

Evaluation Report “S” Deck Metal Wall Assembly

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

for

Florida Product Approval
FL 14669.6 R6
Florida Building Code 9th Edition (2026)

Method: 1 - D
Category: Structural Components
Sub - Category: Structural Wall

Product: “S” Deck Wall Panel
Material: Steel

Prepared by:

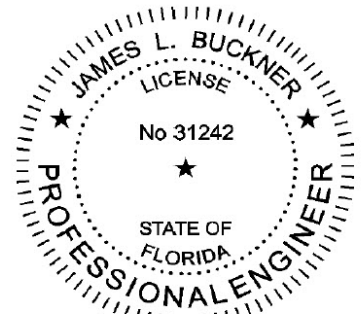
James L. Buckner, P.E., S.E.C.B.
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 26-809-S-SG-ER
(Revises 23-542-S-SG-ER, FL14669.6 R5)
Date: 08/17/2026

Contents:

Evaluation Report

Pages 1 – 8

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

2026.08.17 15:16:33 -04'00'

Manufacturer:	Berridge Manufacturing Company 1720 Maury Road Houston, TX 77026 (800) 231-8127 www.berridge.com
Product Name:	"S" Deck
Product Category:	Structural Components
Product Sub-Category	Structural Wall
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)
Product/System Description:	"S" Deck (Straight "S" Deck or Curved "S" Deck) Wall Panel Steel lapped wall panel fastened into structural Steel Supports.
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/materials & standards: 1. Wall Panel 2. Fasteners
Support:	Type: Steel Supports (Design of steel support and its attachment to support framing is outside the scope of this evaluation.) Description: Material: Steel Thickness: 16 Gauge minimum Yield Strength: 50 ksi minimum Girt/Stud Size: 2" min. flange bearing
Performance:	Wind Resistance: • Design Pressure: Refer to Table A (Refer to "Table A" attachment details herein)

- Performance Standards:** The product described herein has demonstrated compliance with:
- **ASTM E 1592-05 (2017)** – *Test Method for Structural Performance of Sheet Metal Roof and Siding Systems By Uniform Static Air Pressure Difference*
- Standards Equivalency:** The ASTM E 1592-01 standard version used to test the product meets the prescribed standards in ASTM E 1592-05 (2017) standard version adopted by the Florida Building Code 9th Edition (2026) for use as evaluated in this report.
- 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:**
- Arch Minimum Radius for Curved Panel is 60" (5' - 0").
 - Diaphragm and axial load capacity is outside the scope of this evaluation.
- 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.
 - 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.
 - Design of support system is outside the scope of this report. Support shall be structural framing members complying with the FBC Chapter 22 for steel and Chapter 16 for structural loading and shall be designed by others.
 - 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 wall 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):**

Wall Panel:
Material: Berridge ""S" Deck"
Steel
Thickness: 24 Gauge
Panel Width: 31.5" Coverage
Rib Height: 7/8"
Yield Strength: 40 ksi min.
Steel Grade: 40
Corrosion Resistance: In compliance with FBC Section 1405.2

Fastener:

FASTENER 1:
Type: Panel to Support
Hex-Head Sheet Metal Screw with WSW
Size: #12 – 14 x 3/4"
Corrosion Resistance: Per FBC Section 1405.17 & 1403.12
Standard: Approved per FBC Section 1405.17

FASTENER 2:
Type: Panel to Panel, Stitch Lap
Hex-Head Sheet Metal Screw with WSW
Size : #12 – 14 x 1"
Corrosion Resistance: Per FBC Section 1405.17 & 1403.12
Standard: Approved per FBC Section 1405.17

Installation:

Installation Method:

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

- Girt/Support Spacing: **Refer to Table A Below**
- Fastener spacing: **Refer to Table A Below**
(along the girt, in the valley of panel corrugations)
- Side Lap Spacing: **Refer to Table A Below**
(along the length of the side laps and within 3" from each end)
- Rib Interlock: Lapped
- Minimum fastener penetration thru support, 3/4".
(through flange of steel supports)

