

EC-250 System Rain Screen Aluminum Wall Panel System

Manufacturer

East Coast Metal Systems

625 Distribution Road
Triadelphia, WV 26059

for

Florida Product Approval

FL 48289.1

Florida Building Code 8th Edition (2023), HVHZ Code Section

Per Rule 61G20-3

Method: 1 – D

Category: Panel Walls

Sub - Category: Siding

Product Assembly Name: EC-250

Material Description: Aluminum Wall Panel System

Support Type: Steel Studs

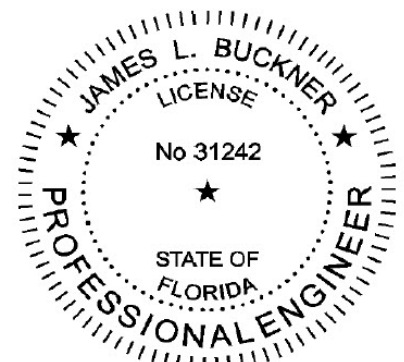
This item has been digitally signed and sealed by James L. Buckner, P.E., on this date below. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Prepared by:

James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Report No. 01_26-835.01.3-EC250-HZ-ER
Date: 06/27/2026

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James L. Buckner, P.E.
FL31242

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CBUCK, Inc. – Palm Beach County, Florida

Phone: (561) 491-9927 · Email: cbuck@cbuckinc.net · Website: www.cbuckinc.net

Main Office: 1374 Community Drive, Jupiter, Florida 33458

1.0 Product

Manufacturer: East Coast Metal Systems
625 Distribution Road
Triadelphia, WV 26059
(800) 345-6755

Product Name: EC-250 System

2.0 Evaluation Scope:

Evaluation Criteria:

Florida Building Code 8th Edition (2023)

Code section: High Velocity Hurricane Zone (HVHZ)

Wind Resistance: Wall FBC 8th sec 1403.3

Guideline Reference: M-D check list #250 (Metal Panel, Siding & Soffit)

Evaluation Method:

Florida Product Approval Rule 61G20-3.005 (1) (D)

Evaluation Classification:

Category: Panel Walls

Sub Category: Siding

Properties Evaluated

Structural (Wind Resistance) Properties

Limits of Evaluation:

This product assembly evaluation is limited to compliance with section 2.0 s

3.0 Evaluated Uses:

The EC-250 system is designed for use as Siding and Soffit.

4.0 Product Assembly Description:

General:

The EC-250 is a formed aluminum panel, exterior rain screen, pressured equalized wall system, with dry-joints. Weep holes provide water drainage. The EC-250 aluminum panels are mounted using aluminum extrusions, to a steel stud structural support system . (support system design is not part of this Report) . Panel Joints have a color matched strip in a reveal.

5.0 General Assembly as Evaluated:

EC-250 Aluminum Plate Panel

Aluminum Extrusions / Sub-framings

attached to Support System: Steel Stud & flat steel type furring Supports designed by others

6.0 Evaluated Support Description:

Type: * Vertical Studs
Material: Steel
Steel Thickness: 12 Ga. Minimum
Yield Strength: 50 ksi Minimum
Spacing: 16 inches o.c.

Type: * Horizontal 6 inch Flat Profile continuous furring
Material: Steel
Steel Thickness: 12 Ga. Minimum
Yield Strength: 50 ksi Minimum
Spacing: Nominal 4 ft o.c. at panel joints

*System Orientation: The system may be rotated

(Design of support system is outside the scope of this evaluation)

7.0 Structural Performance:

Wind Resistance: Allowable Design Pressure per Test Standard TAS 202 & TAS 203
Positive + 67 PSF
Negative - 67 PSF

Notes:

- Positive Pressure Inward, Negative Pressure Outward
- Allowable design pressure (s) for allowable stress design (ASD) with a margin of safety

8.0 Performance Standard:

The following test protocols were performed to demonstrate compliance with the code:

TAS 202-94 Uniform Static Air Pressure Test

TAS 203-94 Cyclic Wind Pressure Loading Test

9.0 Code Compliance:

The product described herein has demonstrated compliance with the

Florida Building Code 8th Edition (2023), High Velocity Hurricane Zone (HVHZ)

per FBC 8th section 1708.2 and Method 1-D per Rule 61G20-3.005 (1) (D)

10.0 Limitations and Conditions of Use:

Labeling: East Coast Metal Systems Components and/or packageing, shall be labeled with the manufacture's name or Logo and address and model name "EC-250", per NOA HVHZ Labeling Guidelines (Rev 04/21/26).

