

IMPORTANT NOTICE

The following document is NOT comprehensive for design, bidding, or installation when used in isolation. Please refer to all related documents in their entirety for complete information regarding this ACM panel system. Such documents include, but may not be limited to, Technical Guides, Architectural Color Chart, Approved Materials List, Systems Guides, Technical Bulletins, Technical Data Sheets, CAD Drawings, Specifications, and Submittals. Visit <u>LaminatorsInc.com</u> for information on the latest documents regarding this panel system.

To consult directly with one of our Professional Engineers regarding our ACM panel systems, contact Laminators Technical Support between the hours of 8:00am – 5:00pm EST:

800.523.2347
<u>LaminatorsInc.com</u>
engineering@laminatorsinc.com



INSTRUCTIONS FOR NFPA 285 COMPLIANCE

With respect to fire performance, note the following when detailing the Dry Seal Installation System over gypsum (non-structural) sheathing:

- The following document represents the referenced system as it has been designed, detailed, and tested and its relationship with a typical exterior wall assembly. As such, the document may be considered a baseline for the system and appropriately applied to project-specific conditions.
 - a. Laminators defines the NFPA 285 Zone as the area contained within a 10'-0" height above any window by the width of the window opening. The following document does not include a partial elevation that outlines the NFPA 285 Zone and related dimensions, notes, and sections. However, in order to maintain NFPA 285 compliance, specialized detailing is still required in the NFPA 285 Zone and at window heads as follows:
 - Additional layers of steel flashing are required at window heads per detail DS-GYP-02A.
 - ii. Vertical panel joints are not permitted above window openings within the NFPA 285 Zone. All vertical joints must align with vertical window jambs or mullions.
- 2. Through the use of a specific Engineering Evaluation (EEV) available from Laminators, engineering extensions may be made (in lieu of what has been tested) with respect to base wall framing, fire-stopping at floor lines, cavity insulation, and water-resistive barrier (WRB) components while maintaining NFPA 285 compliance. The EEV may be required for submission to the Authority Having Jurisdiction (AHJ) to support the extensions.
- 3. If one or more engineering extensions are required beyond what is provided in the EEV available from Laminators, it is the responsibility of a third-party to pursue obtaining a separate EEV that adequately addresses each intended substitution. Note that Laminators <u>cannot</u> serve as the third-party in efforts to obtain such an EEV.

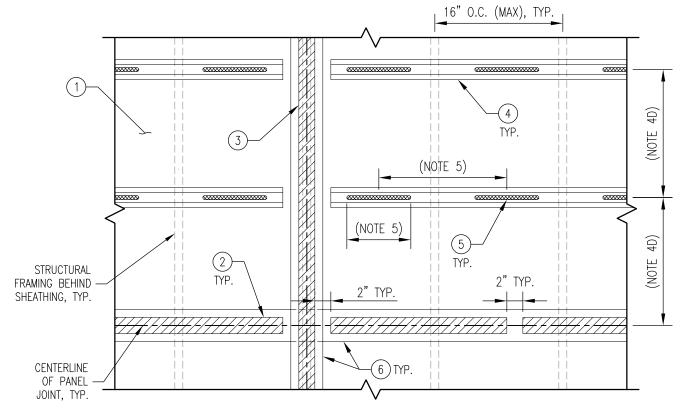
Note that the application of any engineering extension for NFPA 285 compliance will need to be evaluated by the Design Professional of Record (DPR) with respect to potential impact on any air, structural, and water performance of the project-specific exterior wall assembly. It is possible that components substituted to achieve fire testing compliance will affect the assembly differently with respect to air, structural, and water performance and need to be coordinated.

If the Dry Seal Installation System is intended to be installed over a different substrate (e.g. fire-retardant-treated wood (FRTW) structural sheathing (panels), CMU, concrete, or Omega CI rigid insulation panels), please defer to the appropriate detail set.



