

# MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

# DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

#### NOTICE OF ACCEPTANCE (NOA)

Berridge Manufacturing Company 6515 Fratt Road San Antonio, TX 78218

#### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

#### DESCRIPTION: Berridge "FW-12" Steel Wall & Soffit Panel System

**APPROVAL DOCUMENT:** Engineering Report No. **20-227-FW12-ER**, titled "Berridge "FW-12" Steel Wall & Soffit Panel", sheets 1 through 9 of 9, dated 09/24/2020, prepared by C-Buck Engineering, signed and sealed by James L. Buckner, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

#### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, Houston, San Antonio or Seguin, TX, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**LIMITATION:** This panel system has not been tested for water and air infiltration.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **revises NOA # 20-0128.03** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMI-DADE COUNTY
APPROVED

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NOA No. 20-1013.10 Expiration Date: March 24, 2025 Approval Date: January 21, 2021

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#### **NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- 1. Evidence submitted under previous NOA's
- A. DRAWINGS "Submitted under NOA # 15-0421.11"
  - Engineering Report No. **09-191-FW12-ER.3**, titled "Berridge "FW-12" Steel Wall & Soffit Panel", sheets 1 through 9 of 9, dated 02/09/2010, with revision 2 dated 04/16/2015, prepared by C-Buck Engineering, signed and sealed by James L. Buckner, P.E.
- B. TESTS "Submitted under NOA # 09-1028.05"
  - 1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
    - 2) Large Missile Impact Test per FBC, TAS 201-94
    - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
    - 4) Tensile Test per ASTM E8-04

along with marked-up drawings and installation diagram of three FW-12 Steel Siding/Soffit Panels, prepared by Architectural Testing, Inc., Test Report No. **78918.03-801-18**, dated 08/20/2009, signed and sealed by Joseph A. Reed, P.E.

- C. CALCULATIONS "Submitted under NOA # 09-1028.05"
  - 1. Fastener evaluation calculations, prepared by C-Buck Engineering, dated 10/22/2009, signed and sealed by James L. Buckner, P.E.
- D. QUALITY ASSURANCE
  - 1. Miami-Dade Department of Regulatory and Economic Resources (RER)
- E. MATERIAL CERTIFICATIONS
  - 1. None.
- F. STATEMENTS "Submitted under NOA # 15-0421.11"
  - 1. Drawing No. **09-191-FW12-ER.3** statement of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by C-Buck Engineering, dated 02/09/2012, with revision 2 dated 04/16/2015, signed and sealed by James L. Buckner, P.E.
    - "Submitted under NOA # 12-0329.08"
  - 2. Drawing No. **09-191-2** statement of code conformance to 2010 FBC issued by C-Buck Engineering, dated 02/09/2012, signed and sealed by James L. Buckner, P.E.
    - "Submitted under NOA # 09-1028.05"
  - 3. Statement letter of no financial interest issued by C-Buck Engineering, dated 10/23/2009, signed and sealed by James L. Buckner, P.E.

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Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-1013.10
Expiration Date: March 24, 2025
Approval Date: January 21, 2021

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. Evidence submitted under NOA #17-1211.12
- A. DRAWINGS
  - Engineering Report No. **17-128-FW12-ER**, titled "Berridge "FW-12" Steel Wall & Soffit Panel", sheets 1 through 9 of 9, dated 11/13/2017, prepared by C-Buck Engineering, signed and sealed by James L. Buckner, P.E.
- B. TESTS
  - 1. None.
- C. CALCULATIONS
  - 1. None.
- D. QUALITY ASSURANCE
  - 1. Miami-Dade Department of Regulatory and Economic Resources (RER)
- E. MATERIAL CERTIFICATIONS
  - 1. None.
- F. STATEMENTS
  - 1. Statements of code conformance on drawing No. 17-128-FW12-ER, Section 2.1.1 and 9.1, stating conformance to the 6<sup>th</sup> edition (2017) FBC issued by C-Buck Engineering, dated 11/13/2017, signed and sealed by James L. Buckner, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-1013.10