All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of FBC 8th HVHZ.

Design of support system is outside the scope of this report. Support shall be structural framing members complying with FBC Chapter 22 for steel and Chapter 16 for structural loading and shall be designed by others.

Diaphragm and axial load capacity is outside the scope of this evaluation.

Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation

Scope of "Limitations and Conditions of Use" for this evaluation:

This evaluation report for "State 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 "State 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.

11.0 Quality Assurance:

The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Farabaugh Engineering and Testing, Inc.** (FBC Organization #: QUA 7733).

12.0 Components

12.1 Panel:

"EC-250"

- Type: Formed Aluminum Plate Panel
- Overall Dimensions: Nominal 4 ft x 4ft and/or 4 ft x 8 ft
- Thickness: 0.125 inch (1/8 inch)
- Plate Alloy: Painted Finish: 3003-H14 or 3105-H14
Anodized Finish: 5005-H34

12.2 Aluminum Extrusion

- Part #: EC 201
- Material: Aluminum (Extruded)
- Alloy: 6063-T5 or 6061-T6

12.3 Aluminum Extrusion

- Part #: EC 202
- Material: Aluminum (Extruded)
- Alloy: 6063-T5 or 6061-T6

12.4 Aluminum Extrusion

- Part #: EC 203
- Material: Aluminum (Extruded)
- Alloy: 6063-T5 or 6061-T6

12.5 Fastener #1:

- Type: Self-Drilling Screws
- Material: Corrosion Resistance -HVHZ Code
- Size: # 1/4-14 x 1" Minimum
- Spacing: 8" o.c. Maximum & refer to drawings

12.6 Fastener #2:

- Type: Self-Drilling Screws
- Material: Corrosion Resistance -HVHZ Code
- Size: # 12 -14 x 1" Minimum
- Spacing: refer to detail section drawings

12.7 ACM Reveal:

- Type: Aluminum Strip
- Material: Aluminum Faces
- Dimension: Height: 1/2" minimum
Width: Varies with panel width
- Location: at panel to panel Joints

13.0 Installation Method:

"EC-250" System shall be installed in compliance with the installation method listed in this report and applicable code sections of FBC 8th Edition (2023)HVHZ . 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.

(Refer to installation pages that follow in this report)

14.0 Evaluation Reference Data:

TAS 201-94 Uniform Static Air Pressure Test

TAS 203-94 Cyclic Wind Pressure Loading

By Farabaugh Engineering and Testing Inc (FBC Organization ID# TST 1654)
Report No.T308-25(1), Date: 5/26/25

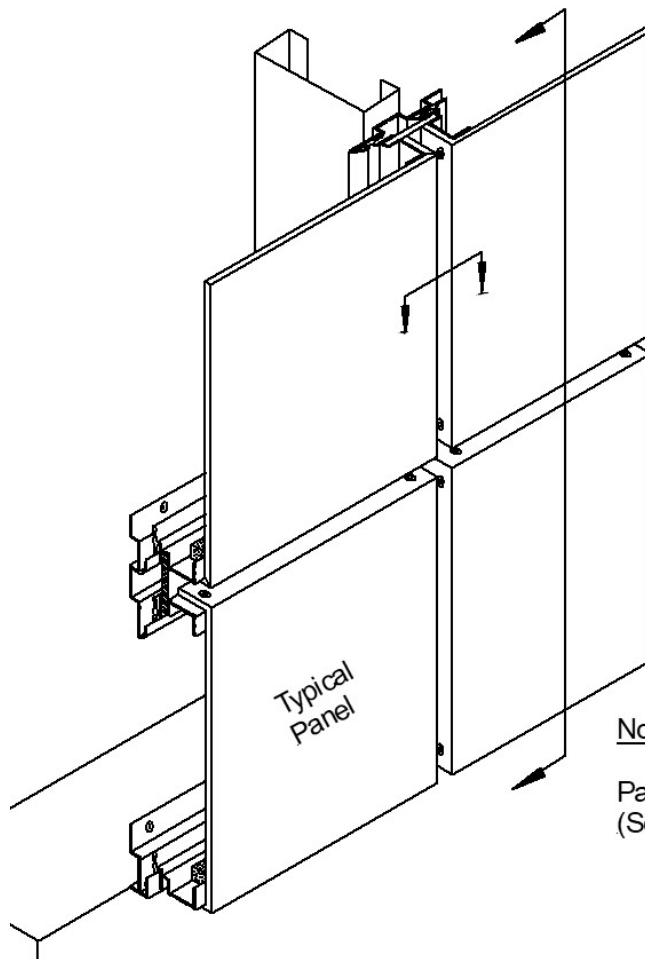
Quality Assurance

Farabaugh Engineering and Testing, Inc. (FBC Organization #: QUA 7733)

