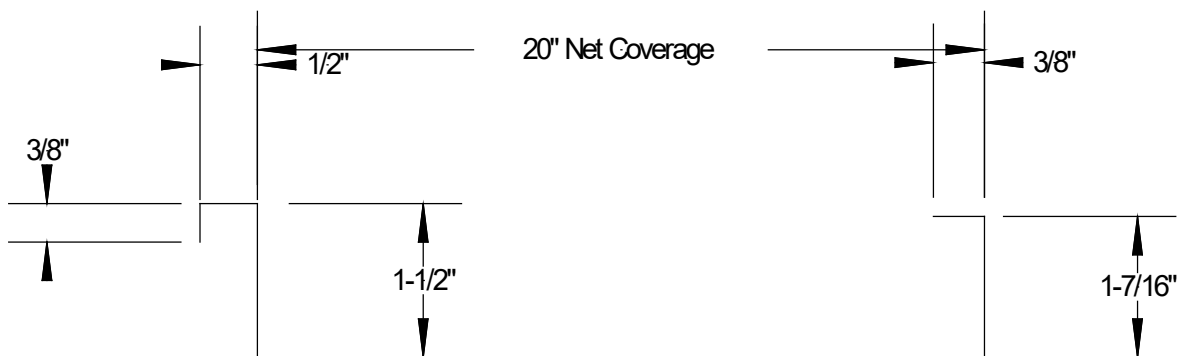
1. TAS 125-03/UL580 Uplift Test
By Architectural Testing, Inc. (FBC Organization ID# TST 1558)
Report No. F1490.01-109-18, Specimen #1-3, Date: 12/15/15
2. Quality Assurance
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)
Englert, Inc. Licensee #420
3. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering (FBC Organization#ANE 1916)

Installation Method

Englert, Inc.

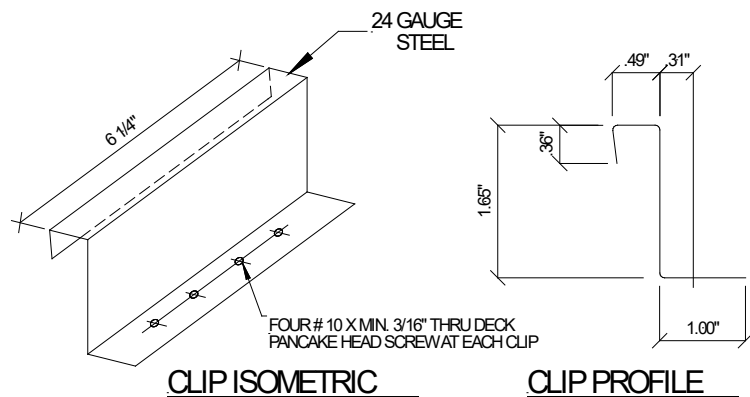
"Series 1300" (24 gauge Steel) Roof Panel attached to Steel Deck

Drawings

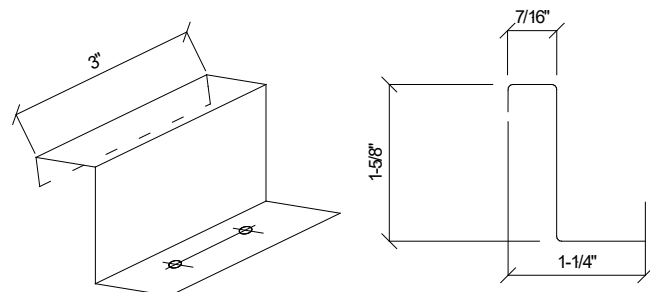


Panel Profile

Panel Clip #1
Englert "Series 1300
Fixed Clip"
(Part #05084D – Galvanized)
(Part #05084E – Stainless Steel)



Panel Clip #2
Englert "Series 1300
3" Fixed Clip"
(Part #05828J – Galvanized) or
(Part #05828K – Stainless Steel)

