



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

NOTICE OF ACCEPTANCE (NOA)

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/building

ABET USA, Inc. dba Fiberesin Industries
W 37031 E. Wisconsin Ave.
Oconomowoc, WI 53066

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: Stonewood Concealed Fastener Composite Architectural Wall Panel System

APPROVAL DOCUMENT: Engineering Report & Drawings No. **21-466-wall-Cf-ER**, titled "Stonewood Exterior CF Architectural Panels – Concealed Fastener Wall Panel System", sheets 1 through 21 of 21, dated 07/26/2022, prepared by CBUCK, Inc., signed and sealed by James L. Buckner, P.E., bearing the Miami-Dade County Product Control approval 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 unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



NOA No. 22-0412.05
Expiration Date: December 15, 2027
Approval Date: December 15, 2022
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Engineering Report & Drawings No. **21-466-wall-Cf-ER**, titled “Stonewood Exterior CF Architectural Panels – Concealed Fastener Wall Panel System”, sheets 1 through 21 of 21, dated 07/26/2022, prepared by CBUCK, Inc., signed and sealed by James L. Buckner, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings of Concealed Fastener Exterior Composite Panel System, prepared by Intertek, Test Report No. **M5950.01-201-18 R1**, dated 09/08/2021, revised on 05/20/2022, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on: Mechanical Properties of the Stonewood Architectural Panels per ASTM D4761-13, prepared by Intertek, Test Report No. **103495057MID.002ARO**, dated 08/31/2018, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchors verification calculation, prepared by CBUCK, Inc., dated 11/11/2022, 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. Test reports on Surface Burning Characteristics per ASTM E84-16 of Onyx #125 Firepli: Exterior Cladding ¼ in, prepared by Intertek, Test Report No. **103081745SAT-001A**, dated 05/25/2017, signed and sealed by Vinu J. Abraham, P.E.

F. STATEMENTS

1. Statement letter of code conformance to the 7th edition (2020) of the FBC, dated 03/21/2022, issued by CBUCK, Inc., signed and sealed by James L. Buckner, P.E.
2. Statement letter of no financial interest, dated 10/11/2022, issued by CBUCK, Inc., signed and sealed by James L. Buckner, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 22-0412.05

Expiration Date: December 15, 2027
Approval Date: December 15, 2022

Engineering Report & Drawings
Of

ABET USA, Inc.

"Stonewood Exterior CF Architectural Panels"

Concealed Fastener Wall Panel System

For

Miami-Dade Notice of Acceptance (N.O.A.)

Category: Cladding
Sub - Category: Siding

Prepared by:
James L. Buckner, P.E.
Florida Professional Engineer # 31242

Report No.: 21-446-CF-wall-ER
Date: 07/26/2022

PRODUCT APPROVED
as complying with the Florida
Building Code

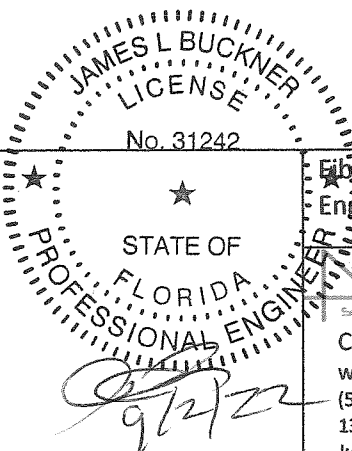
NOA-No. 22-0412.05

Approval Date 12/15/2022

By 
Miami-Dade Product Control

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Fibersin "Stonewood" CF Wall Panel Systems
Engineering Report

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

MANUFACTURER:

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37031 E Wisconsin Ave.
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DATE: 07/26/2022

PAGE #: 1 OF 21

REPORT #: 21-466-wall-Cf-ER

PROJECT #: 20-466

DRAWN BY: JB

REVISIONS:

1.0 Product:

- 1.1 Manufacturer: ABET USA, Inc.
1.2 Product Name: "Stonewood Exterior CF Architectural Panels"
1.3 Category: Cladding
1.4 Subcategory: Siding

2.0 Evaluation Scope:

2.1 Evaluation Criteria:

Florida Building Code (FBC) 7th Edition (2020)
Code Section: High Velocity Hurricane Zone (HVHZ)
Miami-Dade Department Of Regulatory And Economic Resources, Product Control Section
Checklists # 0285

2.2 Properties Evaluated:

Wind Resistance Properties
Uniform Static Air Pressure per TAS 202
Cyclic Wind Pressure per TAS 203

Material Mechanical Properties
ASTM D4761-13

Fire and Flame Properties
Flame Spread Index per ASTM E84
Smoke Developed Index per ASTM E84

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:

Fibersin "Stonewood CF Architectural Panels" are evaluated for use as ventilated exterior wall panels for building cladding or rainscreen applications.

4.0 Assembly Description:

4.1 General:

Fibersin "Stonewood CF Architectural Panels" are manufactured with a phenolic resin-impregnated kraft paper and a face of melamine resin-impregnated decorative pattern, compressed at high pressure and temperature protected by a UV-blocking layer. These panels can be applied in both vertical and horizontal orientation. Panels are anchored to supports with clips, screws and aluminum furring.

4.2 Panel Dimensions:

Height*: 4 ft. (48") Maximum
Width*: 8 ft. (96") Maximum
Evaluated Thickness: 10 mm (3/8")

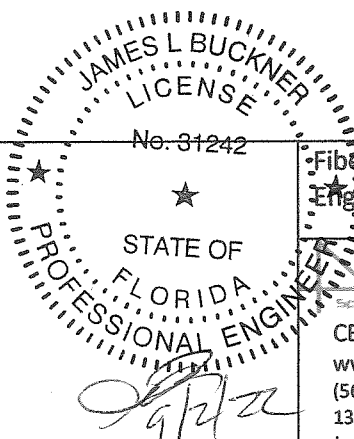
** Height and Width may be reversed depending on the panel orientation.*

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REVISIONS:

5.0 Support:

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

Type: Studs/Girts
Material: Steel
Thickness: 18 Ga. Minimum
Yield Strength: 50 ksi Minimum
Support Spacing: 16" o.c. Maximum

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6.0 Performance:

6.1 Wind Resistance:

Standard: TAS 202 & 203
Design Pressure (ASD): Positive + 70 PSF
Negative - 70 PSF

Notes:

- Design pressures based on support conditions listed in section 5.0 of this report
- Allowable design pressure(s) for allowable stress design (ASD).
- Diaphragm and axial load capacity are not included in this evaluation.

6.2 Cyclic Wind Pressure:

Standard: TAS 203
Results: Passed

6.3 Fire Classification:

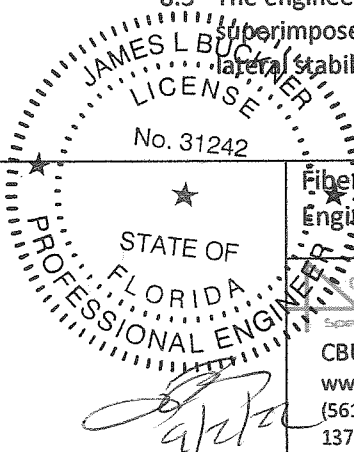
Standard: ASTM E 84
Required Tested
Flame Spread Index: < 75 0
Smoke Developed Index: < 450 10

7.0 Installation:

- Refer to following sections for components information for the CF system addressed in this report.

8.0 Limitations of Use:

- 8.1 The panel supports shall be 18 gauge minimum.
- 8.2 Maximum support spacing shall not be exceeded.
- 8.3 The panels shall be supported by structural framing members complying with the Miami-Dade (Florida High velocity zone) code.
- 8.4 Panel shall not be used as axial load bearing components and shall not be intended / designed to act as a diaphragm.
- 8.5 The engineer of record or architect shall verify that the supporting structure is capable of resisting the superimposed loads from the wall panel system and that the supporting structure is capable of providing lateral stability to carry the wind loads to the building foundation.



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REVISIONS:

9.0 Code Compliance

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

10.0 Identification:

10.1 Each Panel shall bear a permanent label with the manufacturer's name or logo, manufacturing plant's city, state and the statement reading "Miami-Dade County Product Control Approved" is to be located on each panel.