Certification of Independence

By James L. Buckner, P.E. @ CBUCK Engineering
(FBC Organization # ANE 1916)

Installation Method East Coast Metal Systems "EC-250" Panel System Attached to Steel stud Support System

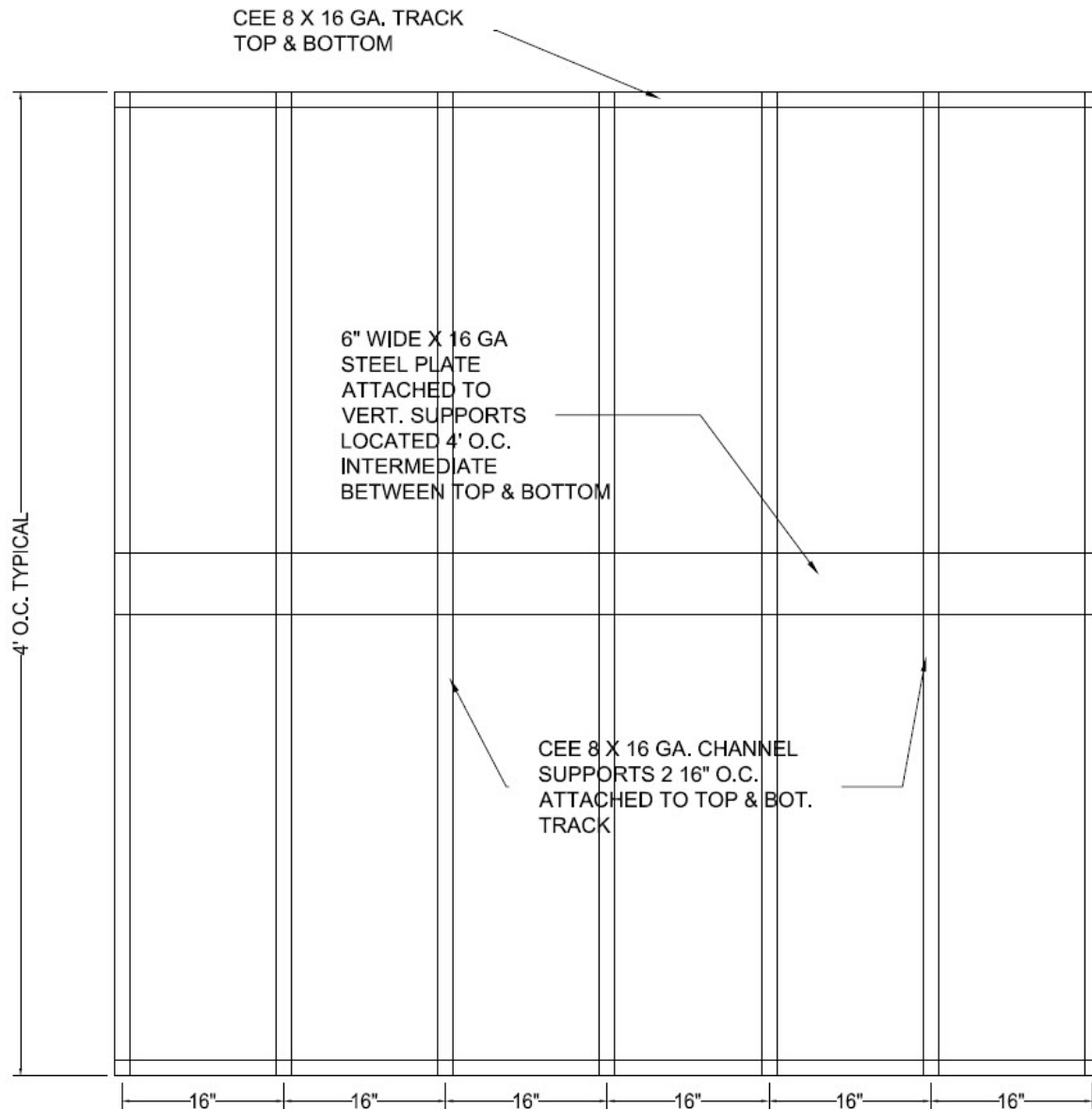


Note:

Panel Stiffeners are Factory Installed
(See Page 5 of 8 for description)

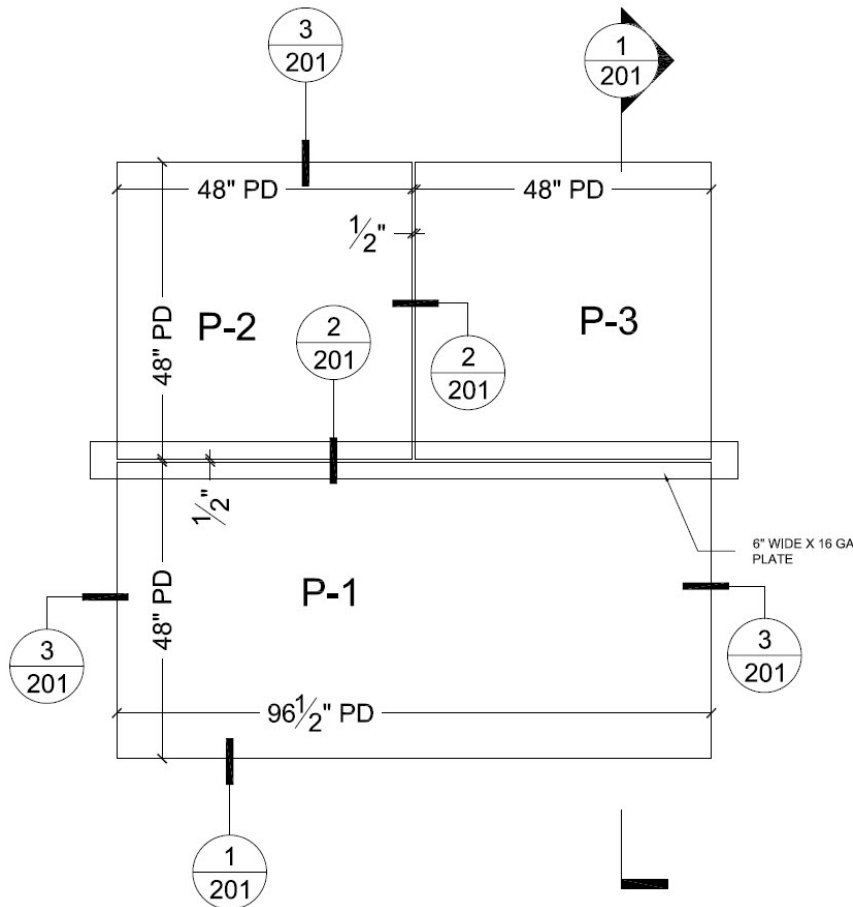
Wall System Assembly
(Not To Scale)

Installation Method East Coast Metal Systems "EC-250" Steel Support System

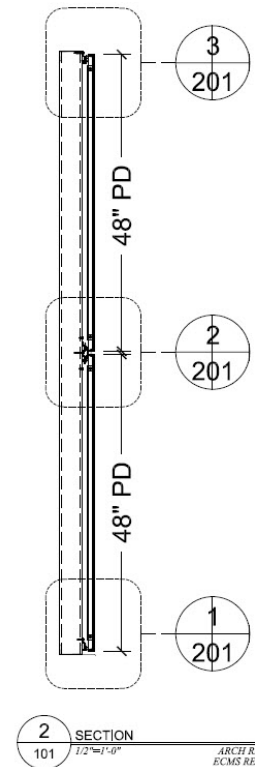


Support System - Steel Stud & Steel 6 inch Flat Profile Furring
Component specifications are minimum
Support System to be designed by others for each project