DRAWING INDEX - DS-GYP DETAIL SET (Rev 02, 06/09/2022)

DWG NO.	TITLE	REV DATE	REV	CHANGE FROM PREVIOUS REV
DS-GYP-EL	Partial System Elevation	6/9/2022	02	Min screw length (Note 6)
DS-GYP-ST	Panel Stiffener Detail	8/25/2020	00	
DS-GYP-01	Joint Detail	12/3/2020	01	
DS-GYP-01A	Joint Detail (Custom Width)	12/3/2020	01	
	Joint Detail			
DS-GYP-01B	(Alternate Insert Strip Install)	12/3/2020	01	
DS-GYP-02	Window Head Detail	12/3/2020	01	
DS-GYP-02A	Window Head Detail (NFPA 285 Zone)	12/3/2020	01	
DS-GYP-03	Window Sill Detail	12/3/2020	01	
DS-GYP-04	Window Jamb / Vertical Edge Detail	12/3/2020	01	
	Window Jamb / Vertical Edge Detail			
DS-GYP-04A	w/ Trim	12/3/2020	01	
	Vertical Edge Detail			
DS-GYP-04B	(Alt. Insert Strip Install)	12/3/2020	01	
DS-GYP-05	Top of Wall Detail	12/3/2020	01	
DS-GYP-06	Base of Wall (Grade) Detail	12/3/2020	01	
DS-GYP-07	Inside Corner Detail	8/25/2020	00	
DS-GYP-08	Outside Corner Detail	8/25/2020	00	
DS-GYP-09	Fascia-to-Soffit Transition Detail	8/25/2020	00	
DS-GYP-10	Soffit-to-Wall Transition Detail w/ Joint	12/3/2020	01	
DS-GYP-11	Soffit Vent Requirements	8/25/2020	00	



PARTIAL SYSTEM ELEVATION (PANELS AND EXTRUSIONS NOT SHOWN)

- 1) 5/8" (MAX) EXTERIOR-GRADE GYPSUM SHEATHING W/ AIR AND WATER BARRIER (AWB); TYPE OF AWB TO BE SELECTED BY DESIGN PROFESSIONAL OF RECORD
- 2 HORIZONTAL FOAM TAPE APPLIED TO COLD-FORMED STRAPPING ALONG HORIZONTAL PANEL JOINTS WITH 2" (MIN) GAPS FOR VENTING AND DRAINAGE AT 24" O.C. AND AT INTERFACES WITH CONTINUOUS VERTICAL FOAM TAPE
- 3 CONTINUOUS VERTICAL FOAM TAPE APPLIED TO COLD-FORMED STRAPPING ALONG VERTICAL PANEL JOINTS
- (4) PANEL STIFFENERS (1-1/2" HAT CHANNELS, 18 GA. MIN)
 - A. MAINTAIN 3" GAPS BETWEEN ENDS OF PANEL STIFFENERS AND PANEL EDGES FOR DRAINAGE
 - B. PANEL STIFFENERS MUST BE ORIENTED HORIZONTALLY
 - C. FASTEN STIFFENERS THROUGH SHEATHING TO STRUCTURAL FRAMING BEHIND USING (2) #10 X 1" (MIN) SELF-DRILLING SCREWS PER FRAMING MEMBER ALONG HAT CHANNEL FLANGES (REFER TO DETAIL DS-GYP-ST); STRUCTURAL FRAMING TO BE 16" O.C. (MAX)
 - D. REQUIRED PANÉL STIFFENER SPACING TO BE BASED ON PROJECT SPECIFIC WIND LOADS:
 - UP TO 40 PSF (ASD): STIFFENERS REQUIRED AT 24" O.C.
 - GREATER THAN 40 PSF (ASD), UP TO 60 PSF (ASD): STIFFENERS REQUIRED AT 16" O.C.

