

## 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 11727.2 R19**

**Florida Building Code 9th Edition (2026)**

**Method: 1 - D**

**Category: Roofing**

**Sub - Category: Metal Roofing**

**Product:** "Series 1300" Roof Panel

**Material:** Aluminum

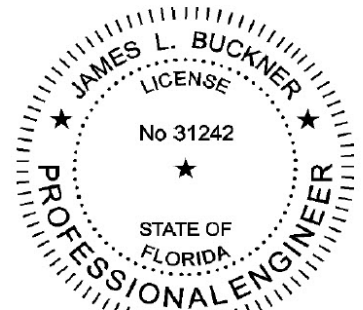
**Panel Thickness:** 0.032 "

**Support:** Wood 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-A3W-ER  
(Revises 25-716-S1300-A3W-ER, FL11727.2 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".

**Contents:**

Evaluation Report

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**CBUCK, Inc. dba CBUCK Engineering**

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Business: 1374 Community Dr., Jupiter, FL 33458

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|                                |                                                                                                                                                                                                                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:                  | <b>Englert, Inc.</b><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:                  | <b>"Series 1300"</b>                                                                                                                                                                                                                                                                                                    |
| Product Category:              | Roofing                                                                                                                                                                                                                                                                                                                 |
| Product Sub-Category           | Metal Roofing                                                                                                                                                                                                                                                                                                           |
| Compliance Method:             | State Product Approval Rule 61G20-3.005 (1) (d)                                                                                                                                                                                                                                                                         |
| Product/System Description:    | <b>"Series 1300" Roof Panel</b><br>0.032" Aluminum Standing Seam roof panel mechanically attached to Wood Deck with panel clips & screws.                                                                                                                                                                               |
| Product Assembly as Evaluated: | Refer to Page 4 of this report for product assembly components/materials & standards:<br><br><ol style="list-style-type: none"><li>1. Roof Panel</li><li>2. Panel Clip</li><li>3. Fasteners</li><li>4. Seam Adhesive</li><li>5. Underlayment</li><li>6. Insulation (Optional)</li></ol>                                 |
| Support:                       | <b>Type:</b><br>Wood Deck<br>(Design of support and its attachment to support framing is outside the scope of this evaluation.)<br><br><b>Description:</b> <ul style="list-style-type: none"><li>• 15/32" or 19/32" or greater plywood, (Per Table A)</li><li>• or Wood plank (min. specific gravity of 0.42)</li></ul> |
| Slope:                         | Minimum slope shall be: <b>1/2 : 12</b> 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" details herein)</li></ul> <b>Refer to Table "A"</b>                                                                                                                                                     |

- 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:** 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).

**Components/Materials  
(by Manufacturer):**

**Roof Panel:**  
Material: Englert Series 1300 Aluminum  
Thickness: 0.032" (min.)  
Panel Widths: 16" or 20"(max.) Coverage  
Rib Height: 1-1/2"  
Alloy Type: 3105-H14 (in compliance with ASTM B 209)  
Corrosion Resistance: Per FBC Section 1507.4.3

**Roof Panel Clips:**

**Panel Clip #1:** 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 Floating Clip"  
Englert Part #'s: 05815A  
Type: Two-piece, floating clip  
Material: Stainless Steel  
Thickness: Clip Tab: .015" Stainless Steel  
Clip Base: .030" Stainless Steel  
Yield Strength: 40 ksi min.  
Dimensions: 1-5/8" (tall) x 3/4" (long) x 3" (wide)  
Corrosion Resistance: Per FBC Section 1506.7

**Panel Clip #3:** Product Name: Englert "Series 1300 3" 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 Wood Screw  
Size : #10 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 Chem-Chaulk 70-05  
Type: One component, polyurethane adhesive  
Application Size: 1/8" – 1/4" bead  
Application Location: along female flange the full length of panel  
(Refer to drawing Page 8)