TABLE "A" ALLOWABLE LOADS				
	METHOD 1:		METHOD 2:	
Design Pressure:	Positive:	Negative:	Positive:	Negative:
	+ 78 PSF	- 78 PSF	+ 190 PSF	- 190 PSF
Panel Type:	Straight or Curved "S" Deck			
Max. Support Spacing:	60" (5'- 0")		30" (2' - 6")	
Fastener Spacing:	8" (every 3 rd valley)		5-1/3" (every other valley)	
Side Lap Spacing:	12"		12"	
Span Condition:	3 or more		3 or more	
Notes:				
• Positive Pressure Inward/Negative Pressure Outward • Allowable design pressure(s) for allowable stress design (ASD). • Fastener Attachment to Steel Supports May Be Designed By A Qualified Design Professional As Required By The Florida Building Code For Site Specific Projects. • Diaphragm and axial load capacity are not included in this evaluation.				

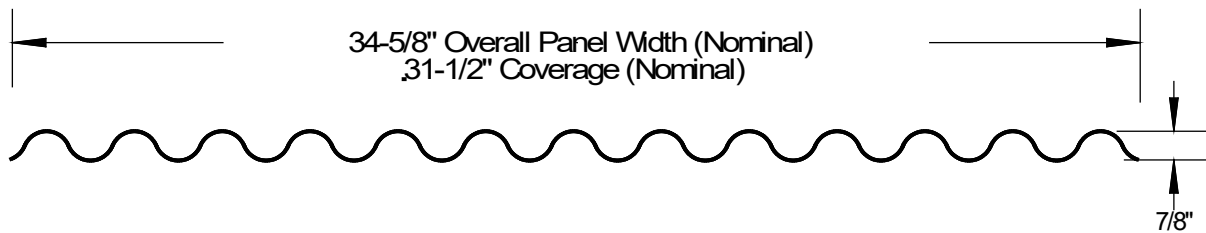
Install the "S" Deck wall panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 9th Edition (2026). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions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

Referenced Data:

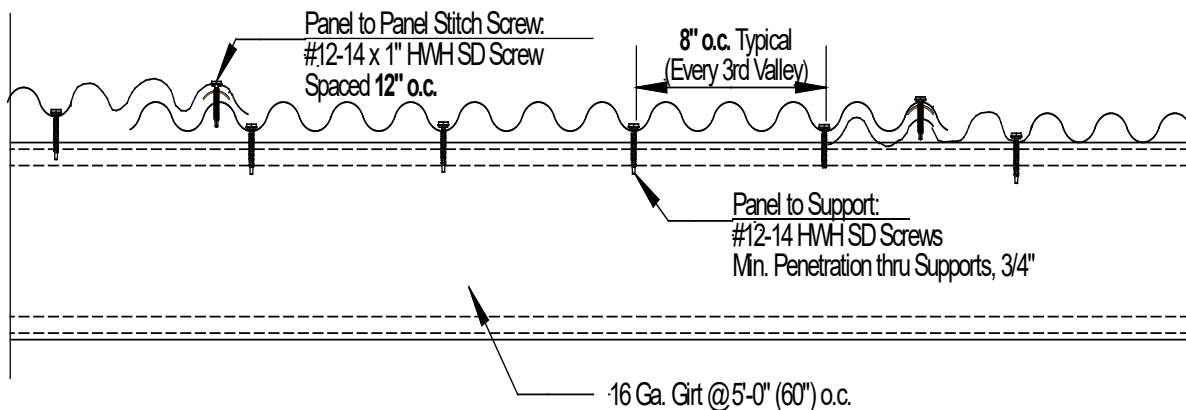
1. TAS 125-03 Uplift Test (per ASTM E 1592-01)
By Force Engineering & Testing Inc., Inc. (FBC Organization #TST ID:5328)
 - Report # 49-0007T-07 A-C, Report Date: 3/21/07
Test Specimen(s) A,B,C (Method 1)
 - Report # 49-0007T-07 D, Report Date: 3/21/07
Test Specimen(s) D (Method 2)
2. Engineering Analysis
By CBUCK Engineering
3. Equivalency of Test Standard Certification
By James L. Buckner, P.E. @ CBUCK Engineering
4. Quality Assurance
UL, LLC (FBC Organization #: QUA 9625)
5. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering

Installation Method
Berridge Manufacturing Company
“S” Deck” Steel Wall Panel attached to Steel Supports

Profile Drawings

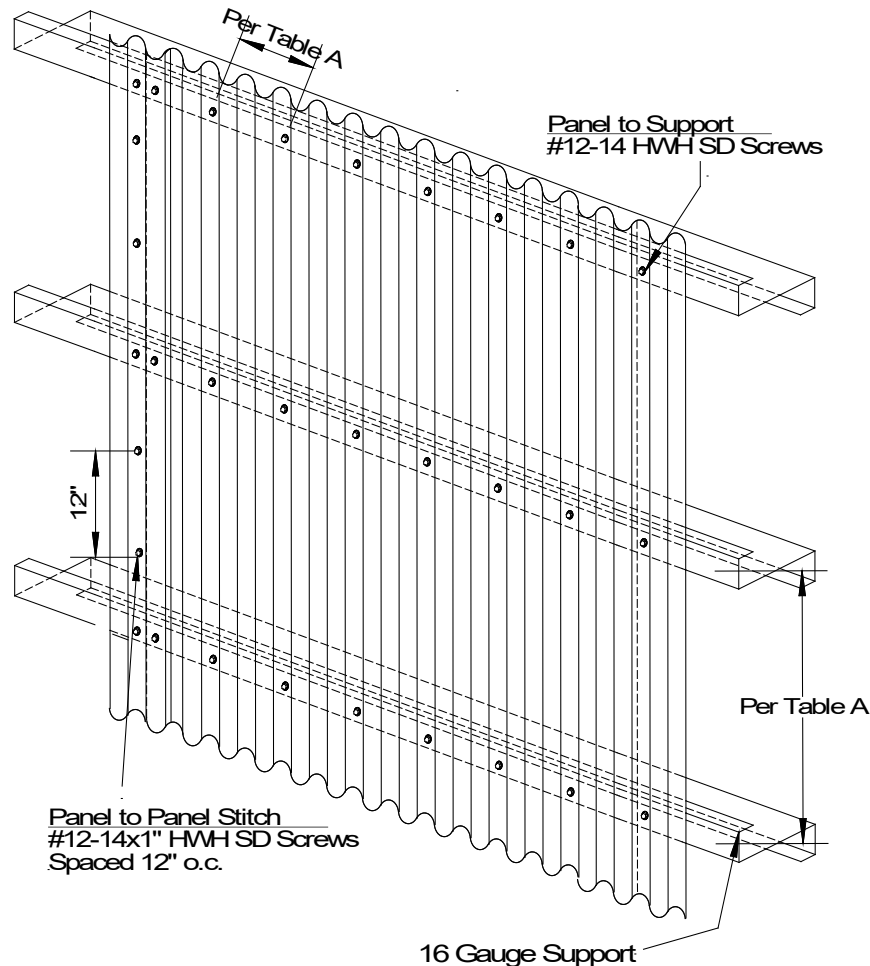


**TYPICAL “S” Deck” PANEL
PROFILE VIEW**



**TYPICAL PANEL ASSEMBLY
SECTION VIEW**

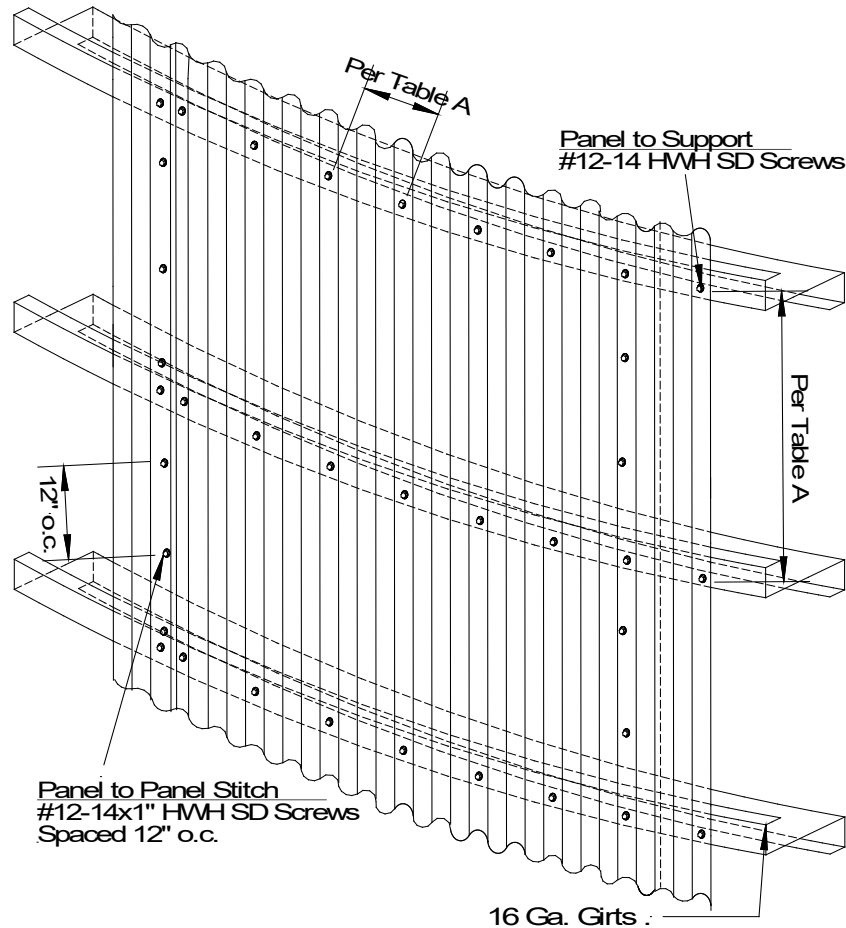
Installation Method Berridge Manufacturing Company "S" Deck" Steel Wall Panel attached to Steel Supports



**STRAIGHT "S" DECK - TYPICAL ELEVATION VIEW
OUTSIDE OF WALL ASSEMBLY**

TABLE "A"				
	METHOD 1:		METHOD 2:	
Design Pressure:	Positive:	Negative:	Positive:	Negative:
	+ 78 PSF	- 78 PSF	+ 190 PSF	- 190 PSF
Panel Type:	Straight or Curved "S" Deck		Straight or Curved "S" Deck	
Max. Support Spacing:	60" (5' - 0")		30" (2' - 6")	
Fastener Spacing:	8" (every 3 rd valley)		5-1/3" (every other valley)	
Side Lap Spacing:	12"		12"	
Span Condition:	3 or more		3 or more	

Installation Method Berridge Manufacturing Company “S” Deck” Steel Wall Panel attached to Steel Supports



**CURVED “S” DECK - TYPICAL ELEVATION VIEW
OUTSIDE OF WALL ASSEMBLY**

TABLE “A”				
Design Pressure:	METHOD 1:		METHOD 2:	
	Positive:	Negative:	Positive:	Negative:
	+ 78 PSF	- 78 PSF	+ 190 PSF	- 190 PSF
Panel Type:	Straight or Curved “S” Deck		Straight or Curved “S” Deck	
Max. Support Spacing:	60" (5' - 0")		30" (2' - 6")	
Fastener Spacing:	8" (every 3 rd valley)		5-1/3" (every other valley)	
Side Lap Spacing:	12"		12"	
Span Condition:	3 or more		3 or more	