11.0 Reference Data:

11.1 TAS 202 – Uniform Static Air Pressure Test
TAS 203 – Cyclic Wind Pressure Loading.
By: Intertek/Architectural Testing, Inc. (Middleton, WI)
Report No.: M5950.01-201-18-R1; Report Date: 09/08/21

11.2 Material Mechanical Properties

ASTM D 4661 –
By: Intertek/Architectural Testing, Inc. (Middleton, WI)
Report Number: 1034950557MID-002ARO; Report Date: 08/31/18

11.3 ASTM E 84 – Flame Spread Index /Smoke Density

By: Intertek Testing Services NA, Inc. (Elmendorf, TX)
Report Number: 103081745SAT-001A; Report Date: 05/25/17

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12.0 Product Components:

Panel

Identification:	Stonewood Exterior Architectural Wall Panel
Exterior Finishes:	Available in various architectural finishes & profiles.
Core Material:	Phenolic Resin
Surface Material:	Melamine Resin (Hard Thermosetting Plastic)
Core Density:	86 pcf Nominal
Tensile Strength:	10 ksi Minimum (Per ASTM D638)
Flexural Strength:	12 ksi Minimum (Per ASTM D790)
Thickness:	10 mm (3/8")

Extruded Aluminum Vertical "Z" Furring:

Use:	"Z" channel used to create 1" ventilation gap.
Part No.:	XZB
Material:	Aluminum
Alloy:	6005-T5
Nominal Thickness:	0.090"
Nominal Dimension:	1" x 2.255"

Eibersin "Stonewood" CF Wall Panel Systems
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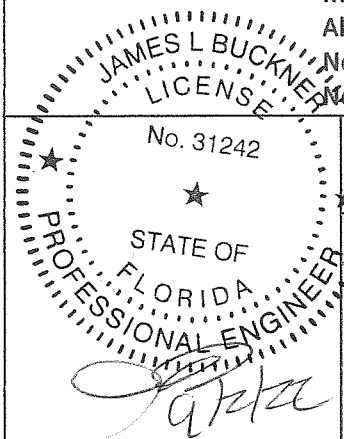
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REVISIONS:



Extruded Aluminum Horizontal "CFRM" Rail:

Use: Horizontal rail that phenolic panels clip to
 Part No.: CFRM
 Material: Aluminum
 Alloy: 6005-T61
 Nominal Thickness: 0.080"
 Nominal Dimension: 2.5" x 10"

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CFCAC - Adjustable Clip Extrusion

Use: Used to Level Panel on CFRM rail
 Part No: CFCAC
 Material: Aluminum
 Alloy: 6005A-T61
 Nominal Thickness: 0.080"
 Nominal Dimension: 2.5" x 2"

CFC5 - Static Clip Extrusion

Use: Used to Attach Panel to CFRM rail
 Part No: CFC5
 Material: Aluminum
 Alloy: 6005A-T61
 Nominal Thickness: 0.080"
 Nominal Dimension: 2.5 x 2"

CFB01 - Rail Cover

Use: Used to Cover CFRM at Joint Location for Black Reveal
 Part No.: CFB01
 Material: Plastic - Prefinished Black
 Nominal Thickness: 0.0625"
 Nominal Dimension: 2.5 x 2.375"

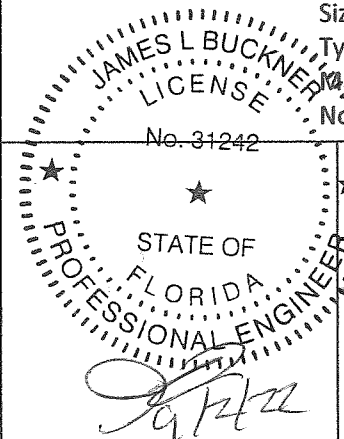
CFF5 - Fastener

Use: Used to Attach CFCAC & CFC5 to Back of Panel
 Size: # 12 x 3/8"
 Type: Thread Forming Fastener
 Material: Stainless Steel

CFCSS - Fastener

Use: Use at one CFCAC Location on Panel- create Fixed Point
 Size: # 12 x 1-5/8".
 Type: Hex Head Self-Drilling Screw
 Material: Stainless Steel
 Nominal Dimension: 1.4 x 2.5

Fiberesin "Stonewood" CF Wall Panel Systems
 Engineering Report



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REVISIONS:

CFCAB - Fastener:

Use: Used at CFCAC Locations to Level Panel on CFRM
 Size: M6 x 20 mm
 Type: Hex Head Bolt
 Material: Stainless Steel

Vertical "Z" Furring Fasteners:

Use: Used to Attach Vertical "Z" to 18 ga Steel Support Studs
 Size: # 12 x 1-1/2"
 Type: Self-Drilling Hex Head Screw
 Material: Zinc Coated Steel

Horizontal "CFRM" Fasteners:

Use: Used to Attach Horizontal CFRM to Vertical "Z"
 Size: # 12 x 1-1/2"
 Type: Self-Drilling Hex Head Screw
 Material: Zinc Coated Steel

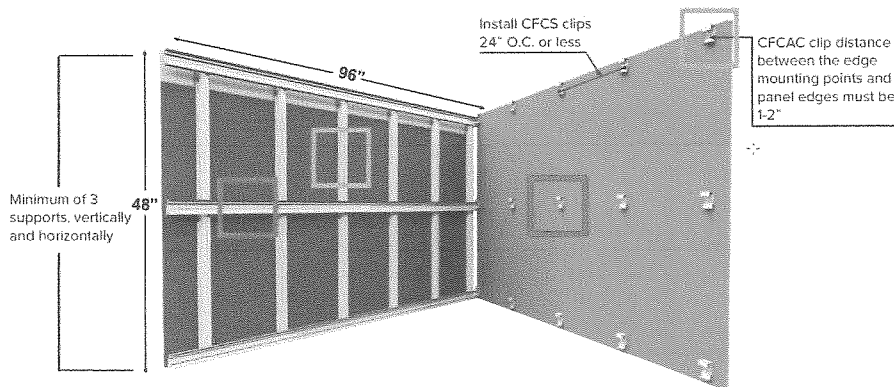
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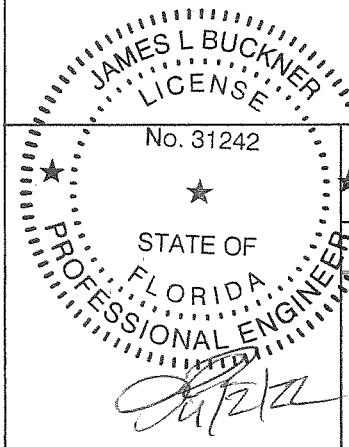
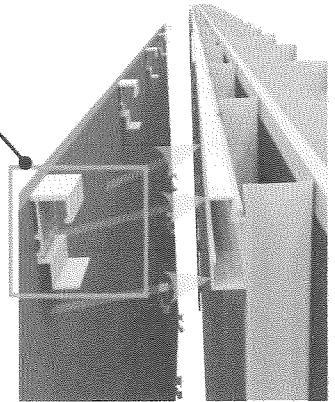
By *[Signature]*
 Miami-Dade Product Control

ABET USA, INC.

"Stonewood Exterior CF Architectural Panels"
INSTALLATION DRAWINGS



Attach panel
 to CFRM rail
 using CFCAC
 clips. Level the
 panel using the
 leveling screw.
 Secure **one clip**
 using set screw.