Expiration Date: March 24, 2025 Approval Date: January 21, 2021

#### **NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- 3. New evidence submitted
- A. DRAWINGS
  - Engineering Report No. **20-227-FW12-ER**, titled "Berridge "FW-12" Steel Wall & Soffit Panel", sheets 1 through 9 of 9, dated 09/24/2020, prepared by C-Buck Engineering, signed and sealed by James L. Buckner, P.E.
- B. TESTS
  - 1. None.
- C. CALCULATIONS
  - 1. None.
- D. QUALITY ASSURANCE
  - 1. Miami-Dade Department of Regulatory and Economic Resources (RER)
- E. MATERIAL CERTIFICATIONS
  - 1. None.
- F. STATEMENTS
  - 1. Statements of code conformance on drawing No. **20-227-FW12-ER**, Section 2.1.1 and 9.1, stating conformance to the 7<sup>th</sup> edition (2020) FBC issued by C-Buck Engineering, dated 09/24/2020, signed and sealed by James L. Buckner, P.E.

Approval Date: January 21, 2021

# **Engineering Report & Drawings**

of

Berridge Manufacturing Company "FW-12"

Wall & Soffit Panel Assembly *for*Miami-Dade Notice of Acceptance (N.O.A.)

Category:

**Panels** 

Sub - Category:

Wall

Product:

"FW-12" Structural Steel Wall Panel

Material:

Steel

Panel Thickness:

24 gauge

#### Prepared by:

James L. Buckner, P.E.

Florida Professional Engineer # 31242

Project Manager: Diana Galloway

Report No.: 20-227-FW12-ER

Date: 9 / 24 / 2020

## PRODUCT REVISED

as complying with the Florida Building Code

NOA-No. 20-1013.10

Expiration Date 03/24/2025

By Miami-Dade Product Control

#### Contents:

Cover Page Page 1
Product Details Page 2
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Product Components Page 5
Product Drawings & Details Page 6-9

# No.31242 \* STATE OF STATE OF

# BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL ENGINEERING REPORT

CBUCK Engineering

Specially Structural Engineering
CBUCK, Inc. COA #8064
1374 Community Drive
Jupiter, FL 33458
(561) 491-9927

#### MANUFACTURER:

Berridge Manufacturing Company 6515 Fratt Rd.

San Antonio, TX 78218

DATE:	9/24/20
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DRAWN BY:	DG
REVISIONS:	2/9/12,4/16/15,11/13/17,9/24/20

Date: a /ow/ /ow

#### 1.0 Product:

1.1 Manufacturer: Berridge Manufacturing Company

1.2 **Product Name:** "FW-12" Structural Steel Wall & Soffit Panel

1.3 Category: Panels

1.4 Subcategory: Wall as complying with the Florida Building Code
NOA-No. 20-1013.10

2.0 Evaluation Scope: Expiration Date 03/24/2025

#### 2.1 Evaluation Criteria:

2.1.1 Florida Building Code (FBC) 7th Edition (2020)

Miami–Dade Product Control

2.1.1.1 Code Section: High Velocity Hurricane Zone (HVHZ)

2.1.1.2 Miami-Dade Department Of Regulatory And Economic

Resources, Product Control Section Checklist # 0250

#### 2.2 Properties Evaluated:

2.2.1 Wind Resistance Properties

2.2.1.1 Uniform Static Air Pressure

(Structural only. This panel system has not been tested for water &

air infiltration.)

2.2.1.2 Cyclic Wind Pressure

2.2.1.3 Large Missile Impact

2.2.2 Material Properties

2.2.2.1 Tensile strength

#### 2.3 Limits of Evaluation:

This product is limited to compliance with the criteria in section 2.1 and properties in section 2.2 of this report.

#### 3.0 Evaluated Uses:

"FW-12" Wall Panels are evaluated for use as exterior wall or soffit panels.