- 5) 1/4" (MIN) TO 3/8" (MAX) BEAD OF LAMINATORS APPROVED PANEL ADHESIVE APPLIED TO PANEL STIFFENERS (REFER TO DETAIL DS-GYP-ST); LENGTH AND SPACING OF ADHESIVE BEADS TO BE BASED ON PROJECT SPECIFIC WIND LOADS:
 - UP TO 60 PSF (ASD): 8" ADHESIVE LENGTHS AT 16" O.C.
- 6 CONTINUOUS 4" COLD-FORMED STRAPPING (18 GA. MIN) FASTENED THROUGH SHEATHING TO STRUCTURAL FRAMING BEHIND USING (3) #8 X 1" (MIN) PPH SELF-DRILLING SCREWS PER FRAMING MEMBER
 - HÓRIZONTAL STRAPPING INSTALLED AT ALL HORIZONTAL PANEL JOINTS/EDGES
 - VERTICAL STRAPPING TO BE INSTALLED AT ALL VERTICAL PANEL JOINTS/EDGES; WHERE VERTICAL PANEL JOINTS DO NOT ALIGN WITH STRUCTURAL STUD FRAMING, VERTICAL STRAPPING TO BE FASTENED TO HORIZONTAL STRAPPING USING (4) #8 X 1" (MIN) PPH SELF-DRILLING SCREWS AT EACH INTERSECTION

IMPORTANT NOTICE

PROJECT-SPECIFIC COMPONENTS AND CLADDING WIND LOADS (REQUIRED STRENGTH, Ra) SHALL NOT EXCEED AVAILABLE LOAD-CARRYING CAPACITY OF SYSTEM (ALLOWABLE STRENGTH, Rn/Ω)

- A. PROJECT-SPECIFIC COMPONENTS AND CLADDING WIND LOADS ARE TO BE DETERMINED BY THE DESIGN PROFESSIONAL OF RECORD
- B. AVAILABLE LOAD-CARRYING CAPACITY OF SYSTEM (UP TO 60 PSF) IS BASED ON ALLOWABLE STRENGTH DESIGN (ASD) METHOD
- C. FOR PROJECT-SPECIFIC COMPONENTS AND CLADDÍNG WIND LOADS GREATER THAN 60 PSF, CONTACT LAMINATORS TECHNICAL SUPPORT FOR PROJECT-SPECIFIC DETAILING REQUIREMENTS

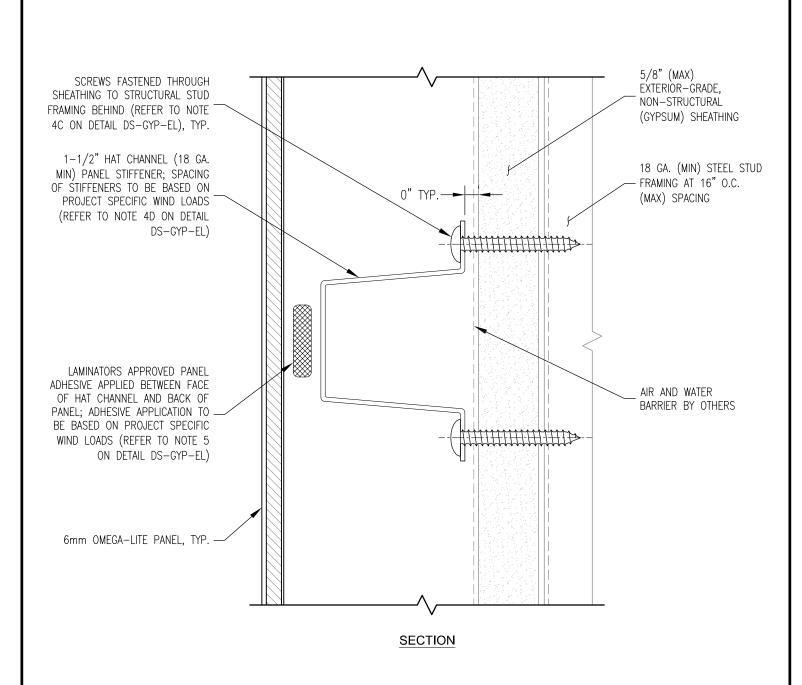


PARTIAL SYSTEM ELEVATION

DRY SEAL INSTALLATION SYSTEM
OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 6/9/2022 JJM

Dwg. No.: Rev: DS-GYP-EL 02



- SPACING SHOWN BETWEEN SOME INSTALLATION SYSTEM COMPONENTS EXAGGERATED FOR CLARITY
- PANEL STIFFENERS TO BE FASTENED TO SUBSTRATE PRIOR TO PANEL INSTALLATION; REFER TO DETAIL DS-GYP-EL FOR ADDITIONAL INFORMATION
- FULL CONTACT OF PANEL ADHESIVE WITH BACK OF PANEL REQUIRED AT ALL APPLICATION LOCATIONS



