

Evaluation Report "Englert® Series 1500" Metal Roof Assembly

Manufacturer:

Englert, Inc.

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

for

Florida Product Approval

FL 47470.1 R1

Florida Building Code 9th Edition (2026)

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "Series 1500" Roof Panel

Material: Steel

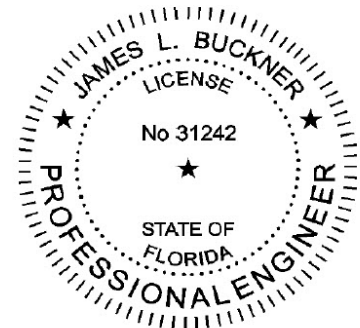
Panel Thickness: 24 gauge

Support: OSB Deck

Prepared by:

James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 26-805-1500-S4O-ER
(Revises Report No. 25-733-1500-S4O-ER, FL 47470.1 R0)
Date: 08/12/2026

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

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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:	Englert, Inc. 1200 Amboy Avenue Perth Amboy, NJ 08862 (732) 826-8614 http://www.englertinc.com/
Product Name:	"Series 1500"
Product Category:	Roofing
Product Sub-Category	Metal Roofing
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product/System Description:	"Series 1500" Roof Panel 24 gauge steel Snap-Lock Standing Seam roof panel mechanically attached to OSB 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 (Optional)
Support:	Type: Wood Structural Panel (in compliance with applicable sections of FBC Sections 2303.1.5 & 2304.8.2) (Design of support system is outside the scope of this evaluation) Description: • 7/16" (nominal) OSB (Oriented Strand Board)
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)

See Table A

Performance Standards:	The product described herein has demonstrated compliance with: • TAS 125-03 – Standard Requirements for Metal Roofing Systems
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:	<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 1500 Steel
Thickness: 24 gauge (min.)
Panel Widths: 15-1/4" (max.) Coverage
Rib Height: 1-1/2"
Yield Strength: 40 ksi min.
Corrosion Resistance: Per FBC Section 1507.4.3

Roof Panel Clips:

Product Name: Englert "Series 1500 Clip"
Englert Part #: SP5999
Type: One-piece clip
Material: Galvanized Steel
Thickness: 18 gauge
Yield Strength: 40 ksi min.
Dimensions: 1-1/2" x 3-1/2"
Corrosion Resistance: Per FBC Section 1506.7

Fastener:

Type: Pancake-Head Screw
Size: #10-12 BB x 1"
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.4
Standard: Per ANSI/ASME B18.6.1

Seam Adhesive/Sealant:

Product Name: Bostik 915
Type: One component, polyurethane adhesive
Application Size: 1/4" bead
Application Location: Along female flange the full length of panel

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

Underlayment:

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/ft³) 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 evaluation report.)

- Clip Spacing: **Refer to "TABLE A" Below**
(along the length of the panel)
- Rib Interlock: Snap-Lock
(Panel ribs shall be fully engaged to form an integral snap-lock.)
- Minimum fastener penetration thru bottom of support, 3/16".
- For panel construction at the end of panels, refer to manufacturer's instructions and any site specific design.

TABLE "A"						
"Series 1500" (24 gauge Steel) Roof Panel attached to OSB Deck						
ALLOWABLE LOADS						
	Panel Width (max.)	Deck Thickness (min.)	Clip Spacing (max.)	# of Fasteners per Clip	Seam Adhesive	Design Pressure
1	15-1/4"	7/16" OSB	12"	2	YES	- 56 PSF
2	15-1/4"	7/16" OSB	6"	2	YES	- 93.50 PSF
Notes: • Allowable design pressure(s) for allowable stress design (ASD).						