Installation Method East Coast Metal Systems "EC-250" Elevation View



1 TYPICAL ELEVATION - PANELS 4'X4' AND/OR 4'X8'
 101 1/2"=1'-0" ARCH REF: ECMS REF:

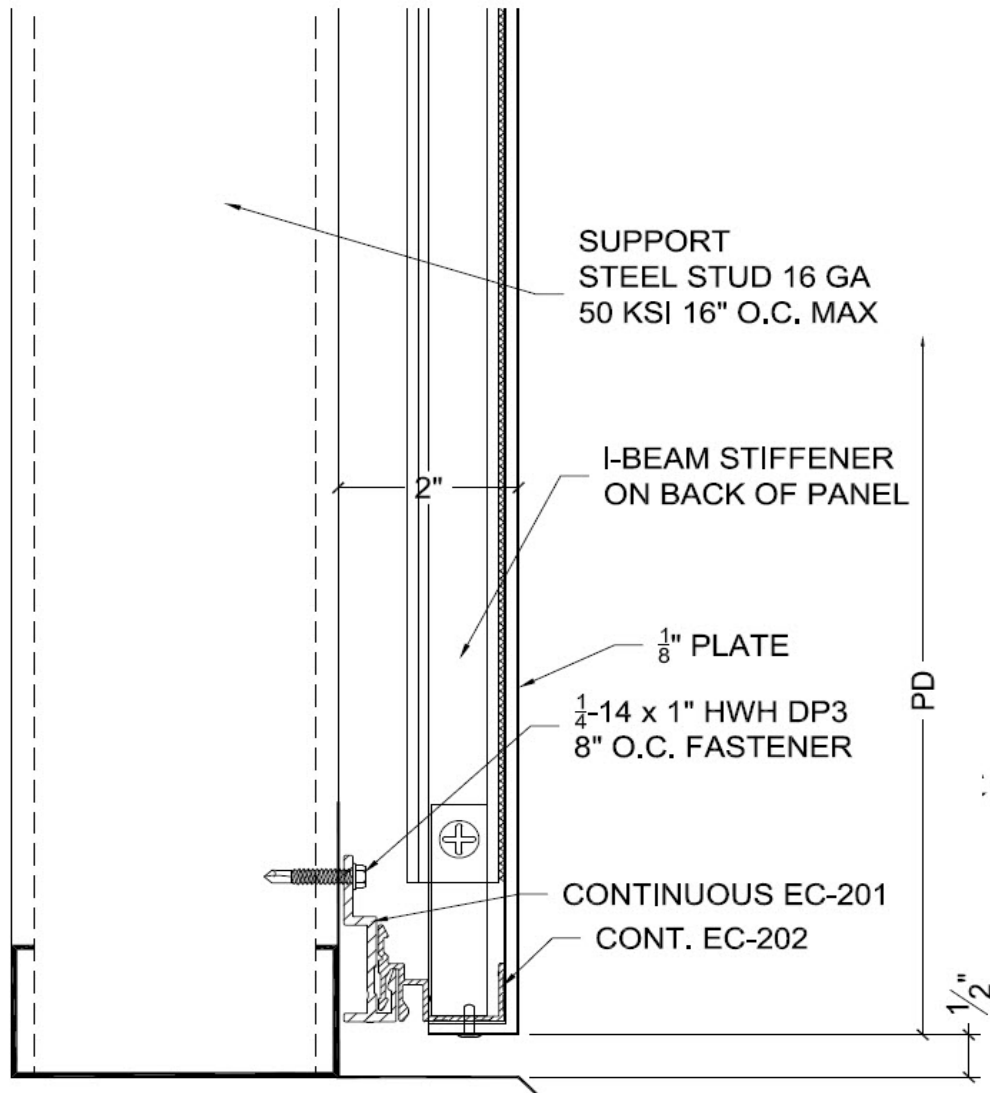


2 SECTION
 101 1/2"=1'-0" ARCH REF: ECMS REF:

SUBMITTALS	
DESCRIPTION	DATE
1ST SUBMITTAL	06.19.25
2ND SUBMITTAL	10.10.25
CUSTOMER: 101 ELEVATIONS	
ECMS FIRM: 101 ELEVATIONS	
DRAWN BY: 101 ELEVATIONS	

Panel Sizes evaluated nominal 4' x 4" and 4' x 8"
 Installation may contain mixed sizes with attachment per this report