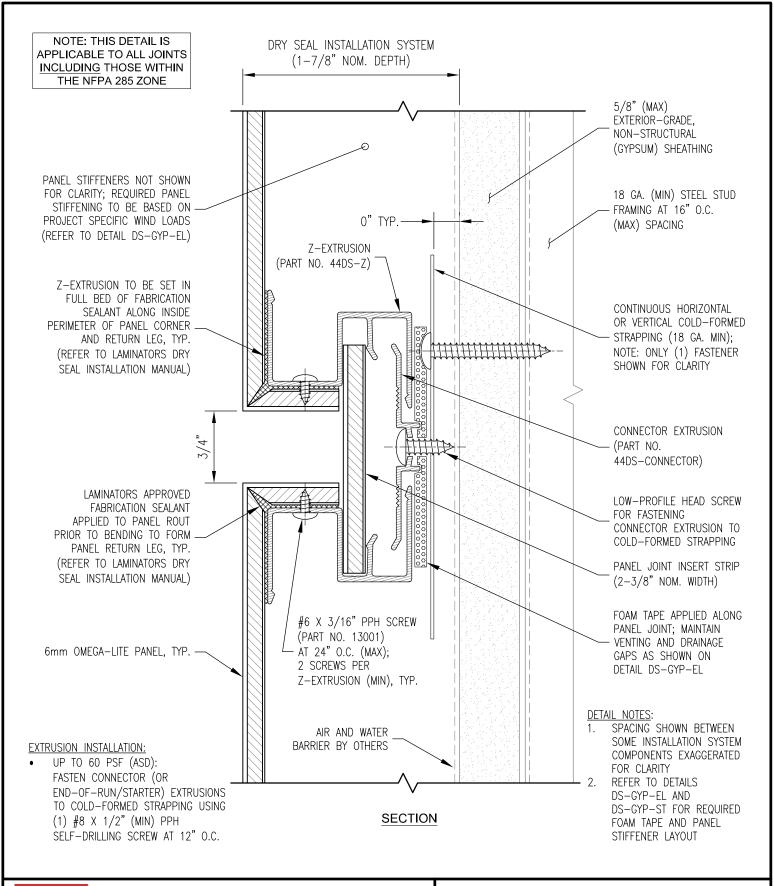
www.LaminatorsInc.com 877.0MEGA.77 PANEL STIFFENER DETAIL