Fibersin "Stonewood" CF Wall Panel Systems
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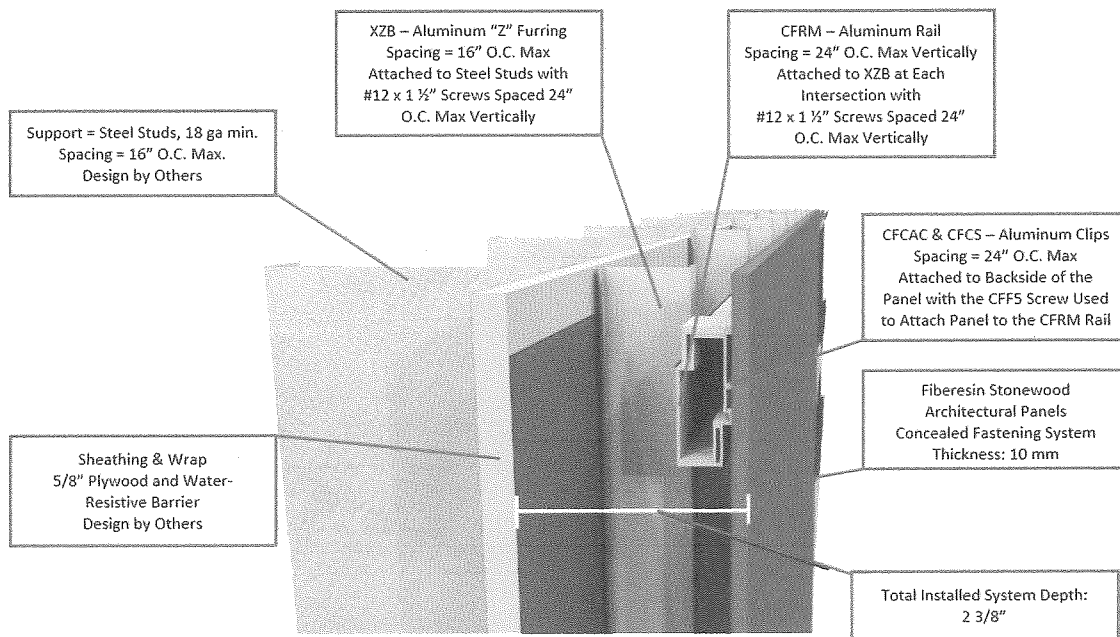
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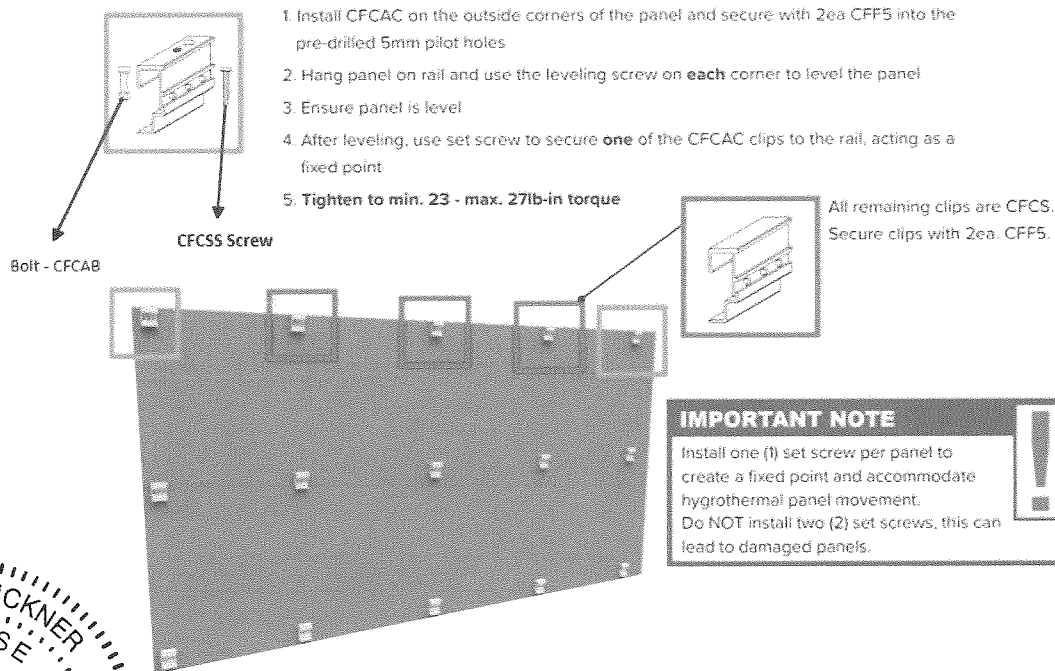
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ABET USA, INC.

"Stonewood Exterior CF Architectural Panels"
INSTALLATION DRAWINGS



Required Clip Installation Sequence



Fibersin "Stonewood" CF Wall Panel Systems
Engineering Report

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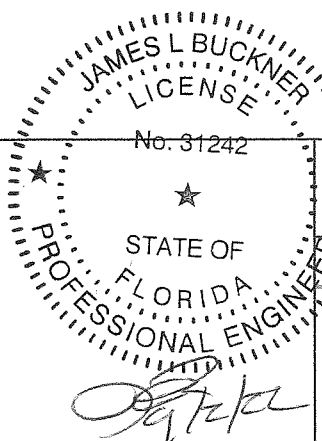
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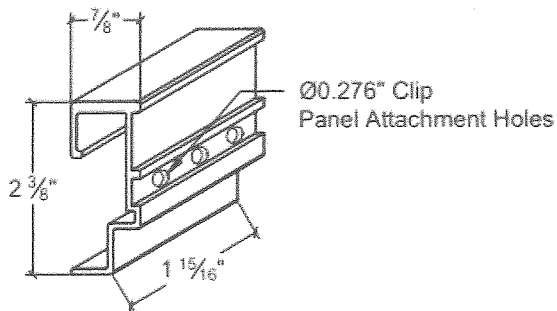
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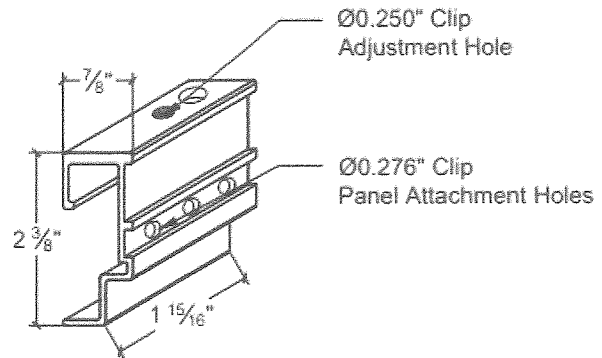
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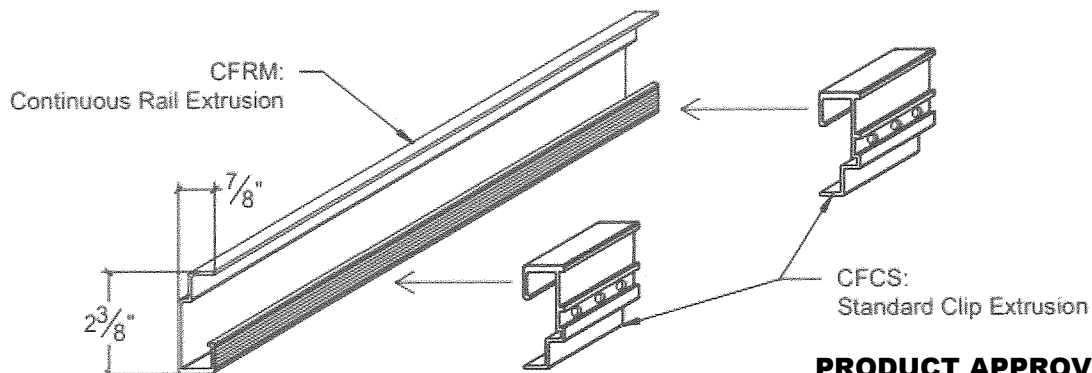




CFCS:
Static Clip Extrusion
Structural Grade Aluminum Alloy
Factory Mill Finished



CFCAC:
Adjustable Clip Extrusion
Structural Grade Aluminum Alloy
Factory Mill Finished
Required at Upper Left and Right Corners of Panels



CFRM:
Continuous Rail Extrusion
Structural Grade Aluminum Alloy
Factory Mill Finished

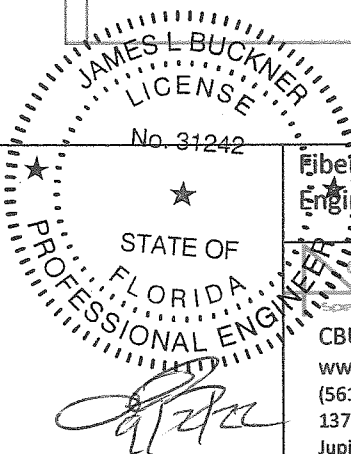
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By *[Signature]*
Miami-Dade Product Control

01 Concealed Fastener System Parts Catalog
DET



**FiberResin "Stonewood" CF Wall Panel Systems
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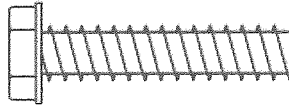
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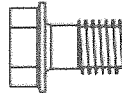
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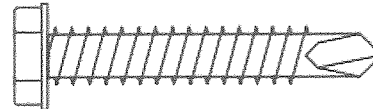
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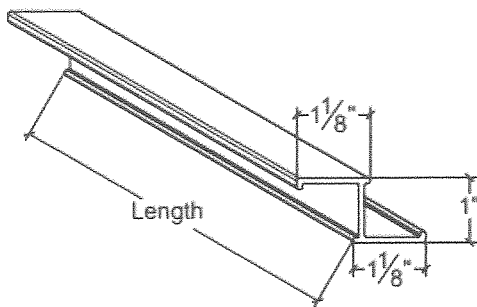
CFCAB:
Adjustable Leveling Bolt
Every CFCAC Clip Includes One