Installation Method East Coast Metal Systems "EC-250" Wall Panel System



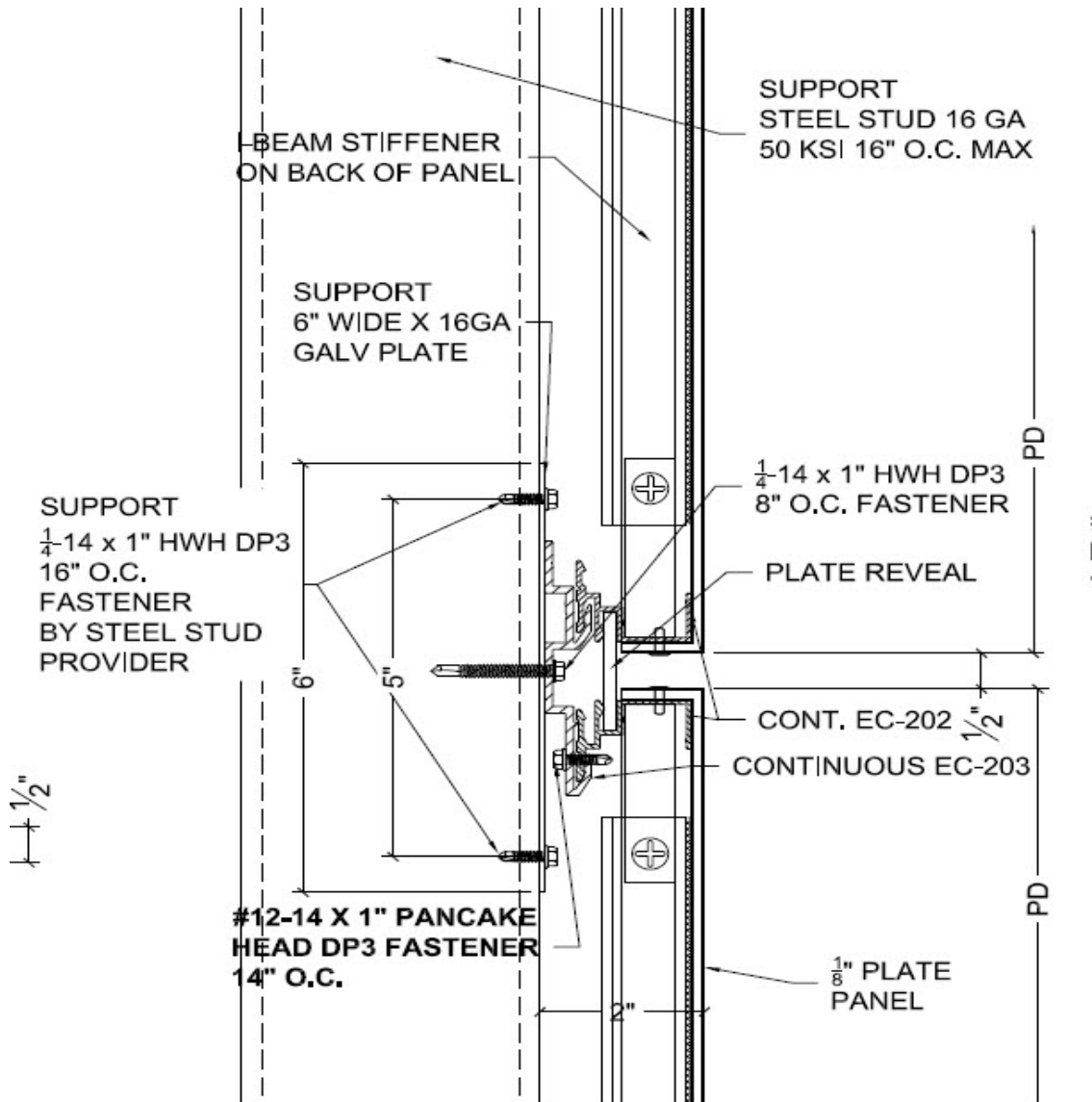
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201

DETAIL

1'-0"=1'-0"

ARCH REF:
ECMS REF:

Installation Method East Coast Metal Systems "EC-250" Wall Panel System



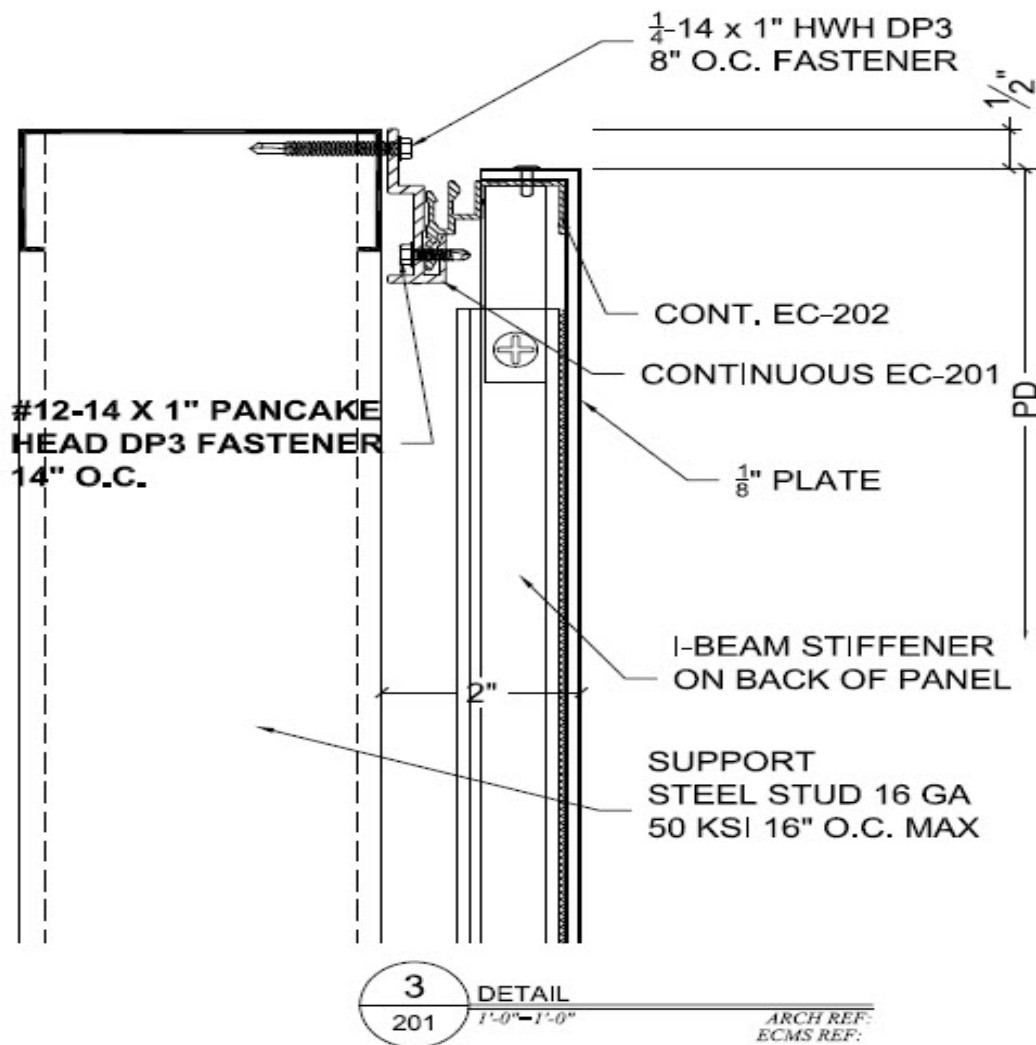
2
 201

DETAIL

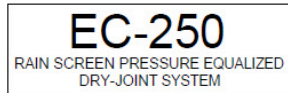
1'-0" = 1'-0"

ARCH REF:
 ECMS REF:

Installation Method East Coast Metal Systems "EC-250" Wall Panel System

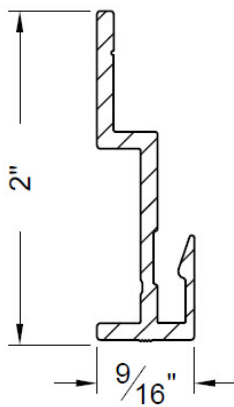


Installation Method East Coast Metal Systems "EC-250" Wall Panel System

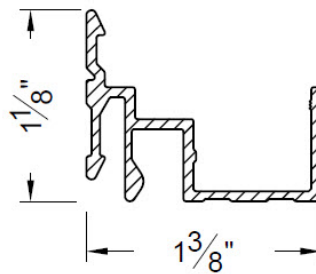


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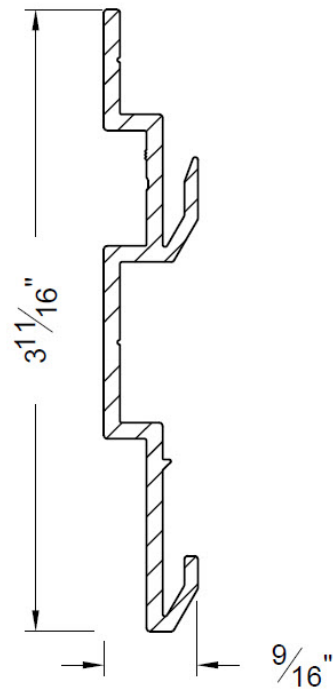
ATTACHMENT EXTRUSIONS