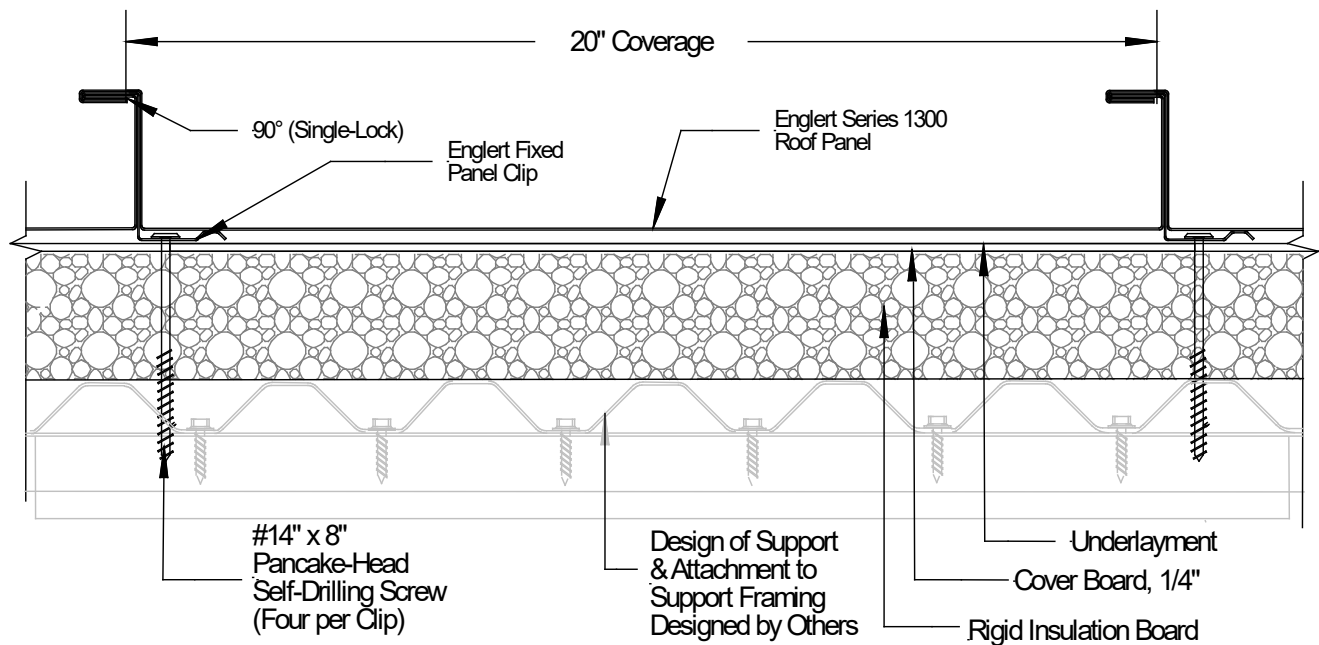


Series 1300 Panel Clips

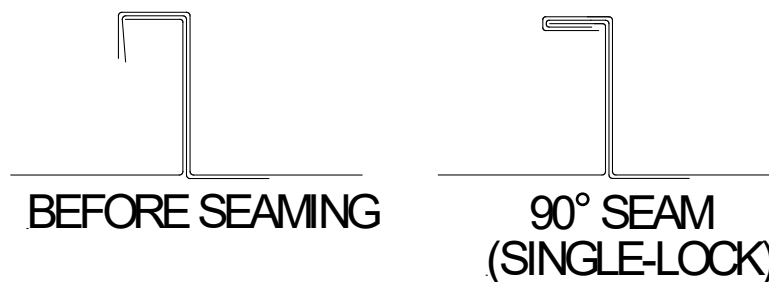
Installation Method

Englert, Inc.

"Series 1300" (24 gauge Steel) Roof Panel attached to Steel Deck



Typical Assembly Profile View (Typical Fastening Pattern Across Width)

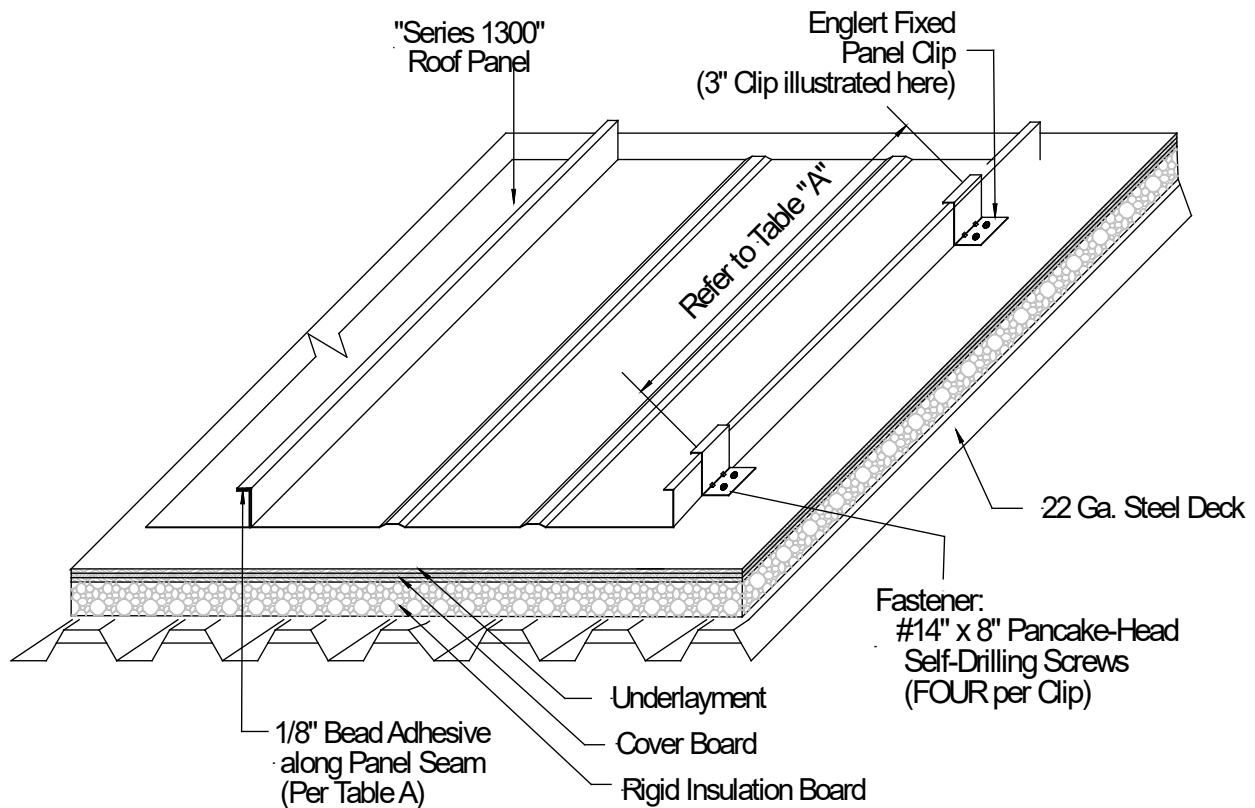


Typical Panel Seam

Installation Method

Englert, Inc.

"Series 1300" (24 gauge Steel) Roof Panel attached to Steel Deck



Typical Roof Assembly Isometric View

TABLE "A"							
ENGLERT S1300, 24 ga. Steel attached to Steel Deck							
ALLOWABLE LOADS							
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20"	22 ga.	6" Fixed	12"	4	YES	90°	-135 PSF