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 8/25/2020 JJM

Dwg No.: Rev: DS-GYP-ST

00



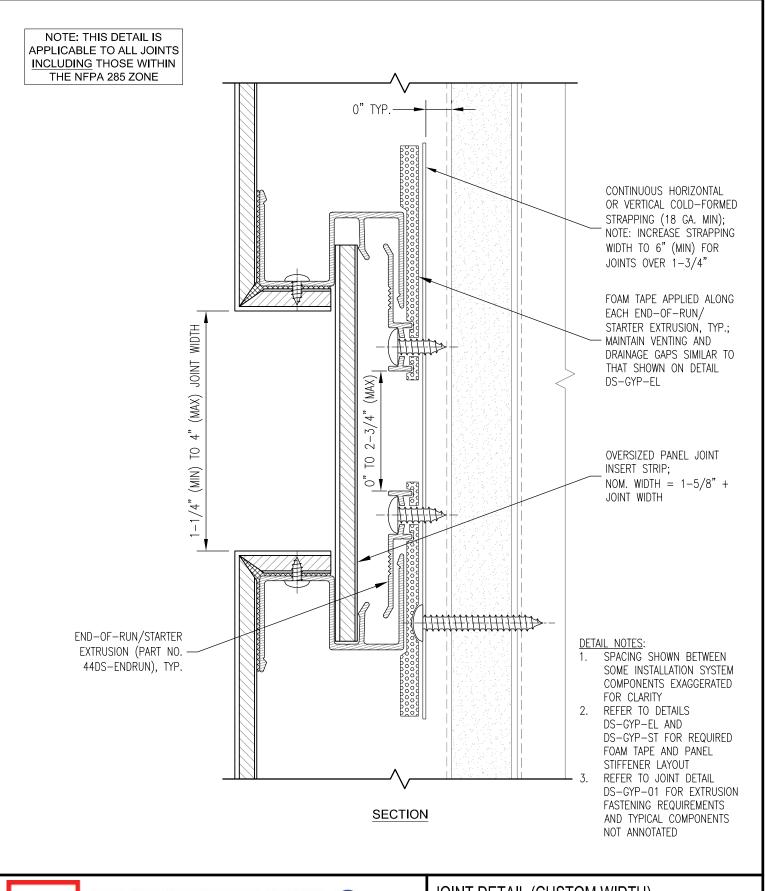


JOINT DETAIL

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: Rev: DS-GYP-01 01





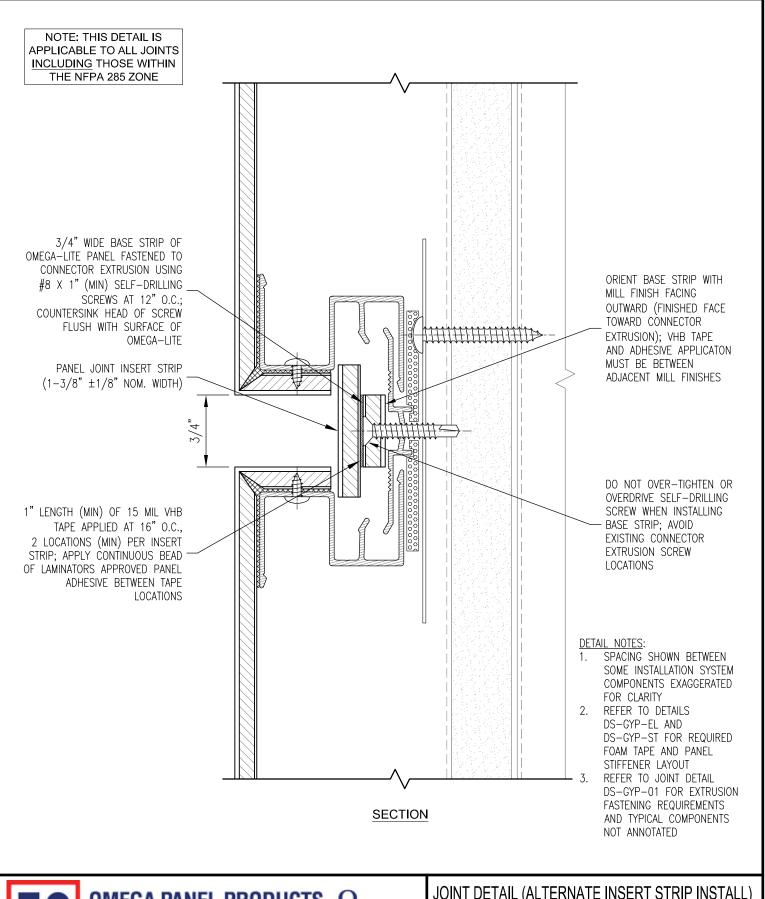
JOINT DETAIL (CUSTOM WIDTH)