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

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, 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.)
- Seam Adhesive: Refer to Table "A" & Drawing Page 8.  
(Apply along male flange the full length of the panel.)
- 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" ALLOWABLE LOADS                                             |                    |                       |            |                     |                         |               |                   |                       |
|-----------------------------------------------------------------------|--------------------|-----------------------|------------|---------------------|-------------------------|---------------|-------------------|-----------------------|
| "Series 1300" (0.032" Aluminum) Roof Panel attached to Wood Deck      |                    |                       |            |                     |                         |               |                   |                       |
|                                                                       | Panel Width (max.) | Deck Thickness (min.) | Panel Clip | Clip Spacing (max.) | # of Fasteners per Clip | Seam Adhesive | Panel Seam (min.) | Design Pressure (ASD) |
| 1                                                                     | 16"                | 15/32"                | #1         | 24"                 | 4                       | NO            | 90°               | - 60 PSF              |
| 2                                                                     | 16"                | 15/32"                | #3         | 6"                  | 2                       | NO            | 90°               | - 89.75 PSF           |
| 3                                                                     | 16"                | 15/32"                | #3         | 6"                  | 2                       | YES           | 90°               | - 138.5 PSF           |
| 4                                                                     | 16"                | 15/32"                | #1         | 8"                  | 4                       | NO            | 180°              | - 97.5 PSF            |
| 5                                                                     | 16"                | 19/32"                | #1         | 8"                  | 4                       | NO            | 180°              | - 123.5 PSF           |
| 6                                                                     | 20"                | 15/32"                | #3         | 12"                 | 2                       | YES           | 90°               | - 86.25 PSF           |
| 7                                                                     | 20"                | 15/32"                | #3         | 8"                  | 4                       | YES           | 90°               | - 97.5 PSF            |
| 8                                                                     | 20"                | 15/32"                | #2         | 16"                 | 2                       | NO            | 180°              | - 101.25 PSF          |
| 9                                                                     | 20"                | 15/32"                | #2         | 8"                  | 2                       | NO            | 180°              | - 142.5 PSF           |
| 10                                                                    | 20"                | 15/32"                | #2         | 8"                  | 2                       | YES           | 180°              | -180 PSF              |
| Note: 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:**

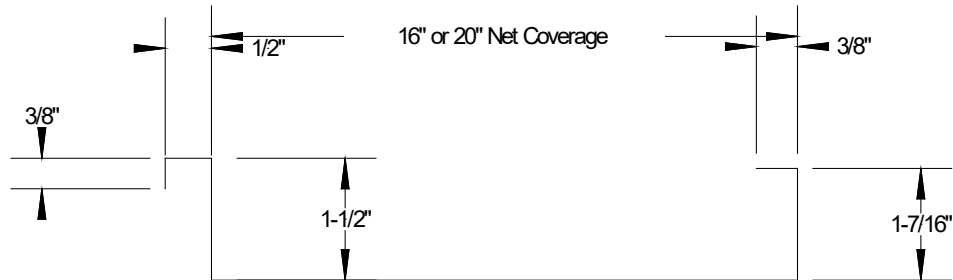
1. TAS 125 Uplift Test (#2-3)  
By Intertek Testing  
Report No. K2233.01-450-18, Specimens #1-3, Date: 08/03/20
2. TAS 125 Uplift Test  
By Architectural Testing, Inc. (FBC Organization ID# TST 1558)  
Report No. 01-46064.01, Specimen #1, Date: 12/3/03
3. TAS 125 Uplift Test  
By Hurricane Test Laboratory, LLC. (FBC Organization ID# TST 1527)  
Report No. 0155-0404-04, Specimen #2, Date: 5/21/04
4. TAS 125 Uplift Test (#8-10)  
By Architectural Testing, Inc. (FBC Organization ID# TST 1558)  
Report No. B8192.01-109-18-R1, Specimen #1-4, Date: 2/1/13
5. TAS 125 Uplift Test (#6-7)  
By Intertek/Architectural Testing, Inc.  
Report No. F1488.01.109-18-r2, Specimen #1-3, Date: 5/5/16
6. Quality Assurance  
Keystone Certifications, Inc. (FBC Organization ID# QUA 1824)  
Englert, Inc. Licensee #420
7. Engineering Analysis  
By James L. Buckner, P.E. @ CBUCK Engineering
8. Equivalency of Test Standard Certification  
By James L. Buckner, P.E. @ CBUCK Engineering
9. Certification of Independence  
By James L. Buckner, P.E. @ CBUCK Engineering

## Installation Method

Englert, Inc.