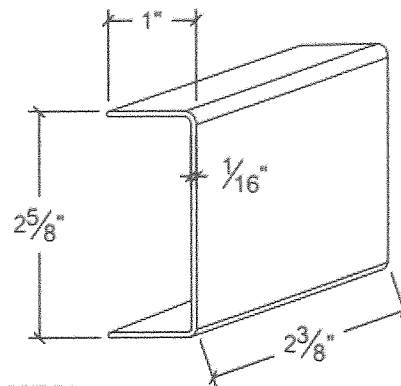
CFF5:
Clip Fastener, 2 per Panel Clip (CFCS & CFCAC)
Used to Attach Clips to Stonewood Panels



CFCSS:
Adjustable Panel Attachment Clip Set Screw
Every CFCAC Clip Includes One
Use Only 1 per Panel



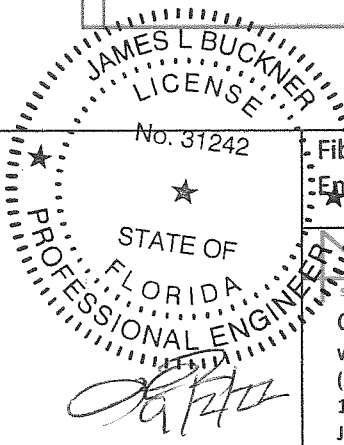
XZB - Vertical Attachment Furring
Structural Grade Aluminum Alloy Extrusion
Factory Finished Black



CFB01:
Rail Cover, 1/16" Plastic, Prefinished Black
Provided in 2-3/8" Lengths
Applied to CFRM Panel Rails at Vertical Joints



Concealed Fastener System Parts Catalog



Fibersin "Stonewood" CF Wall Panel Systems
Engineering Report

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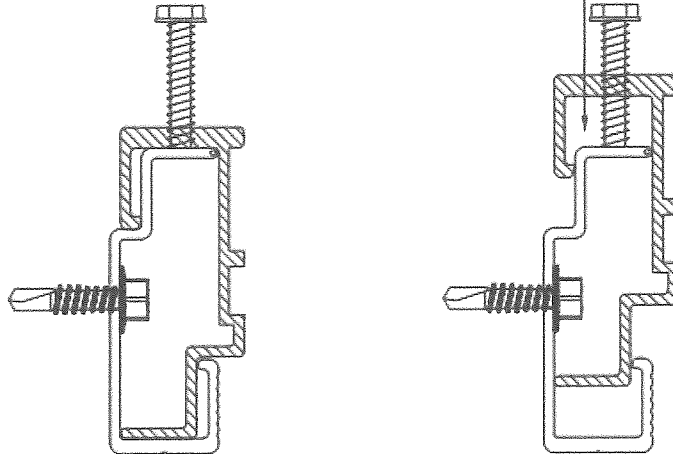
PROJECT #: 20-466

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REVISIONS:

Assembled CFRM Carrier Rail And CFCAC Clip & Adjustability

APPROX. $\frac{1}{2}$ " [12mm] ADJUSTABILITY



Use CFCAB Adjustable Panel Attachment Clip Bolt to Adjust Panel for Level in Top Corners of Panels

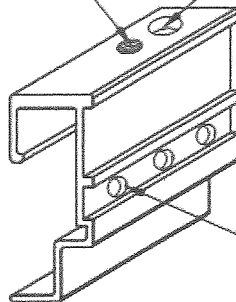
Use CFCSS Adjustable Panel Attachment Clip Set Screw to Secure Clip to Rail
Only Use 1 CFCSS per Panel

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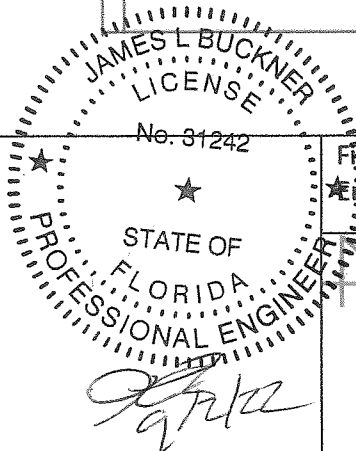
By *[Signature]*
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Use CFF5
2 per Panel Clip (CFCS & CFCAC)



Concealed Fastener System Parts Catalog



Fibersin "Stonewood" CF Wall Panel Systems
Engineering Report

CBUCK Engineering
Specialty Structural Engineering
CBUCK, Inc. COA #8064
www.cbuckinc.net
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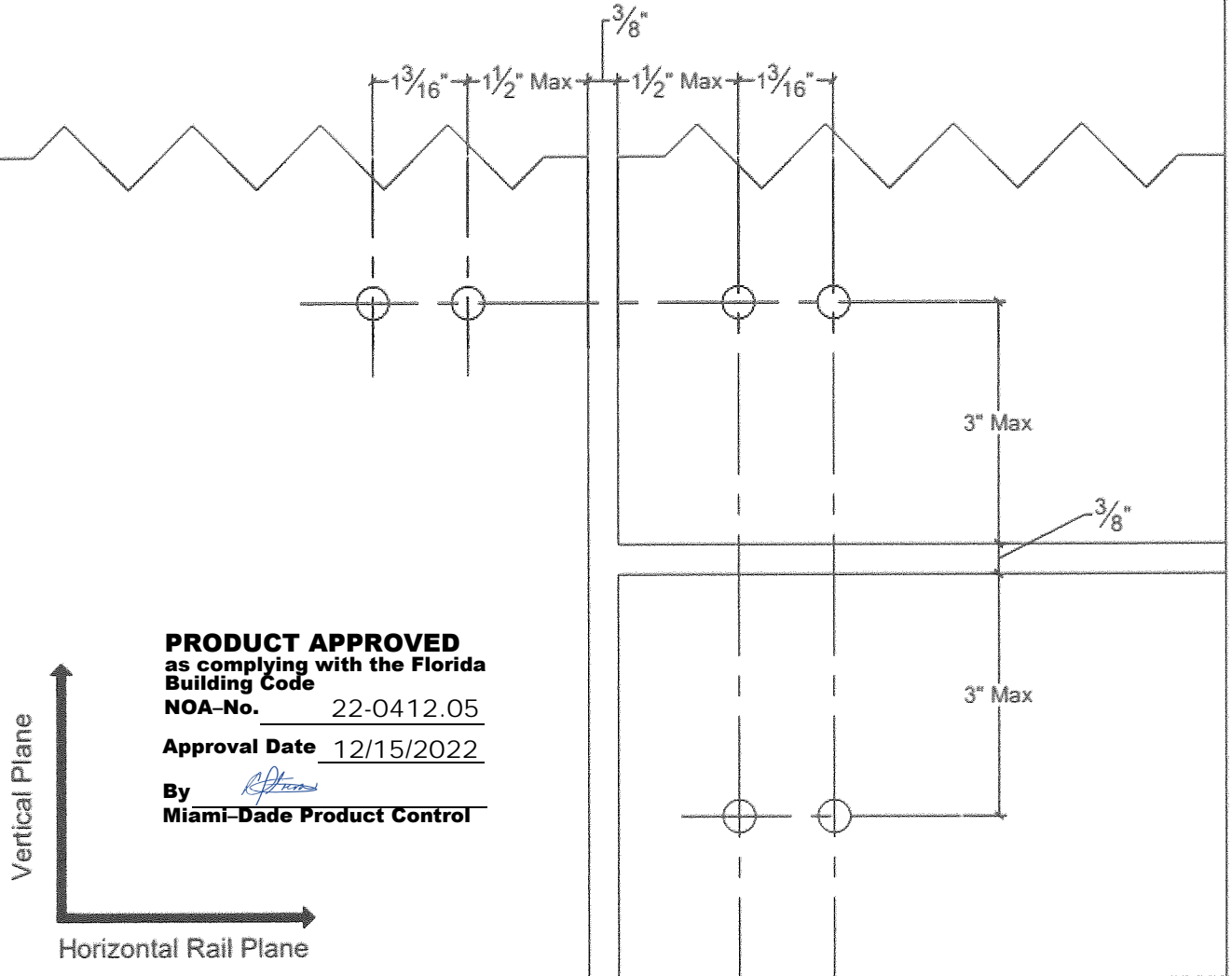
REVISIONS:

DRILLING KEY FOR CF PARTS:

HOLE DIAMETER = 5mm or $\frac{13}{64}$ " \varnothing Hole

DRILL HOLE DEPTH = 7mm or $\frac{9}{32}$ "

MAX HOLE SPANS = 24" O.C. Vertically and Horizontally



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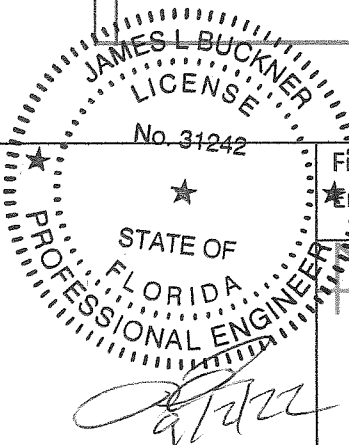
Vertical Plane

Horizontal Rail Plane

04

Concealed Fastener System Parts Catalog

DET



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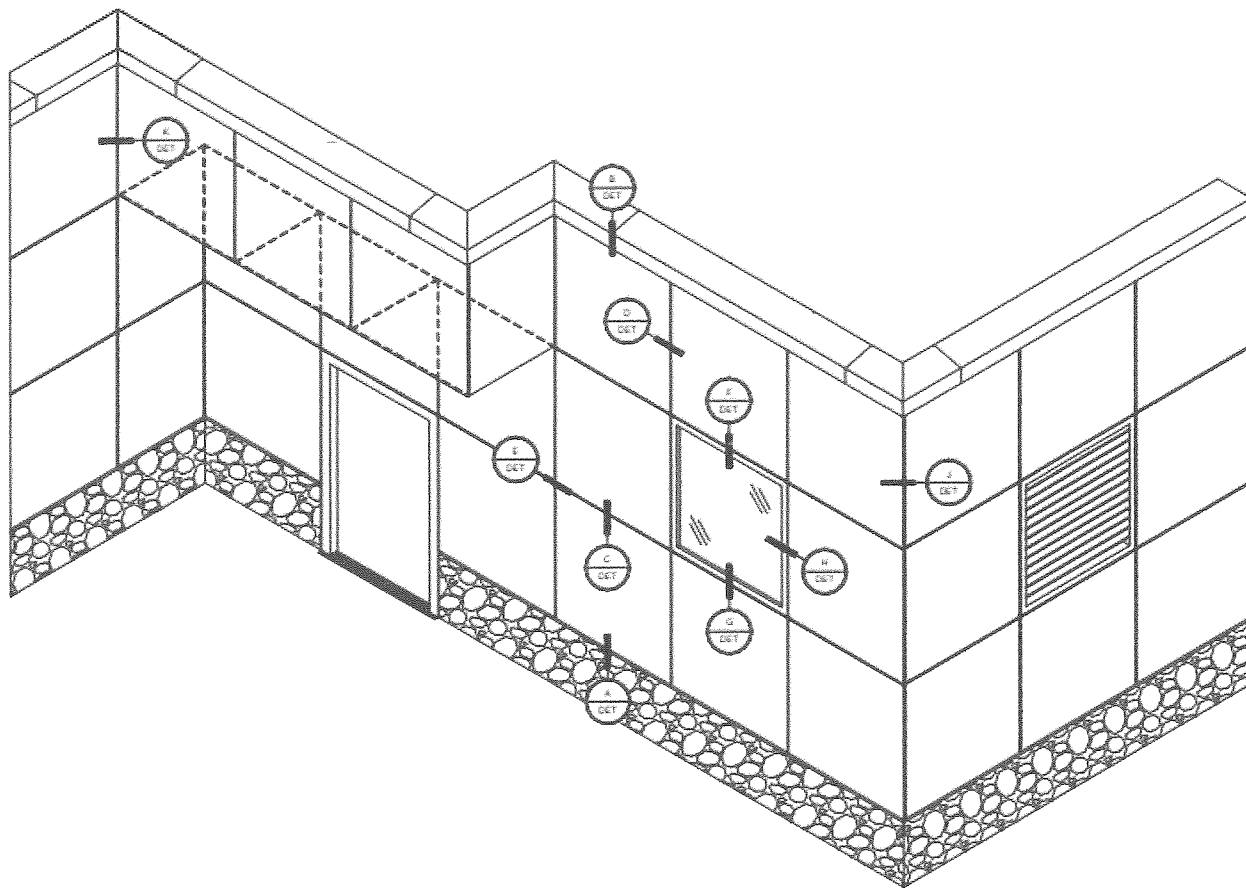
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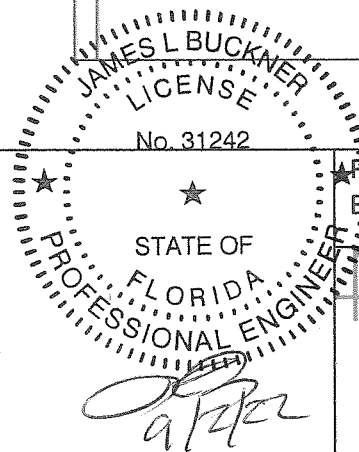


