

Evaluation Report "Tee-Lock Panel" Metal Roof Assembly

Manufacturer:
Berridge Manufacturing Company
1720 Maury Road
Houston, TX 77026
(800) 231-8127

for

Florida Product Approval

FL 20321.1 R6

Florida Building Code 9th Edition (2026)

Method: 1 - D

Category: Roofing

Sub - Category: Metal Roofing

Product: "Tee-Lock" Roof Panel

Material: Steel

Panel Thickness: 24 gauge

Panel Width: 18"

Support: Wood Deck

Prepared by:

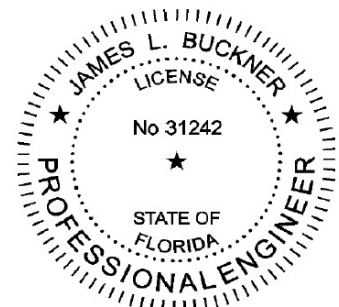
James L. Buckner, P.E., S.E.C.B.
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 26-809-TL-S4W-ER
(Revises 23-542-TL-S4W-ER, FL20321.1 R5)
Date: 08/17/2026

Contents:

Evaluation Report

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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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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:	Berridge Manufacturing Company 1720 Maury Road Houston, TX 77026 (800) 231-8127 www.berridge.com											
Product Name:	“Tee-Lock”											
Product Category:	Roofing											
Product Sub-Category	Metal Roofing											
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)											
Product/System Description:	“Tee-Lock” Standing Seam Roof Panel 2-3/8” Rib Height, 18” wide, 24 ga. Steel tee rib roof panel restrained by panel clips, fastened into Plywood Deck.											
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/materials & standards: <table><tr><td>1. Roof Panel</td><td>“Tee-Lock”</td></tr><tr><td>2. Panel Clip</td><td>Tee-Lock panel clip</td></tr><tr><td>3. Fasteners</td><td>#12, #14</td></tr><tr><td>4. Underlayment:</td><td>Per Page 5</td></tr><tr><td>5. Insulation (Optional)</td><td>Rigid Insulation Board with Bearing Plate</td></tr></table>		1. Roof Panel	“Tee-Lock”	2. Panel Clip	Tee-Lock panel clip	3. Fasteners	#12, #14	4. Underlayment:	Per Page 5	5. Insulation (Optional)	Rigid Insulation Board with Bearing Plate
1. Roof Panel	“Tee-Lock”											
2. Panel Clip	Tee-Lock panel clip											
3. Fasteners	#12, #14											
4. Underlayment:	Per Page 5											
5. Insulation (Optional)	Rigid Insulation Board with Bearing Plate											
Support:	Type: Wood Deck (Design of support and its attachment to support framing is outside the scope of this evaluation.) Description: • 15/32 or greater plywood, • or Wood plank (min. specific gravity of 0.42)											
Slope:	Minimum slope shall be in compliance with FBC Chapter 15 Section 1507.4.2, applicable code sections and in accordance with manufacturer’s recommendations.											
Performance:	Wind Uplift Resistance: • Design Uplift Pressure: Refer to Table A (Refer to “Table A” attachment details herein)											

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 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. • All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of FBC. 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 are outside the scope of this evaluation and shall comply with FBC Section 1504.3.1.1. • Design of support system is outside the scope of this report. • 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 UL, LLC (FBC Organization #: QUA 9625).

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

Roof Panel:
Material: Berridge "Tee-Lock"
Steel
Thickness: 24 gauge (min.)
Panel Width: 18" (max.) Coverage
Rib Height: 2-3/8"
Yield Strength: 50 ksi
Steel Grade: 40
Corrosion Resistance: In compliance with FBC Section 1507.4.3:

- ASTM A792 coated, or

Roof Panel Clip:
Type: Berridge Tee-Lock clip
One-Piece, Fixed panel clip
Overall Dimensions: 2.69"(tall) x 2.45"(wide) x 6" (long)
Material: Galvanized Steel
Thickness: 16 Gauge
Yield Strength: 50 ksi min.
Corrosion Resistance: Per FBC Section 1506.7

Fastener:

Refer to Table A for Fastener Selection

FASTENER #1

Type: Pancake-Head Wood Screw
Size: #12 - 11 x 1"

FASTENER #2

Type: Hex Washer Head Wood Screw
Size: #14 - 10 x 2"
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.4
Standard: Per FBC Section 1507.4.4 and ANSI/ASME B18.6.1

Bearing Plate (Required with use of Rigid Insulation Board):

Material: Galvanized Steel
Size: 6" x 6"
Thickness: 24 gauge
Yield Strength: 40 ksi min.