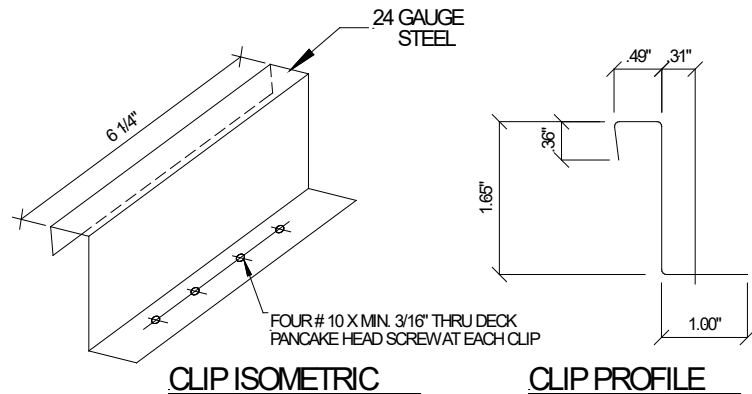
**“Series 1300” (0.032” Aluminum) Roof Panel attached to Wood Deck**

### Drawings

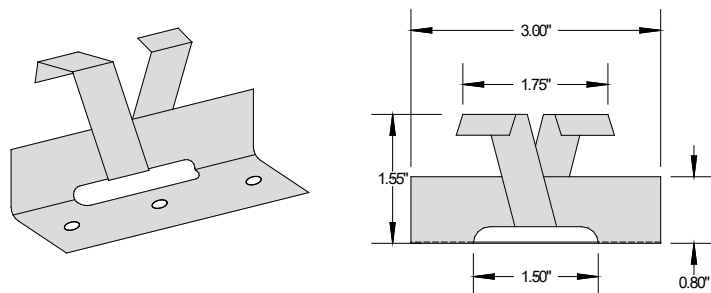


### Panel Profile

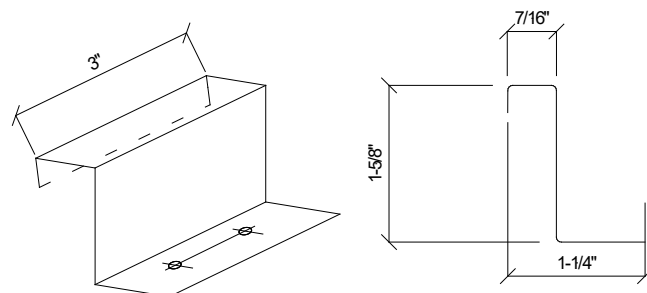
**Panel Clip #1**  
Englert “Series 1300  
Fixed Clip”  
(Part #05084D – Galvanized) or  
(Part #05084E – Stainless Steel)



**Panel Clip #2**  
Englert “Series 1300  
Floating Clip”  
(Part #05815A - Stainless Steel)



**Panel Clip #3**  
Englert “Series 1300  
3” Fixed Clip”  
(Part #05828J – Galvanized) or  
(Part #05828K – Stainless Steel)