#### 4.0 Product Description:

#### 4.1 General:

"FW-12" panels are structural steel wall panels with concealed fasteners, a flush seam appearance and an interlocking seam edge. Panels are installed vertically to horizontal steel supports with screws.

#### 4.2 **Product Dimensions:**

4.2.1 Thickness: 24 gauge

4.2.2 Coverage Width: 12 in. 4.2.3 Rib height: 1-1/2 in.

4.2.4 Length: Roll formed, continuous up to 40 ft.

4.2.5

# BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL

ENGINEERING REPORT

Specialty Structural Engineering
CBUCK, Inc. COA #8064
1374 Community Drive
Jupiter, FL 33458
(561) 491-9927

MANUFACTURER:

Berridge Manufacturing Company

6515 Fratt Rd. San Antonio, TX 78218

DATE:	9/24/20
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, Date: a,/っ⊿ /っっ

No.31242

#### 5.0 Support:

The Support assembly is designed by others and shall have the following minimum Characteristics:

5.1 Type: Girts

5.2 Material: Steel

5.3 Thickness: 16 Gauge min.

5.4

Yield Strength:

50 ksi

5.5 Girt Size: 2" min. flange bearing

PRODUCT REVISED

as complying with the Florida Building Code

NOA-No.

20-1013.10

Expiration Date 03/24/2025

Miami-Dade Product Control

#### 6.0 Performance:

#### 6.1 Wind Resistance:

Design Pressure:

**Positive** 

+ 110 psf

Negative - 110 psf

Based on the following conditions: Support:

6.1.1

6.1.1.1 Type: Horizontal Girts

Shape: Cee 6.1.1.2

6.1.1.3 Dimensions: 4" x 2-1/2"

6.1.1.4 Material: Steel 6.1.1.5 Thickness: 16 Ga. 6.1.1.6 Yield Strength: 50 ksi

6.1.1.7 Spacing: 24 in. o.c

Span Condition: 4 or more 6.1.1.8

6.1.2 Attachment of "FW-12" panel per Section 7.0

#### **Uniform Static Air Infiltration:** 6.2

Standard

**TAS 202** 

Results:

Per Section 6.1

#### 6.3 **Cyclic Wind Loading:**

Standard:

**TAS 203** 

Results:

Passed

#### Impact Rating: Large Missile Impact 6.4

Standard:

**TAS 201** 

Results:

**Passed** 

#### 7.0 Installation:

Install per the following:

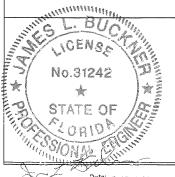
"FW-12" wall panel to supports:

Two screws per Section 12.2.1, located at the vertical joints to the horizontal supports (every 24 in.) and at every panel end (every 12 in.) Fasteners shall penetrate the steel supports by ½ in. minimum.

"FW-12" panel-to-panel stitching:

One screw per Section 12.2.2, spaced 12 in. o.c. along panel seams (and within 3 in. from ends).

See Drawings on pages 6 through 9 of this report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.



#### BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL **ENGINEERING REPORT**

CBUCK Engineering

Specially Structural Engineering CBUCK, Inc. COA #8064 1374 Community Drive

Jupiter, FL 33458 (561) 491-9927

MANUFACTURER:

Berridge Manufacturing

Company

6515 Fratt Rd. San Antonio, TX 78218

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#### 8.0 Limitations of Use:

- 8.1 Performance data is based on minimum characteristics per Section 6.1.1.
- 8.2 Design of support system is outside the scope of this report. Support shall be structural framing members complying with the Miami-Dade (Florida High velocity zone) code and shall be designed by others.
- 8.3 Panel shall not be used as axial load bearing components and shall not be intended / designed to act as a diaphragm.
- 8.4 This evaluation is limited to the wall panel, wall panel fasteners and its attachment to the supports. The structural properties and design of all other items are outside the scope of this evaluation and should be submitted to the permitting jurisdiction for review and approval.