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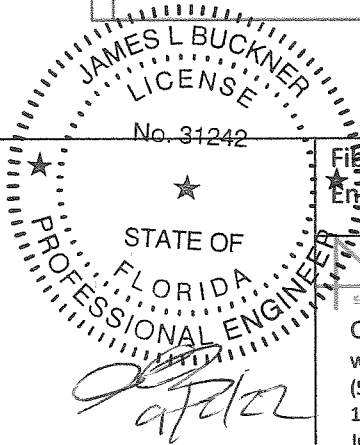
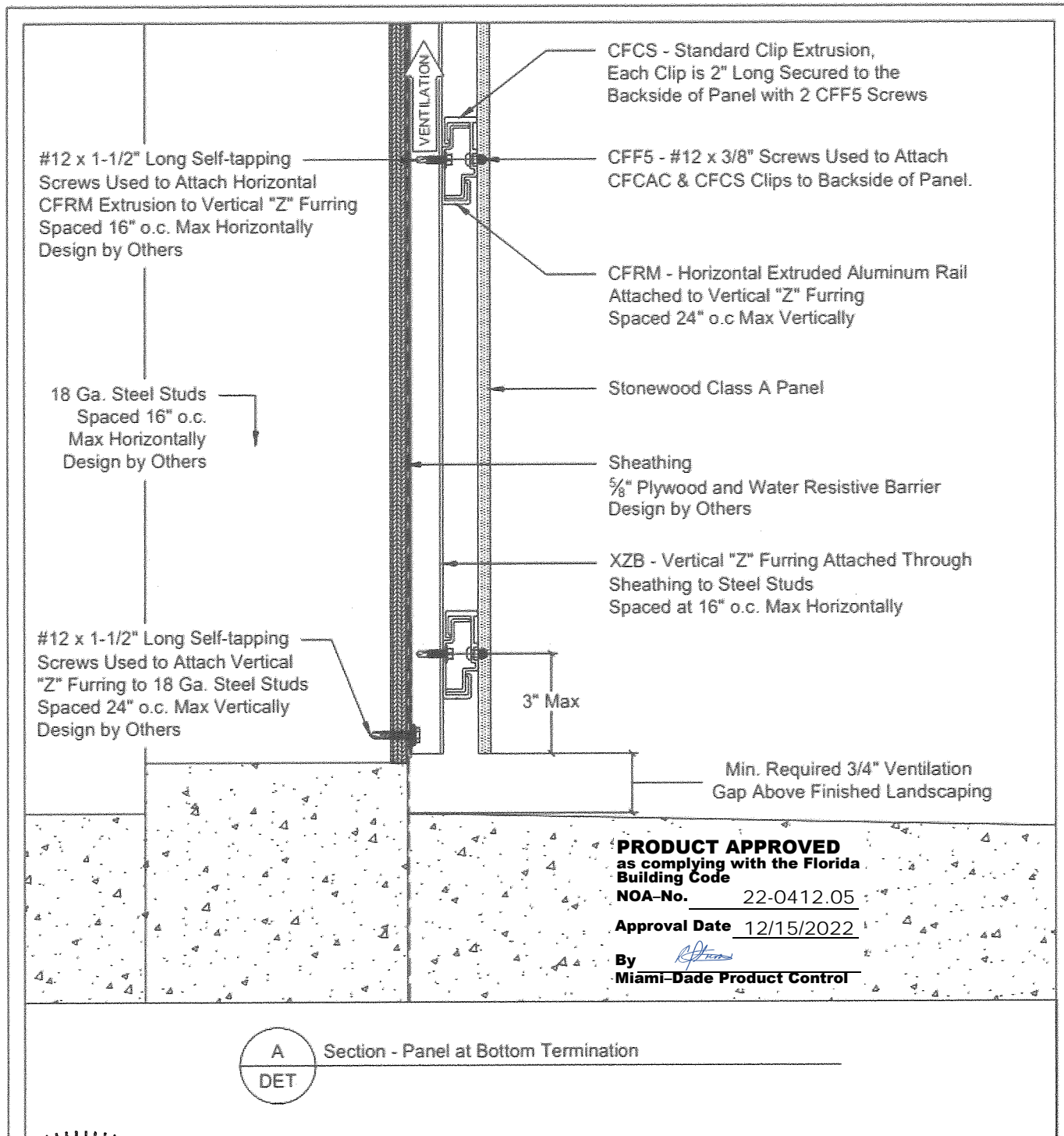
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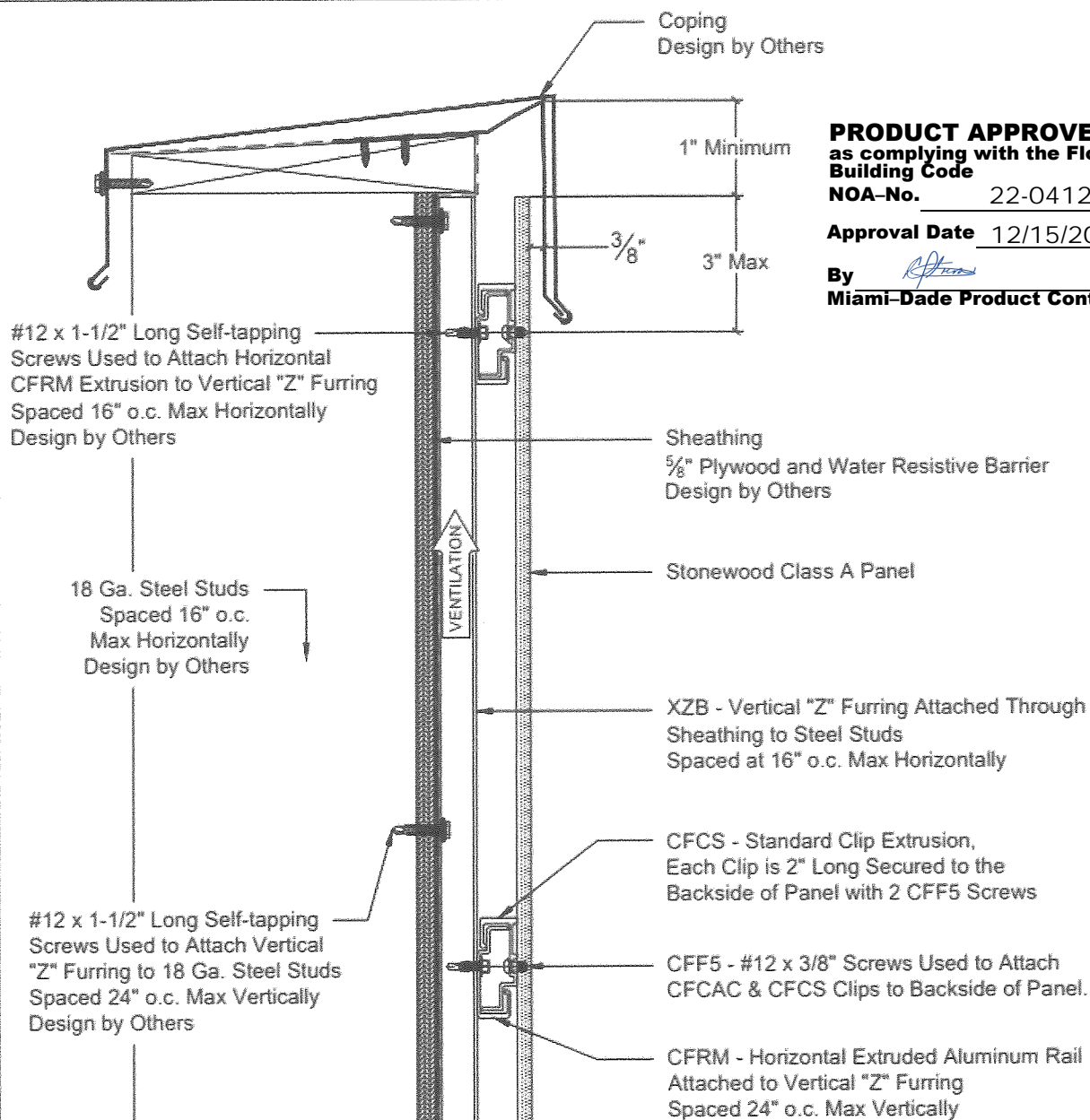
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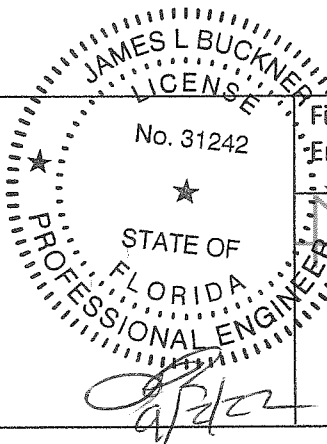
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B
DET Section - Panel at Top Termination



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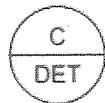
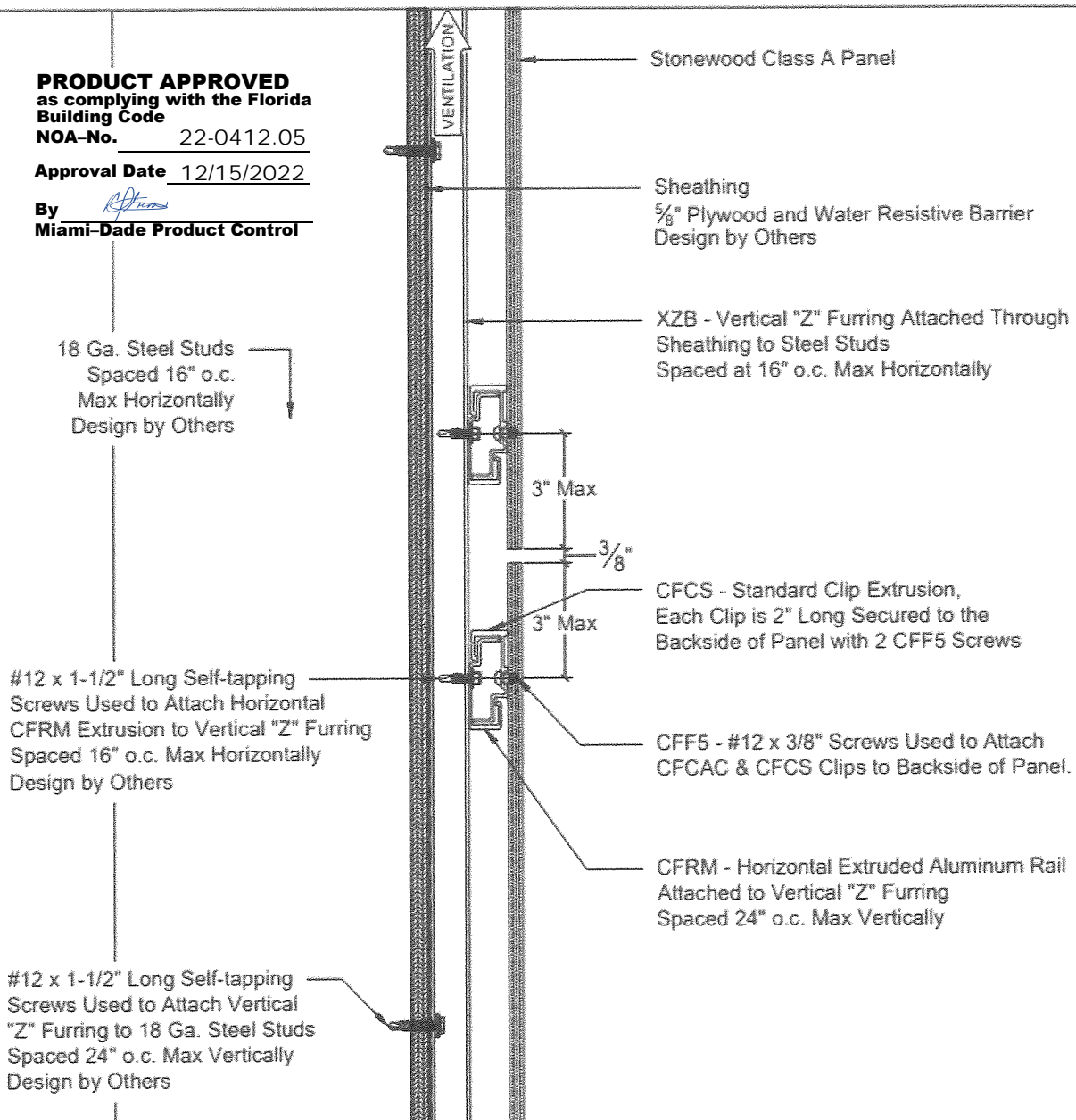
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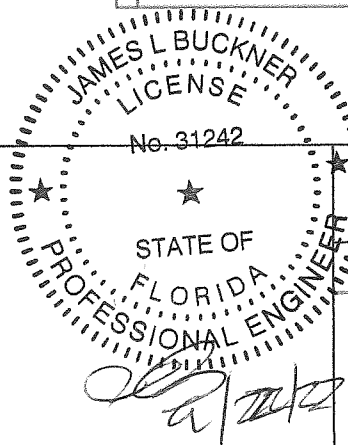
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Section - Panel at Horizontal Joint



