

Evaluation Report "Englert® Series T3020" Metal Roof Assembly

Manufacturer:

Englert, Inc.

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

for

Florida Product Approval

FL 48471.2

Florida Building Code 9th Edition (2026)

(HVHZ)

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "Series T3020" Roof Panel

Material: Aluminum

Panel Thickness: 0.040"

Panel Seam: T-Seam

Support: Steel Deck

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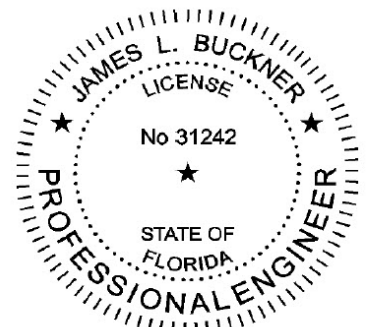
Prepared by:

James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 26-856-S3020-A4S-HZ-ER
(New)
Date: 09/30/2026

Contents:

Evaluation Report

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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 T3020"

Product Category: Roofing

Product Sub-Category: Metal Roofing

Compliance Method: State Product Approval Rule 61G20-3.005 (1) (d)

Product/System Description: "Series T3020" Roof Panel
0.040" Aluminum T-Seam 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 with Seam Cap
2. Panel Clip
3. Fasteners
4. Underlayment

Support: **Type:** Steel Deck
(Design of support and its attachment to support framing is outside the scope of this evaluation.)

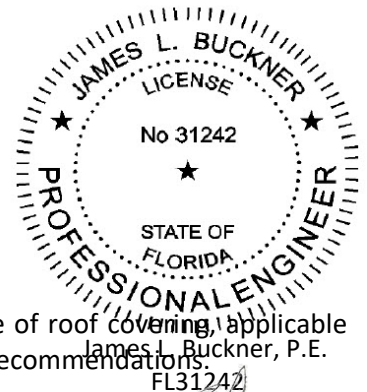
Description:

- Thickness: 22 gauge minimum
- Yield strength: 40 ksi minimum

Slope: Minimum slope shall be:
2:12 (Non-HVHZ) Per FBC 1507.4.2
1:12 (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)

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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*
- ASTM 2140-17 – *Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head*

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.

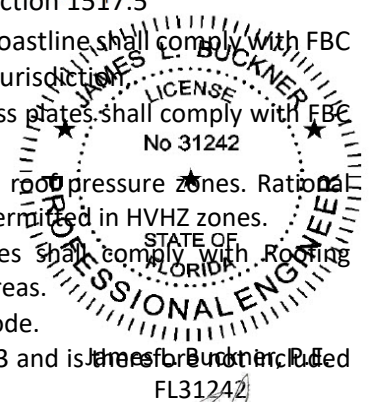
- Fire Classification is outside the scope of Rule 61G20-3 and is not included in this evaluation.

- All panels shall be permanently labeled with the manufacturer's name and/or logo.

- 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)

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

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:
Material: Englert Series T3020
Aluminum
Thickness: 0.040" (min.)
Panel Widths: 16.5" (max.) Coverage
Rib Height: 3-1/4"
Yield Strength: 40 ksi min.
Corrosion Resistance: Per FBC Section 1507.4.3

Panel Seam Cap:

Material: Stainless Steel
Thickness: 24 gauge (min.)
Panel Widths: 16.5" (max.) Coverage
Dimensions: 1-1/4" x 19/32"
Yield Strength: 40 ksi min.
Corrosion Resistance: Per FBC Section 1507.4.3

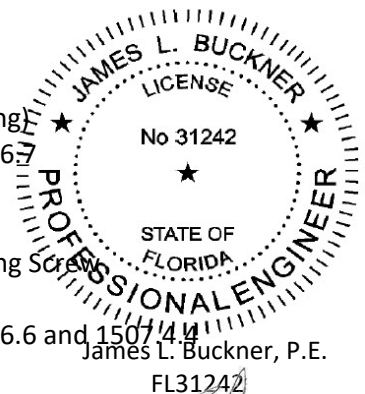
Roof Panel Clips:

Product Name: Englert "Series T3020 Clip"
Type: One-piece, fixed clip
Material: Stainless Steel
Thickness: 24 gauge
Yield Strength: 40 ksi min.
Dimensions: 3-1/4" (tall) x 8" (long)
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.3

Fastener:

Type: Pan-Head Self-Drilling Screw
Size: #12 x 7"
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.3
Standard: Per SAE J78-1979

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

Underlayment:

Non-HVHZ:

Self-adhered underlayment complying with:

One of the following per FBC 9th Edition (2026), Section 1507.1.1.1.