#### 9.0 Code Compliance

9.1 Product meets the High Velocity Hurricane Zone (HVHZ) Requirements of the Florida Building Code (FBC) 7th Edition (2020) for the properties evaluated.

#### 10.0 Identification:

Each Panel shall bear a permanent one of the following permanent labels: 10.1

Berridge Manufacturing Co.

Berridge Manufacturing Co.

Berridge Manufacturing Co.

1720 Maury Street

6515 Fratt Road

2201 Rudeloff Road

Houston, TX 77026 San Antonio, TX 78218 Seguin, TX 78155

And the Statement: "Miami-Dade County Product Control Approved".

Labeling shall comply with FBC 7th Edition (2020), Section 1709.10. 10.2

PRODUCT REVISED as complying with the Florida **Building Code** 20-1013.10

NOA-No.

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Miami-Dade Product Control

Expiration Date 03/24/2025

#### 11.1 Test Report on:

11.0 Referenced Data:

TAS 201-94, Impact Test Procedures

TAS 202-94, Criteria for Testing Impact and Non-impact Resistant Building Envelope Components Using Uniform Static Air Pressure

TAS 203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading ASTM E8-08, Standard Test Methods for Tensile Testing of Metallic Materials For Model: "FW-12"

By: Architectural Testing, Inc., Southlake, TX

Report No.: 78918-03-801-18, Dated: 8/20/09, Signed & Sealed 8/24/09 by Joseph A.

Reed, P.E.

# No.31242

BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL **ENGINEERING REPORT** 

CBUCK Engineering Speciality Structural Engineering

CBUCK, Inc. COA #8064 1374 Community Drive Jupiter, FL 33458 (561) 491-9927

MANUFACTURER:

Berridge Manufacturing Company 6515 Fratt Rd. San Antonio, TX 78218

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#### 12.0 Product Components:

#### 12.1 "FW-12":

12.1.1 **Dimensions:** 

> Panel Gauge: 24 gauge 12.1.1.1 12 in. 12.1.1.2 Coverage Width: 12.1.1.3 Rib height: 1-1/2 in.

12.1.1.4 Roll formed, continuous up to 40 ft. Length:

12.1.2 **Properties:** 

> 12.1.2.1 Material Steel 12.1.2.2 Yield Strength: 62 ksi

12.1.2.3 Thickness: 24 Gauge (t = 0.023" painted, as tested)

Corrosion Resistance/Standards: 12.1.2.4

> Galvanized G90 per ASTM A924 12.1.2.4.1

12.1.2.4.2 Galvalume per ASTM A792 AZ 55 with Kynar 500

#### 12.2 Fasteners:

12.2.1 **Panel to Support Fasteners** 

> Generic 12.2.1.1 Manufacturer:

12.2.1.2 Type: Self Drilling Sheet Metal Screw

12.2.1.3 Size: #12 x 3/4"

12.2.1.4 Corrosion Resistance: Zinc Plated

12.2.2 **Panel-to-Panel Stitch Fasteners** 

> Manufacturer: 12.2.2.1 Generic

Self Drilling Sheet Metal Screw 12.2.2.2 Type:

12.2.2.3 Size: #14 x 7/8" 12.2.2.4 Corrosion Resistance: Zinc Plated

> **PRODUCT REVISED** as complying with the Florida **Building Code** NOA-No. 20-1013.10

Expiration Date 03/24/2025

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Miami-Dade Product Control

BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL **ENGINEERING REPORT** CBUCK Engineering

Speciality Structural Engineering CBUCK, Inc. COA #8064 1374 Community Drive Jupiter, FL 33458

(561) 491-9927

MANUFACTURER:

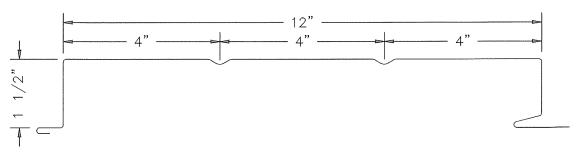
Berridge Manufacturing Company 6515 Fratt Rd.