**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 report.)

- Clip Spacing
(along the length of the panel): **Refer to "TABLE A" Below**
- Rib Interlock: Mechanically seamed
- 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 "Tee-Lock" (24 ga. Steel) 18" Wide Roof Panel attached to Wood Deck							
	Clip Spacing	Insulation	Panel Clip Type	Fastener	# Fasteners per Clip	Panel Seam	Design Pressure
METHOD 1	36"	Optional 3"(max.)	Fixed, Tee-Lock	#14	2	Mech Seam	- 86 PSF
METHOD 2	12"	Optional 3"(max.)	Fixed, Tee-Lock	#12	2	Mech Seam	- 101 PSF
• Allowable design pressure(s) for allowable stress design (ASD).							

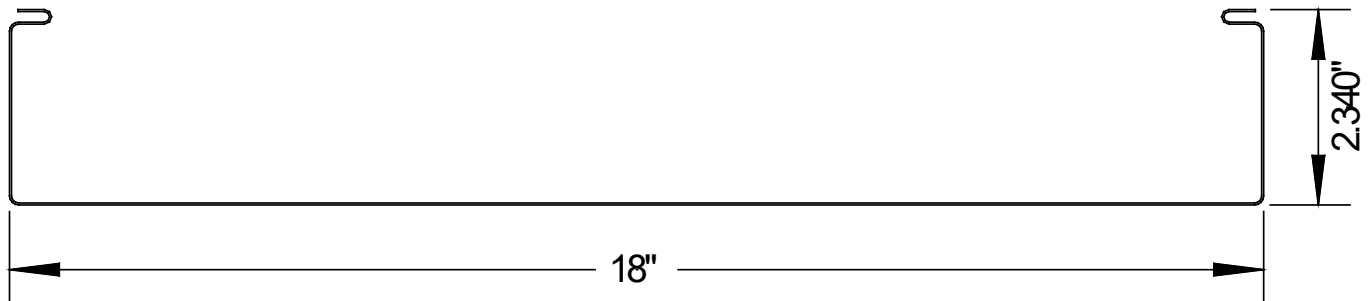
Install the "Tee-Lock" roof panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 9th Edition (2026). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation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

Referenced Data:

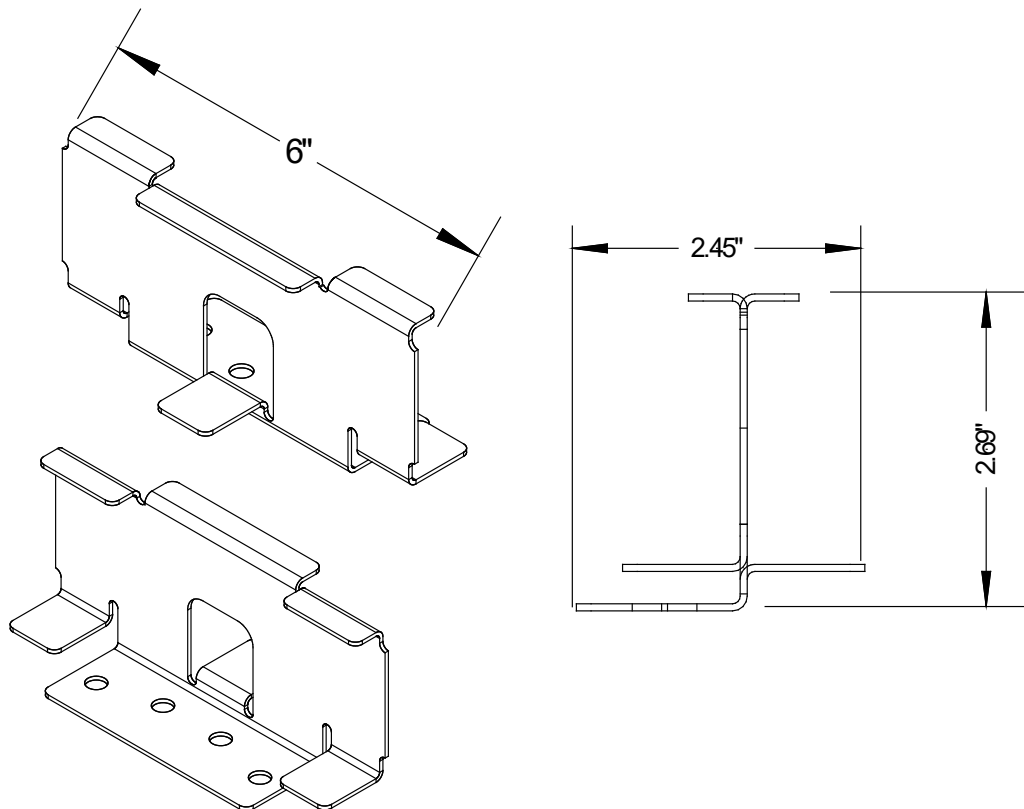
1. TAS 125-03 Uplift Test (Per UL580-06 and UL 1897-04)
By Force Engineering & Testing Inc., Inc. (TST ID: 5328)
 - Report # 49-0285T, 15A,B, Report Date: 3/24/16, Test Specimen(s) # A (Method 2), #B (Method 1)
2. Quality Assurance
UL, LLC (FBC Organization #: QUA 9625)
3. Certification of Independence
By James L. Buckner, P.E. @ CBLUE Engineering
(FBC Organization # ANE 1916)