EC-201 EXTRUSION
(STARTER STRIP)

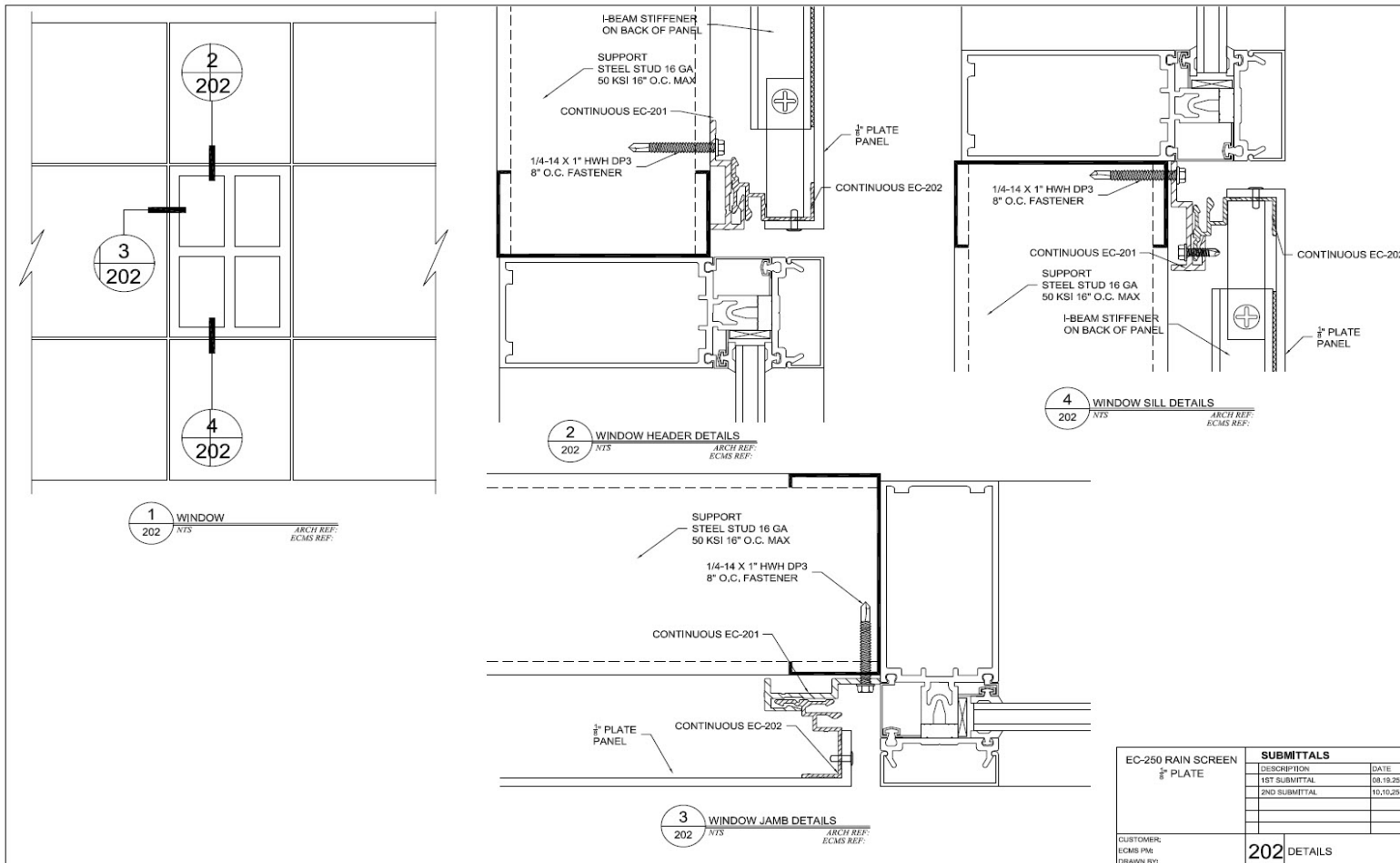


EC-202
PANEL EXTRUSION



EC-203
1/2" JOINT CLIP

Installation Method East Coast Metal Systems "EC-250" Typical Window Opening Details



Installation Method East Coast Metal Systems "EC-250" Typical Door Opening Details

