

Specialty Structural Engineering

CBUCK, Inc. Certificate of Authorization #8064

Evaluation Report

"Thin-Line"

Metal Wall Assembly

Manufacturer:

Berridge Manufacturing Company

1720 Maury Road

Houston, TX 77026

(800) 231-8127

for

Florida Product Approval

FL 14669.7 R4

Florida Building Code 7th Edition (2020)

Method: 1 - D

Structural Components Category:

Sub - Category: Structural Wall

Product: Material:

"Thin-Line" Wall Panel Steel

Prepared by:

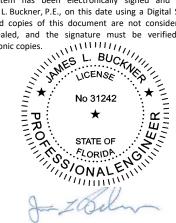
James L. Buckner, P.E., S.E.C.B. Florida Professional Engineer # 31242 Florida Evaluation ANE ID: 1916 Project Manager: Diana Galloway Report No. 20-227- TL-S4G-ER (Revises 17-128-TL-S4G-ER, fka FL14669.7 R3) Date: 09 / 17 / 20

Contents:

Evaluation Report

Pages 1-7

This item has been electronically signed and sealed by James L. Buckner, P.E., on this date using a Digital Signature. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.



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 FL #:
 FL 14669.7 R4

 Date:
 09 / 17 / 20

 Report No.:
 20-227-TL-S4G-ER

 Page
 2 of 7

Specialty Structural Engineering

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Manufacturer:	Berridge Manufacturing Company 1720 Maury Road Houston, TX 77026 (800) 231-8127 www.berridge.com			
Product Name:	"Thin-Line"			
Product Category:	Structural Components			
Product Sub-Category	Structural Wall			
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)			
Product/System Description:	"Thin-Line"Wall Panel Steel lapped wall panel fastened into Steel Supports.			
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/materials & standards:			
	 Wall Panel 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: 24 Gauge minimum Yield Strength: 40 ksi minimum			
	Girt/Stud Size: 2" min	. flange bearing		
Performance:	Wind Resistance:Design Pressure: (Refer to "Table A" a	ttachment details herein)	Positive: +187 PSF Negative: -153 PSF	



 FL #:
 FL 14669.7 R4

 Date:
 09 / 17 / 20

 Report No.:
 20-227-TL-S4G-ER

 Page
 3 of 7

Specialty Structural Engineering

CBUCK, Inc. Certificate of Authorization #8064

Performance Standards:	 The product described herein has demonstrated compliance with: ASTM E330-02 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference 		
Code Compliance:	The product(s) described herein have demonstrated compliance with the performance standards listed above as referenced in the current Florida Building Code.		
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:	 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". 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. This report is a building code product evaluation per FLPE rule (FAC) 61G15-36 to comply with 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. Design of support system is outside the scope of this report. Support shall be designed by others and shall comply with the FBC Chapters 22 for steel and Chapter 16 for structural loading. Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation. 		
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) .		

CBUCK Engineering

 FL #:
 FL 14669.7 R4

 Date:
 09 / 17 / 20

 Report No.:
 20-227-TL-S4G-ER

 Page
 4 of 7

Specialty Structural Engineering

CBUCK, Inc. Certificate of Authorization #8064

Components/Materials (by Manufacturer):	Wall Panel: Material: Thickness: Panel Width: Rib Height: Yield Strength: Steel Grade: Corrosion Resistance:	Berridge "Thin-Line" Steel 24 gauge (min.) 3-5/8" (max.) Coverage 3/8" 40 ksi min. 40 In compliance with FBC Section 1405.2
	Fastener: Type: Size : Corrosion Resistance: Standard:	Pancake-Head Self-Drilling Screw 10 x 1" Per FBC Section 1405.17 Approved per FBC Section 1405.17
Installation:	 Installation Method: (Refer to "TABLE A" below and drawings at the end of this repor Girt/Support Spacing: Refer to "TABLE A" Below Fastener spacing: Refer to "TABLE A" Below (along the girt, in the groove of the male leg) Panel ribs shall be fully engaged to form an integral interloc Minimum fastener penetration thru support, 3/4". (through flange of steel supports) 	
		TABLE "A"

TABLE "A" ALLOWABLE LOADS				
	METHOD 1:			
	Positive:	Negative:		
Design Pressure:	+ 187 PSF	- 153 PSF		
Max. Support Spacing:	24" (2'- 0")			
Fastener Spacing:	3-5/8″			
Span Condition:	3 or more			
Notes: • Positive Pressure Inward/Negat • Allowable design pressure(s) • Fastener Attachment to Stee	for allowable stres	s design (ASD).		

- 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 "Thin-Line" wall panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 7th Edition (2020). 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.



 FL #:
 FL 14669.7 R4

 Date:
 09 / 17 / 20

 Report No.:
 20-227-TL-S4G-ER

 Page
 5 of 7

Specialty Structural Engineering

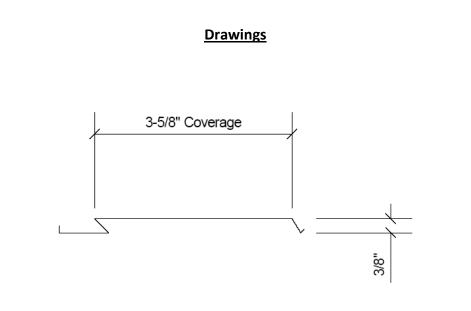
CBUCK, Inc. Certificate of Authorization #8064

Referenced Data:	1.	ASTM E330-02 Test & Uniform Static Air Pressure portion of TAS 202-94 Test
		By Hurricane Test Laboratory, LLC (FBC Organization #TST ID:1527)
		Report #: 0307-0712-05, Report Date: 12/16/05
		Test Specimen(s) 11, 12

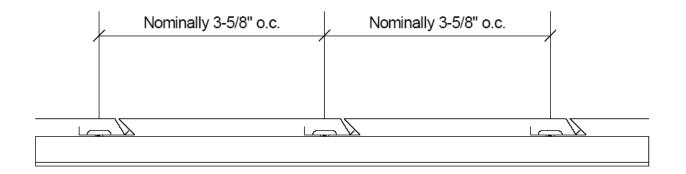
- 2. Quality Assurance UL, LLC (FBC Organization #: QUA 9625)
- Certification of Independence By James L. Buckner, P.E. @ CBUCK Engineering (FBC Organization # ANE 1916)



Berridge Manufacturing Company "Thin-Line" Steel Wall Panel attached to Steel Supports



Typical Panel Profile

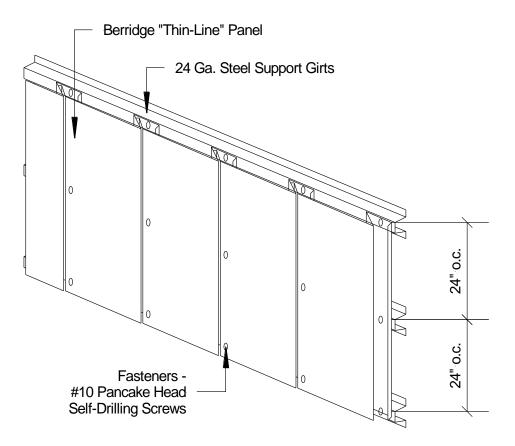


Assembly Profile View Typical Fastening Pattern Across Supports

Installation Method



Berridge Manufacturing Company "Thin-Line" Steel Wall Panel attached to Steel Supports



Typical Elevation View Outside Of Wall Assembly