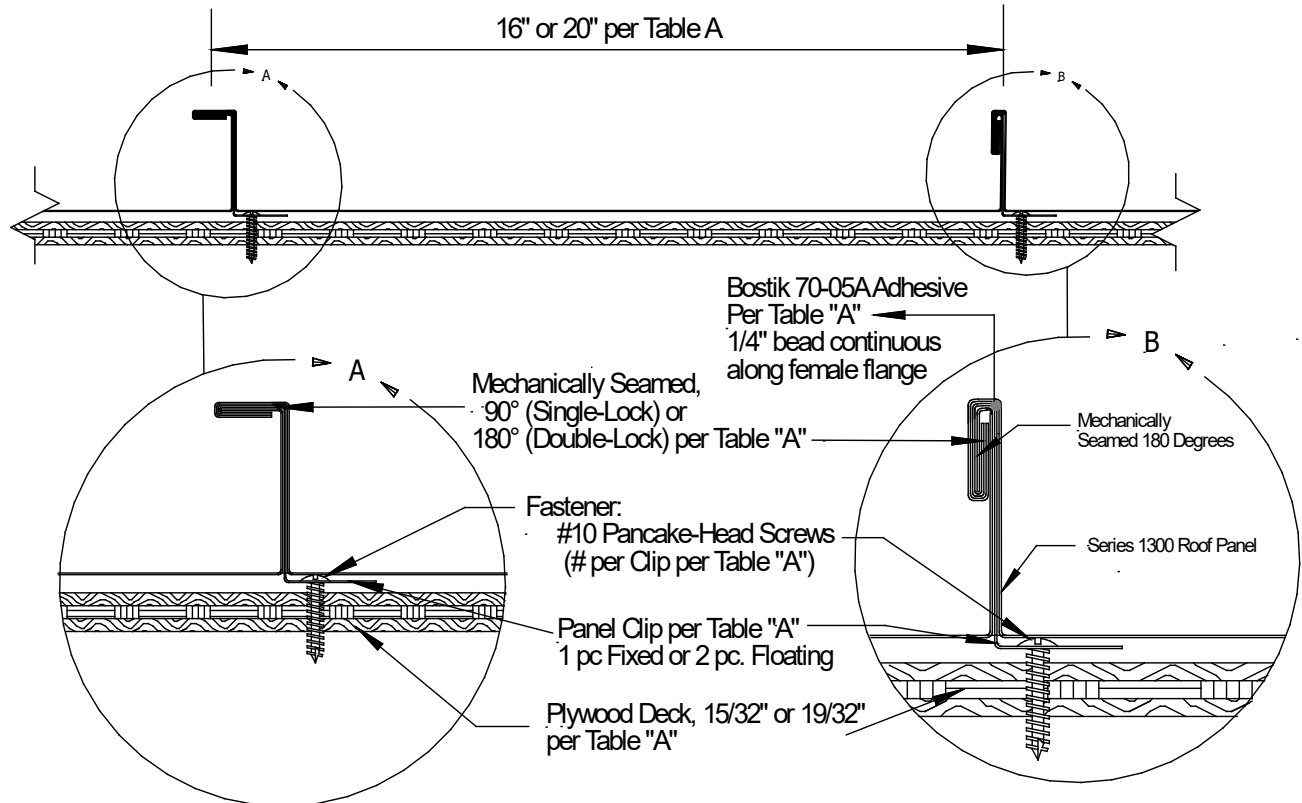


### Series 1300 Panel Clips

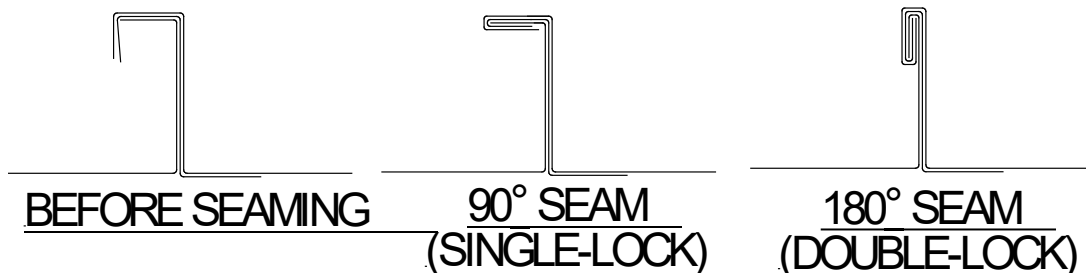
## Installation Method

Englert, Inc.