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#12 x 1-1/2" Long Self-tapping
Screws Used to Attach Horizontal
CFRM Extrusion to Vertical "Z" Furring
Spaced 16" o.c. Max Horizontally
Design by Others

Install CFCAC On the Top
Corners of the Panels. Only
Install 1 CFCSS per Panel to
Create a Fixed Point.

#12 x 1-1/2" Long Self-tapping
Screws Used to Attach Vertical
"Z" Furring to 18 Ga. Steel Studs
Spaced 24" o.c. Max Vertically
Design by Others

18 Ga. Steel Studs
Spaced 16" o.c.
Max Horizontally
Design by Others

Sheathing
5/8" Plywood and
Water Resistive
Barrier
Design by Others

XZB - Vertical "Z" Furring Attached
Through Sheathing to Steel Studs
Spaced at 16" o.c. Max Horizontally

CFB01 - Rail Cover
1/16" Black Plastic

CFCAB - Adjustable Leveling Bolt
10 mm x 3/4" Long Hex Head
Used to Level Panel on Horizontal Rail

1 1/2" Max
1 1/2" Max
3/8"

CFCSS - Adjustable Panel Attachment
Clip Set Screw #12 - 1-5/8" Long Hex Head
Used to Create a Fixed Point
1 CFCSS is Used per Panel in Top Corner

Stonewood Class A Panel

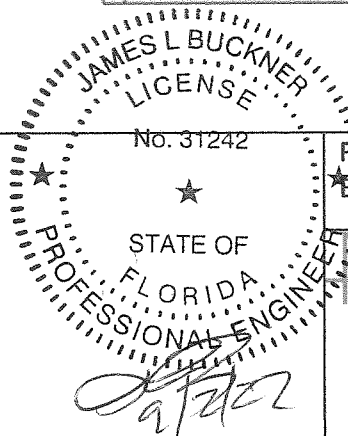
CFRM - Horizontal Extruded
Aluminum Rail Attached to
Vertical "Z" Furring
Spaced 24" o.c. Max Vertically

CFF5 - #12 x 3/8" Screws Used to Attach
CFCAC & CFCSS Clips to Backside of Panel.

CFCAC - Adjustable Clip Extrusion,
Each Clip is 2" Long Secured to the
Backside of Panel with 2 CFF5 Screws



Plan - Panel at Fixed Point at Top Corner



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REVISIONS:

#12 x 1-1/2" Long Self-tapping
Screws Used to Attach Horizontal
CFRM Extrusion to Vertical "Z" Furring
Spaced 16" o.c. Max Horizontally
Design by Others

18 Ga. Steel Studs
Spaced 16" o.c.
Max Horizontally
Design by Others

#12 x 1-1/2" Long Self-tapping
Screws Used to Attach Vertical
"Z" Furring to 18 Ga. Steel Studs
Spaced 24" o.c. Max Vertically
Design by Others

VENTILATION

CFCS - Standard Clip Extrusion,
Each Clip is 2" Long Secured to the
Backside of Panel with 2 CFF5 Screws

CFF5 - #12 x 3/8" Screws Used to Attach
CFCAC & CFCS Clips to Backside of Panel.

CFRM - Horizontal Extruded Aluminum Rail
Attached to Vertical "Z" Furring
Spaced 24" o.c. Max Vertically

Stonewood Class A Panel

Sheathing
5/8" Plywood and Water Resistant Barrier
Design by Others

XZB - Vertical "Z" Furring Attached Through
Sheathing to Steel Studs
Spaced at 16" o.c. Max Horizontally

3" Max

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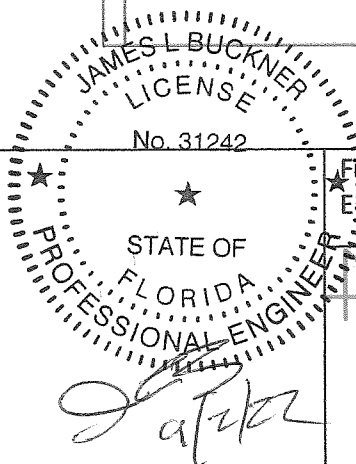
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Window System
Design by Others



Section - Panel at Window Header



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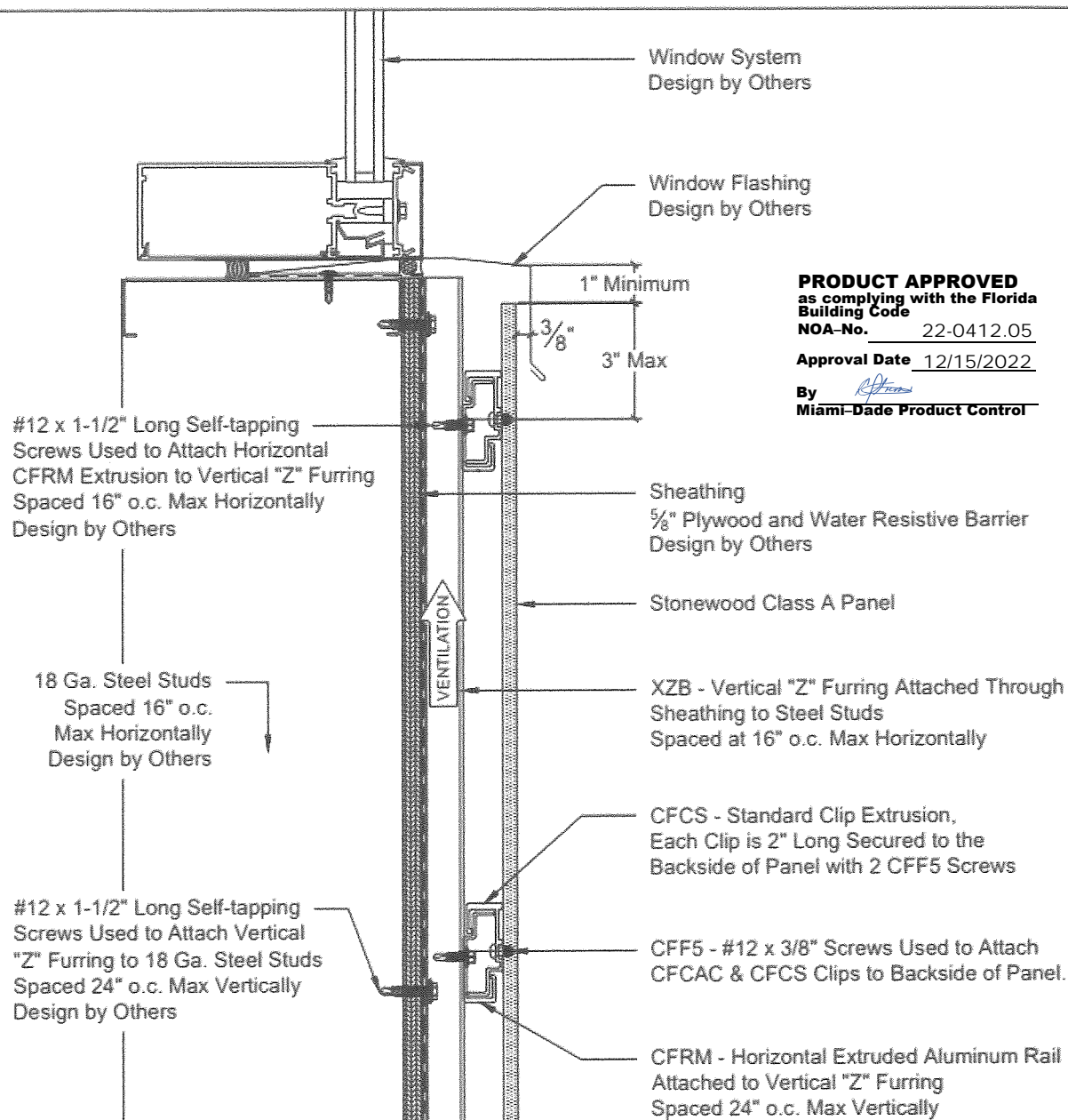
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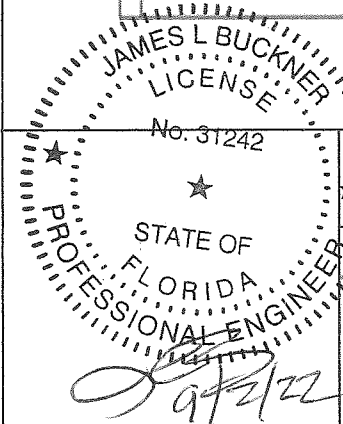
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G Section - Panel at Window Sill
DET