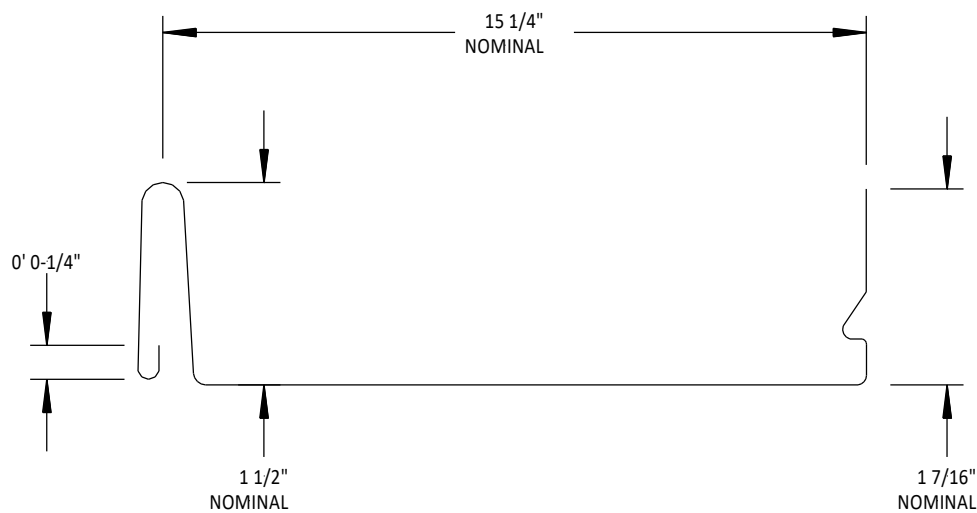
Install the "Series 1500" roof panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 9th Edition (2026). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

Referenced Data:

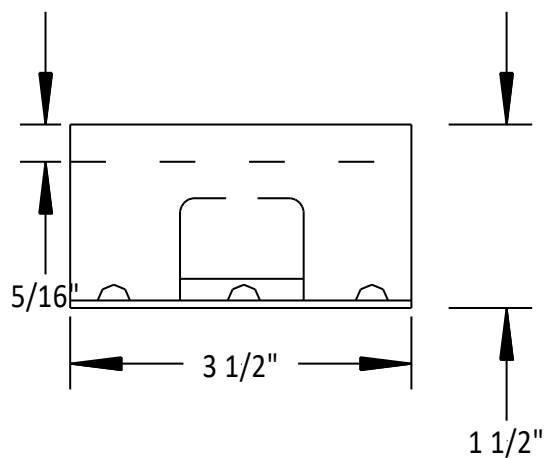
- 1 TAS-125 Uplift Test
By Intertek/Architectural Testing, Inc.(FBC Organization ID# TST 1558)
Report #S2656.01-109-18, Date: 04/02/25
- 2 TAS-125 Uplift Test
By Intertek/Architectural Testing, Inc.(FBC Organization ID# TST 1558)
Report #R9779.01-109-18, Date: 02/06/25
- 3 Quality Assurance
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)
Englert, Inc. Licensee #420
- 4 Certification of Independence
By James L. Buckner, P.E. @ CBLUE Engineering
(FBC Organization # ANE 1916)

Installation Method
Englert, Inc.
"Series 1500" (24 gauge Steel) Roof Panel attached to OSB Deck