San Antonio, TX 78218

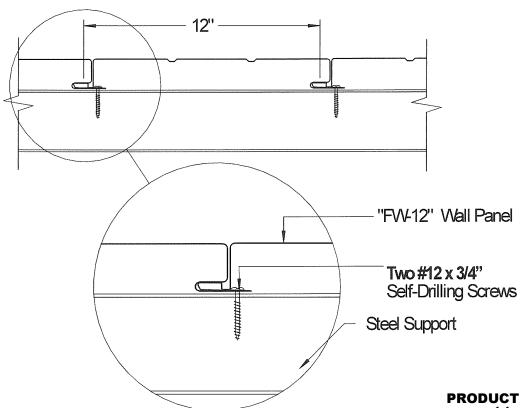
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#### "FW-12" DRAWINGS



#### **TYPICAL PANEL PROFILE**



TYPICAL PANEL ASSEMBLY SECTION VIEW

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1013.10

Expiration Date 03/24/2025

By Miami-Dade Product Control

BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL PROFILE & TYPICAL ASSEMBLY DETAILS



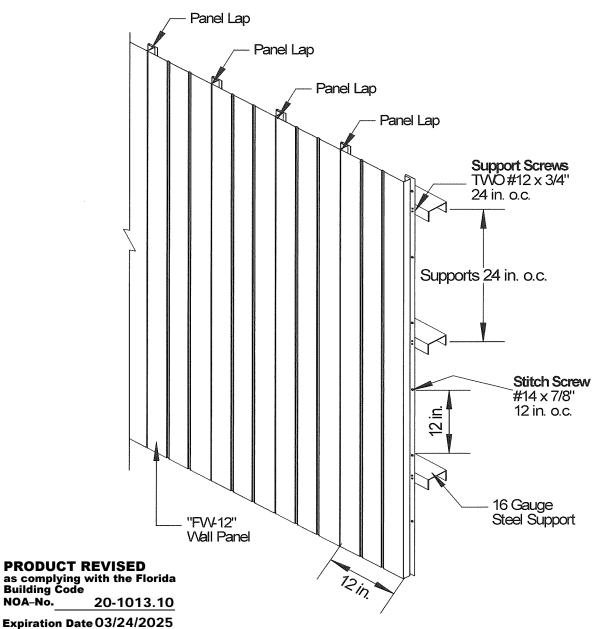
Berridge Manufacturing
Company
6515 Fratt Rd.
San Antonio, TX 78218

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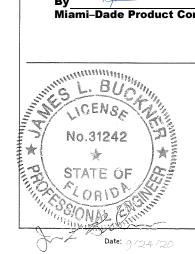
Date: 9/04/00

#### "FW-12" DRAWINGS



By Miami-Dade Product Control

**TYPICAL ELEVATION VIEW OUTSIDE OF WALL ASSEMBLY** 



NOA-No.

BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL TYPICAL WALL ASSEMBLY ELEVATION VIEW

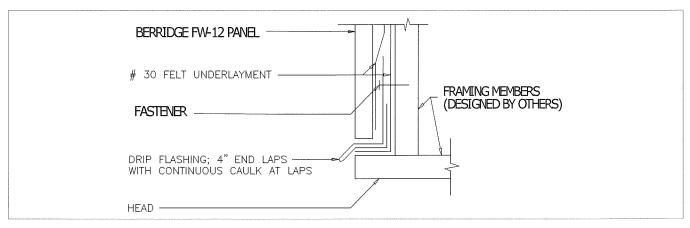
CBUCK Engineering Speciality Structural Engineering CBUCK, Inc. COA #8064 1374 Community Drive Jupiter, FL 33458 (561) 491-9927

MANUFACTURER:

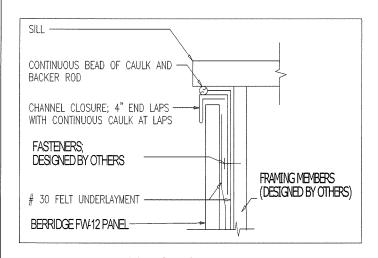
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#### "FW-12" DRAWINGS



TYPICAL HEADER DETAIL



TYPICAL SILL DETAIL

### FRAMING MEMBERS (DESIGNED BY OTHERS) BERRIDGE FW-12 PANEL -# 30 FELT UNDERLAYMENT -FASTENERS: DESIGNED BY OTHERS CHANNEL CLOSURE; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS CONTINUOUS BEAD OF CAULK AND BACKER ROD JAMB -

TYPICAL JAMB DETAIL

# **PRODUCT REVISED** as complying with the Florida Building Code

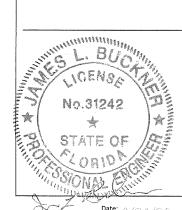
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#### NOTES:

- 1. SUPPLEMENTAL ATTACHMENT DETAILS **DESIGNED BY OTHERS**
- 2. REFER TO MANUFACTURER FOR FASTENER, **CAULKING SPECIFICATIONS &** SUPPLEMENTAL ATTACHMENT DETAILS



#### BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL (SUPPLEMENTAL DETAILS) TYPICAL INSIDE & OUTSIDE CORNER DETAILS

CBUCK Engineering Speciality Structural Engineering CBUCK, Inc. COA #8064 1374 Community Drive Jupiter, FL 33458 (561) 491-9927

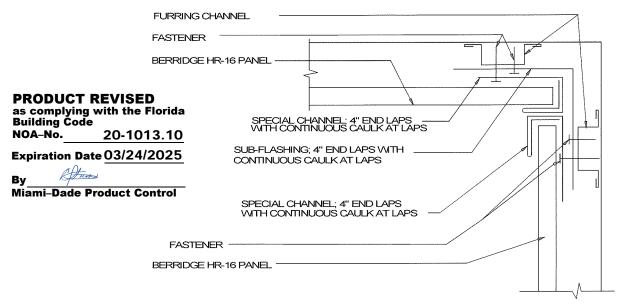
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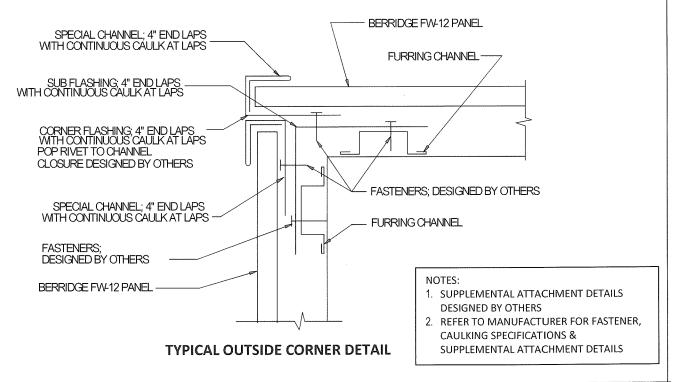
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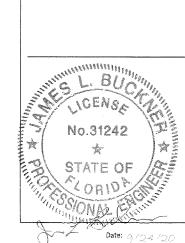
Date: 9/24/20

#### "FW-12" DRAWINGS



#### TYPICAL INSIDE CORNER DETAIL





# BERRIDGE "FW-12" STEEL WALL & SOFFIT PANEL (SUPPLEMENTAL DETAILS) TYPICAL INSIDE & OUTSIDE CORNER DETAILS

CBUCK Engineering
CBUCK, Inc. COA #8064
1374 Community Drive
Jupiter, FL 33458
(561) 491-9927

MANUFACTURER:

Berridge Manufacturing Company 6515 Fratt Rd. San Antonio, TX 78218

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