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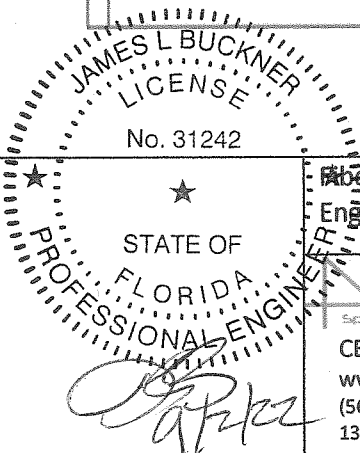
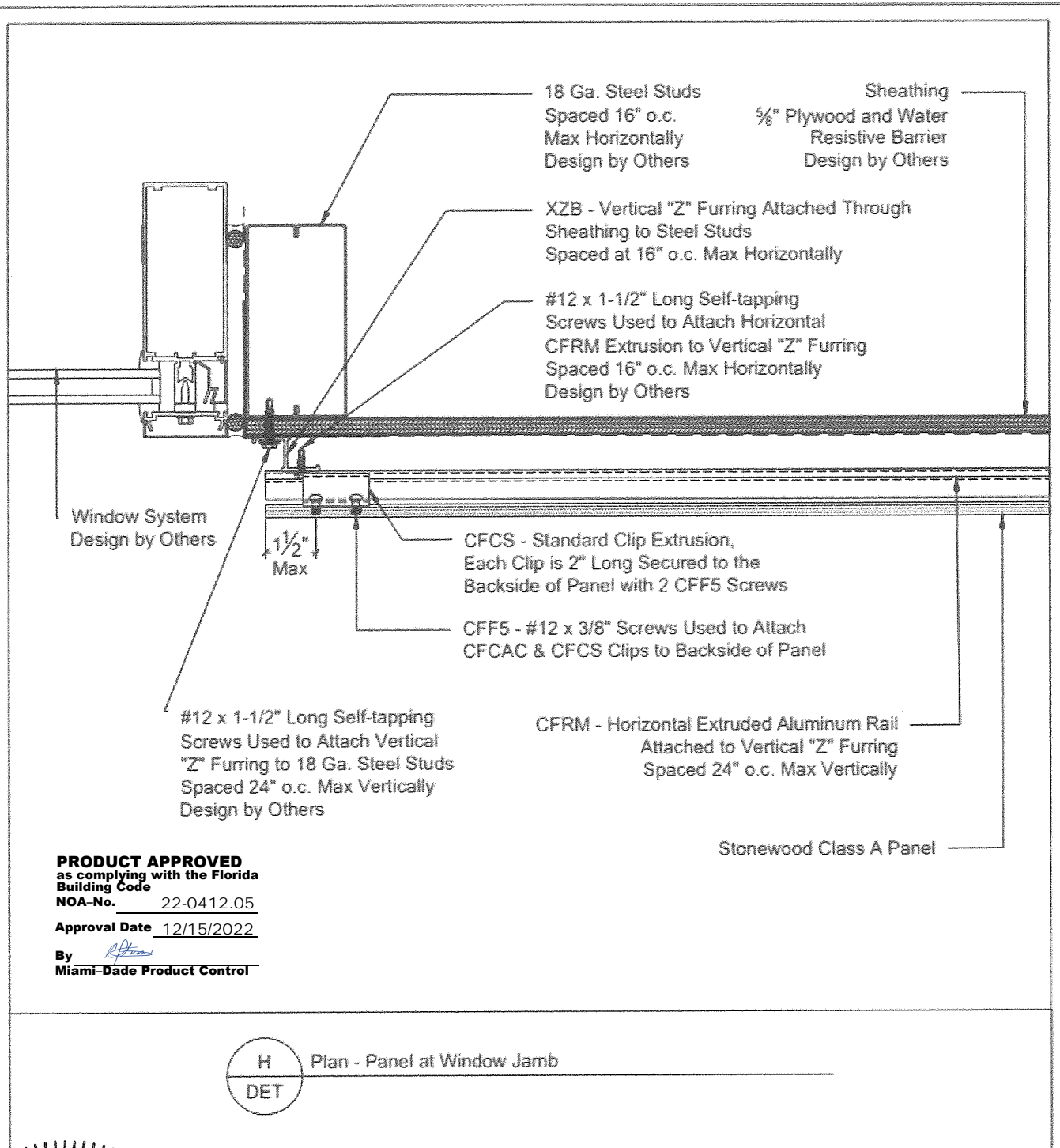
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REVISIONS:	

#12 x 1-1/2" Long Self-tapping
Screws Used to Attach Vertical
"Z" Furring to 18 Ga. Steel Studs
Spaced 24" o.c. Max Vertically
Design by Others

XZB - Vertical "Z" Furring Attached
Through Sheathing to Steel Studs
Spaced at 16" o.c. Max Horizontally

#12 x 1-1/2" Long Self-tapping
Screws Used to Attach Horizontal
CFRM Extrusion to Vertical "Z" Furring
Spaced 16" o.c. Max Horizontally
Design by Others

18 Ga. Steel Studs
Spaced 16" o.c.
Max Horizontally
Design by Others

24" Max

3/8"

1 1/2"
Max

CFCS - Standard Clip Extrusion,
Each Clip is 2" Long Secured to the
Backside of Panel with 2 CFF5 Screws

CFF5 - #12 x 3/8" Screws Used to Attach
CFCAC & CFCS Clips to Backside of Panel

24" Max

Sheathing
5/8" Plywood and Water Resistive Barrier
Design by Others

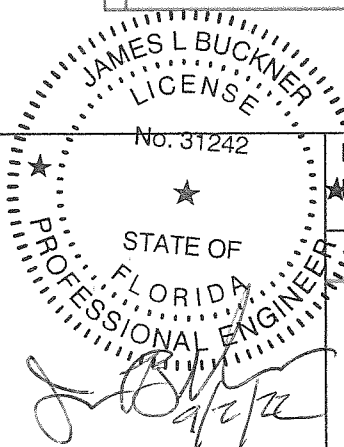
Stonewood Class A Panel

CFRM - Horizontal Extruded Aluminum
Rail Attached to Vertical "Z" Furring
Spaced 24" o.c. Max Vertically

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Plan - Panel at Inside Corner



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