Installation Method
Berridge Manufacturing Company
"Tee-Lock" (24 ga. Steel) Roof Panel attached to Wood Deck

Drawings

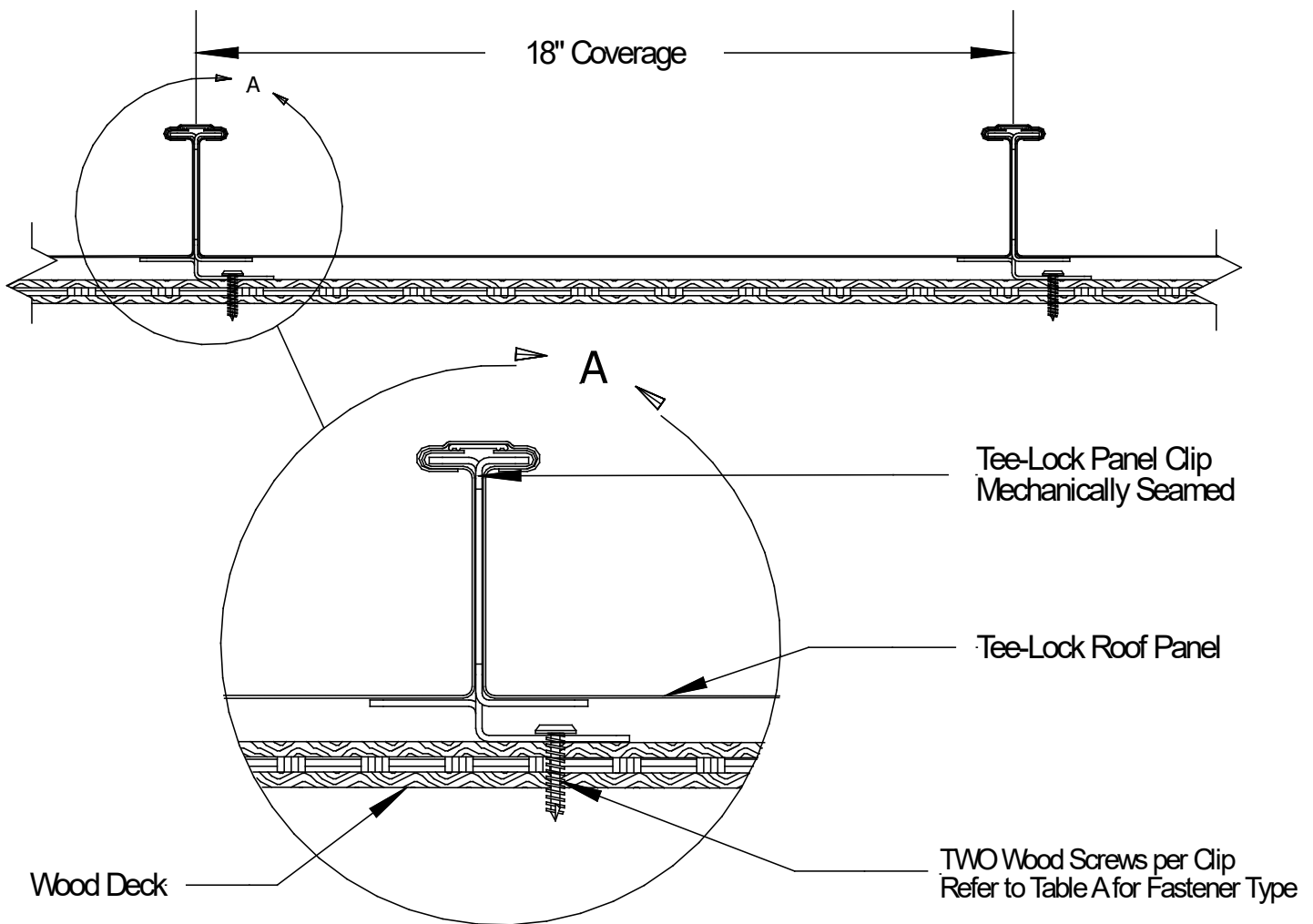


**Berridge Tee-Lock
Typical Panel Profile**



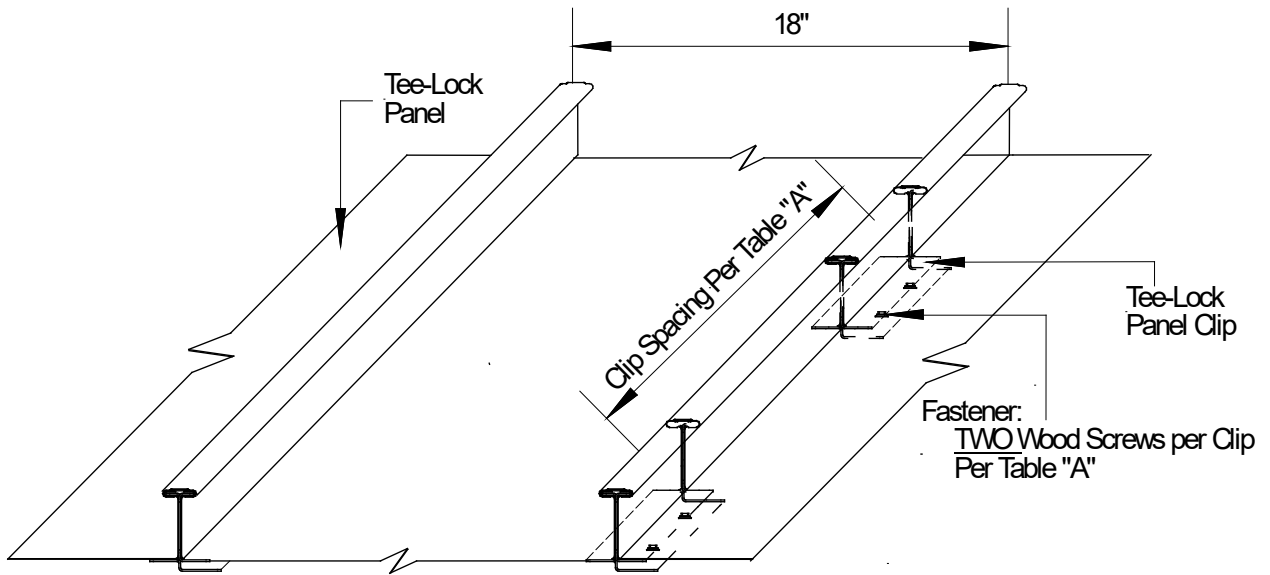
**Berridge One-Piece Fixed Tee-Lock Panel Clip
Typical Clip Profile**

Installation Method
Berridge Manufacturing Company
"Tee-Lock" (24 ga. Steel) Roof Panel attached to Wood Deck



Typical Assembly Profile View
(Typical Fastening Pattern Across Width)

Installation Method
Berridge Manufacturing Company
“Tee-Lock” (24 ga. Steel) Roof Panel attached to Wood Deck



Typical Roof Assembly with Tee-Lock Isometric View

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

TABLE "A" ALLOWABLE LOADS "Tee-Lock" (24 ga. Steel) 18" Wide Roof Panel attached to Wood Deck							
	Clip Spacing	Insulation	Panel Clip Type	Fastener	# Fasteners per Clip	Panel Seam	Design Pressure
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• Allowable design pressure(s) for allowable stress design (ASD).