### "Series 1300" (0.032" Aluminum) Roof Panel attached to Wood Deck



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

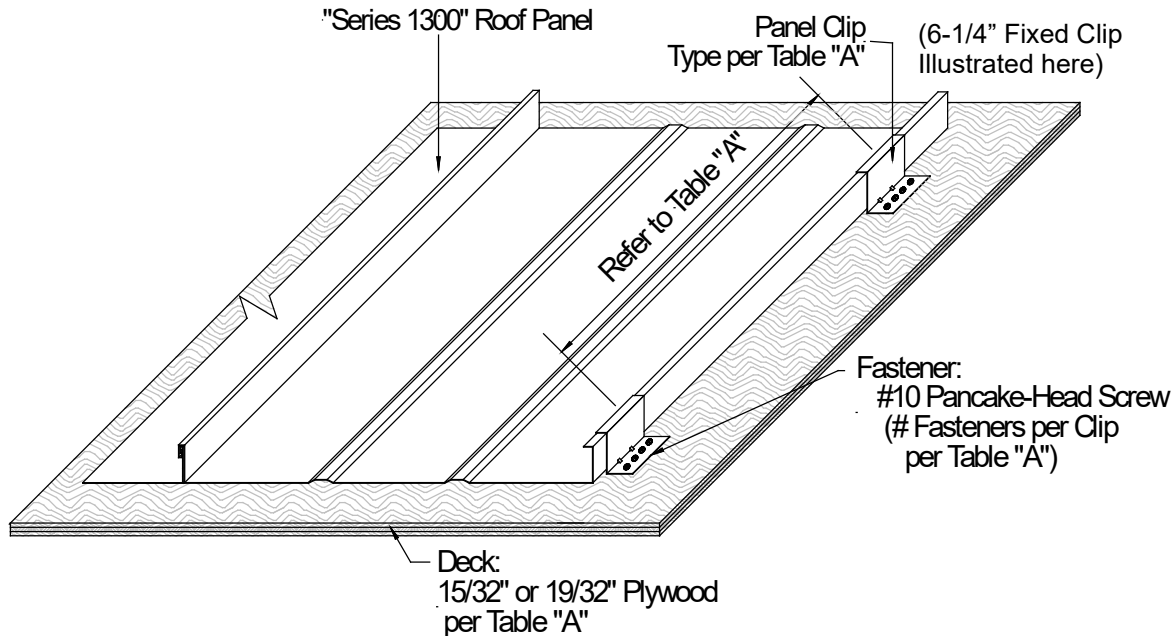


**Typical Panel Seams**

## Installation Method

Englert, Inc.

### "Series 1300" (0.032" Aluminum) Roof Panel attached to Wood Deck



### Typical Roof Assembly Isometric View

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

| TABLE "A" ALLOWABLE LOADS<br>"Series 1300" (0.032" Aluminum) Roof Panel attached to Wood Deck |                    |                       |            |                     |                         |               |                   |                       |
|-----------------------------------------------------------------------------------------------|--------------------|-----------------------|------------|---------------------|-------------------------|---------------|-------------------|-----------------------|
|                                                                                               | Panel Width (max.) | Deck Thickness (min.) | Panel Clip | Clip Spacing (max.) | # of Fasteners per Clip | Seam Adhesive | Panel Seam (min.) | Design Pressure (ASD) |
| 1                                                                                             | 16"                | 15/32"                | #1         | 24"                 | 4                       | NO            | 90°               | - 60 PSF              |
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| 9                                                                                             | 20"                | 15/32"                | #2         | 8"                  | 2                       | NO            | 180°              | - 142.5 PSF           |
| 10                                                                                            | 20"                | 15/32"                | #2         | 8"                  | 2                       | YES           | 180°              | -180 PSF              |