Drawings



Panel Profile

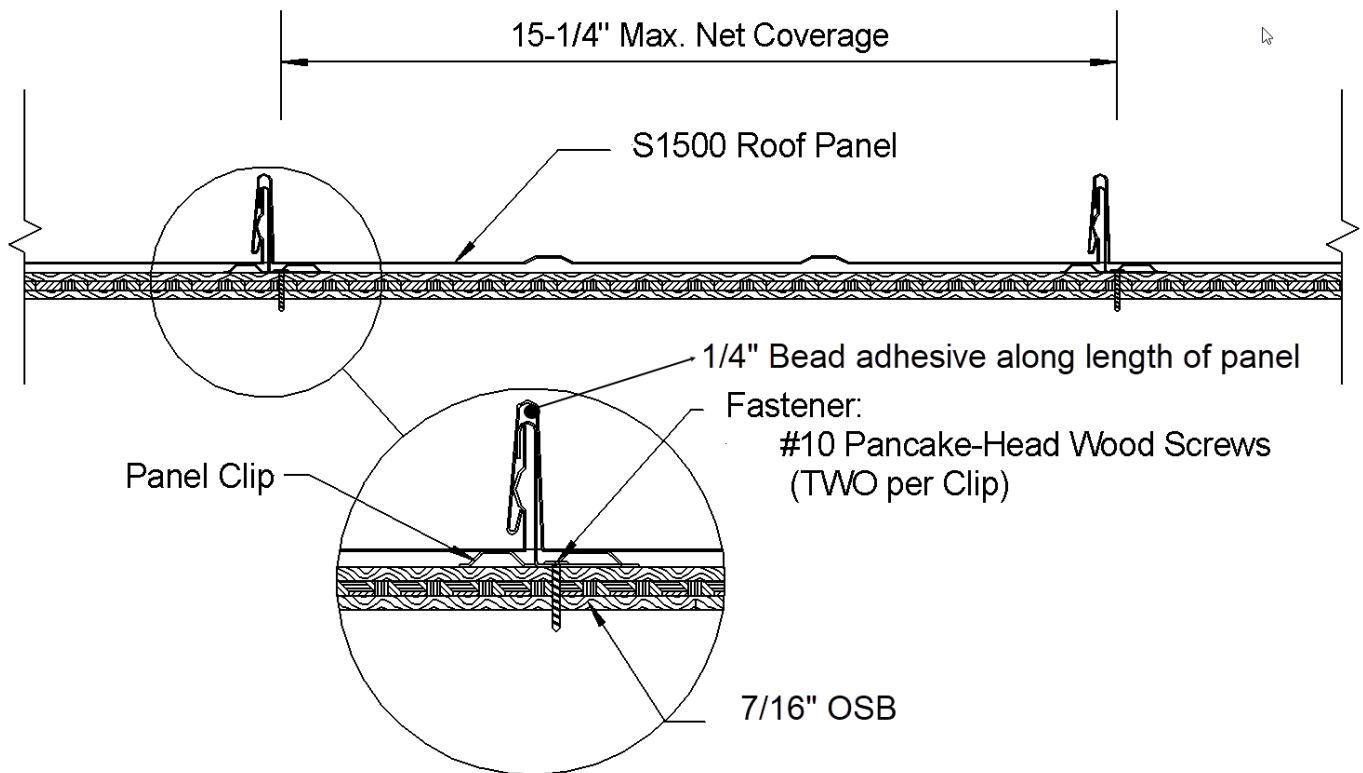


Panel Clip Profile
"Series 1500 Clip"
(Part# SP5999 - 18 ga. galv. Steel)

Installation Method

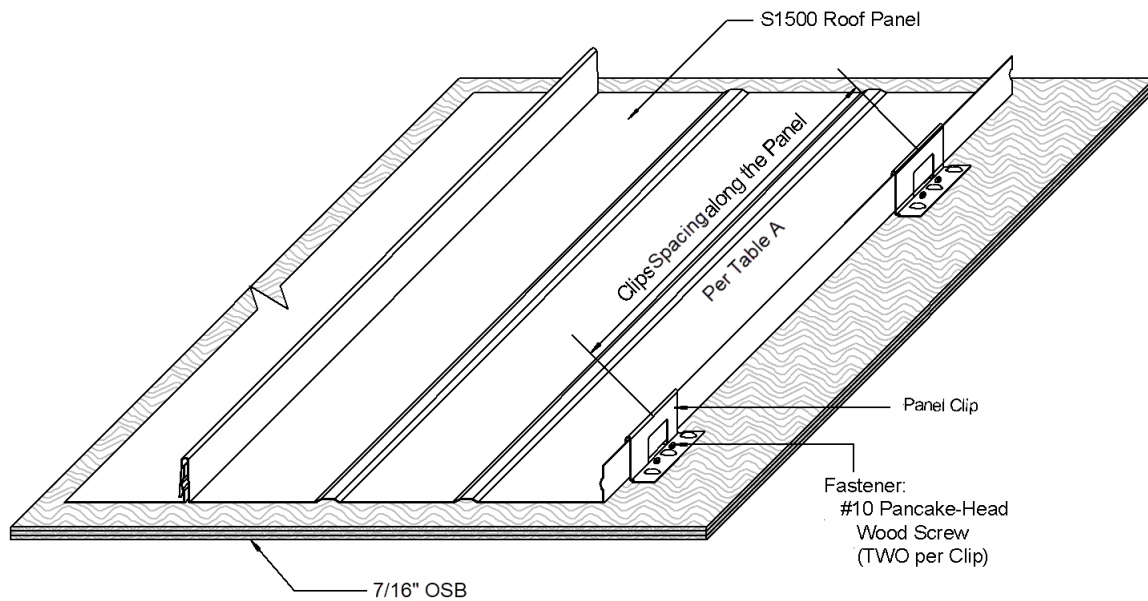
Englert, Inc.

"Series 1500" (24 gauge Steel) Roof Panel attached to OSB Deck



Typical Assembly Profile View
(Typical Fastening Pattern Across Width)

Installation Method
Englert, Inc.
"Series 1500" (24 gauge Steel) Roof Panel attached to OSB Deck



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

TABLE "A"						
"Series 1500" (24 gauge Steel) Roof Panel attached to OSB Deck						
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