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:

Self-adhered underlayment complying with:

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.

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: T-Seam
(Male leg secured with clip and screws. Female leg clamped over clip with panel seam cap.)
- 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 T3020" (0.040" Alum Roof Panel attached to Steel Deck)			
	METHOD 1	METHOD 2	METHOD 3
Design Pressure:	- 74.75 PSF	- 138.5 PSF	183.5 PSF
Clip Spacing:	60"	24"	
# Fasteners per Clip:	2	2	
Notes:	• Allowable design pressure(s) for allowable stress design (ASD)		

Install the "Series T3020" 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.

James L. Buckner, P.E.

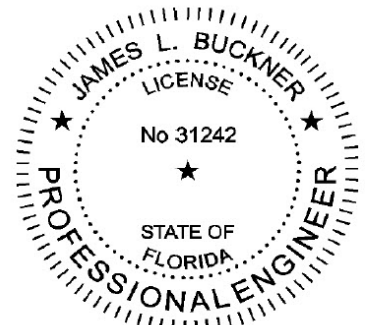
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Referenced Data:

1. TAS 125 Uplift Test
By Intertek Testing Services
Report No. S8919.04-450-18 R2 Rev. Date: 7/30/26
2. TAS 100-23 Wind Driven Rain Test
By Intertek Testing Services
Report No. S8918.01-450-44 R0t Date: 5/12/26
3. ASTM E 2140-17 Water Penetration Test
By Intertek Testing Services
Report No. S8918.01-450-44 R0, Date: 5/12/26
4. Quality Assurance
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)
Englert, Inc. Licensee #420
5. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering

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FL31242

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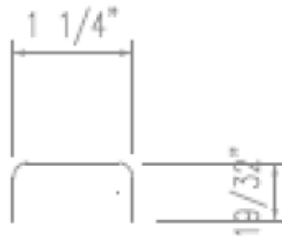
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Installation Method Englert, Inc. "Series T3020" (24 gauge Steel) Roof Panel attached to Steel Deck

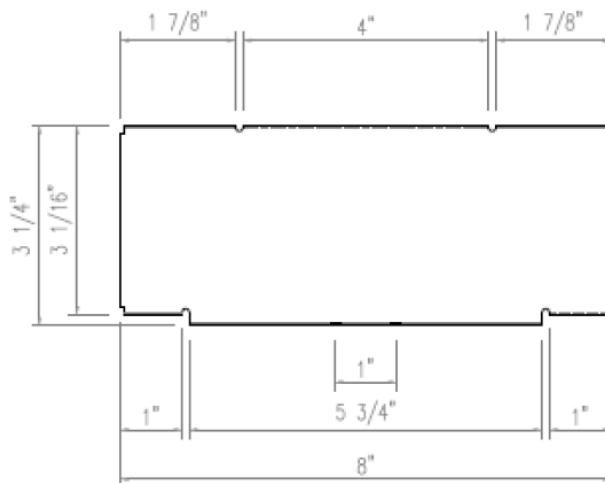
Drawings



Typical Panel Profile



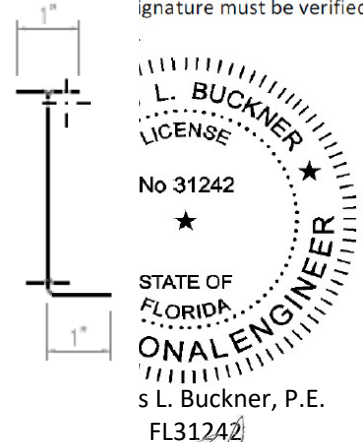
Panel Seam Cap (24 ga. Galvanized Steel or Stainless Steel)



Panel Clip Profile

Englert "Series T3020 Clip" (24 ga. Galvanized Steel or Stainless Steel)

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