JJM

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: 12/3/2020

Drawn By: Dwg. No.: DS-GYP-01A





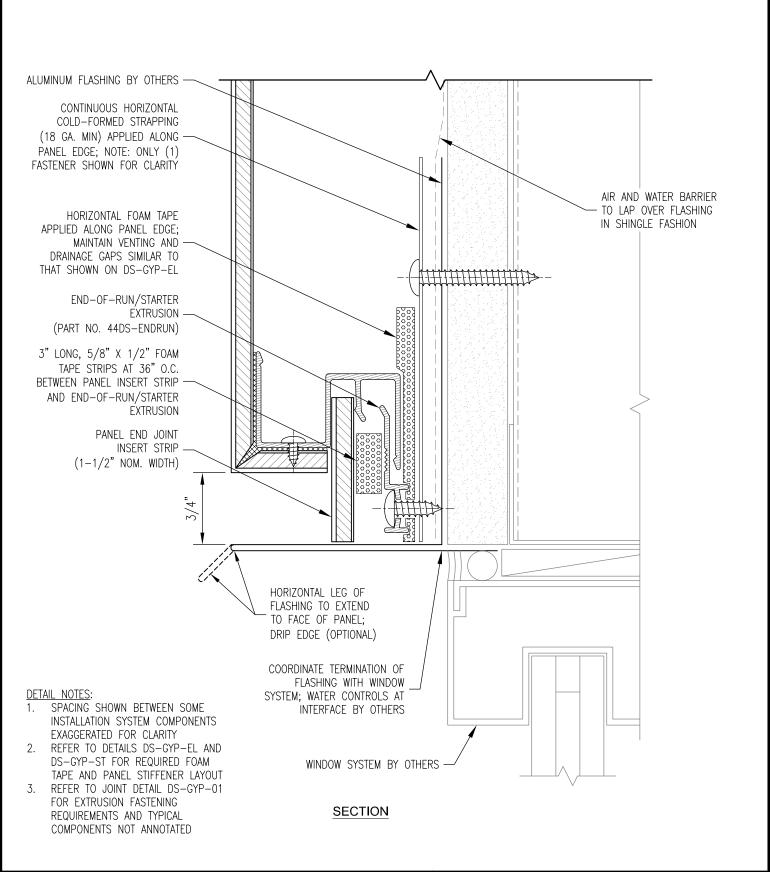
JOINT DETAIL (ALTERNATE INSERT STRIP INSTALL)

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Drawn By:

JJM

Date: 12/3/2020 Dwg. No.: DS-GYP-01B



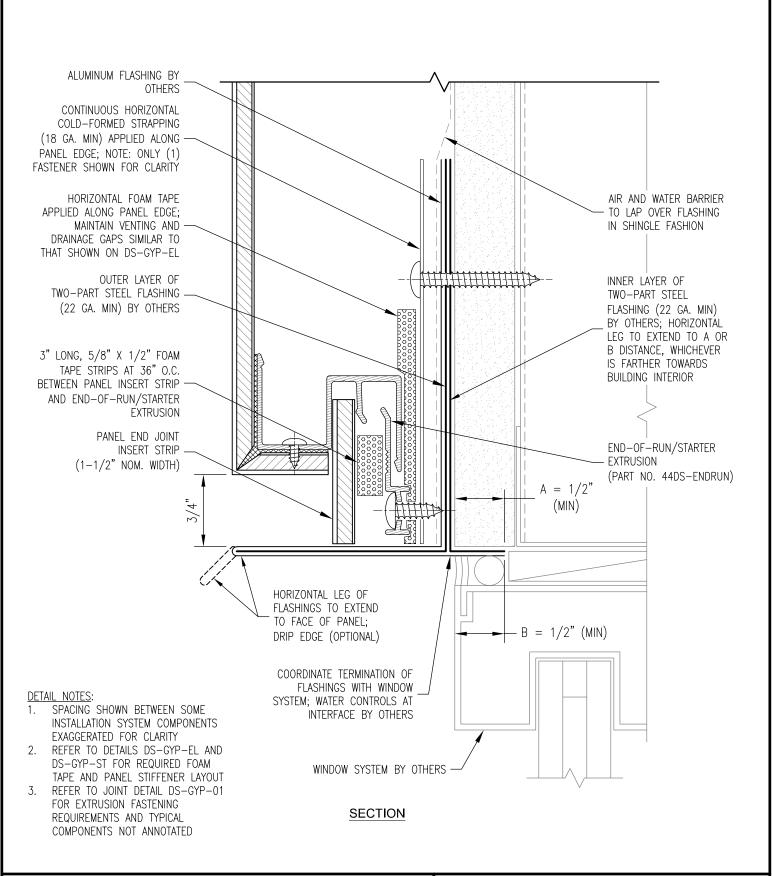


WINDOW HEAD DETAIL

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: Rev: DS-GYP-02 01





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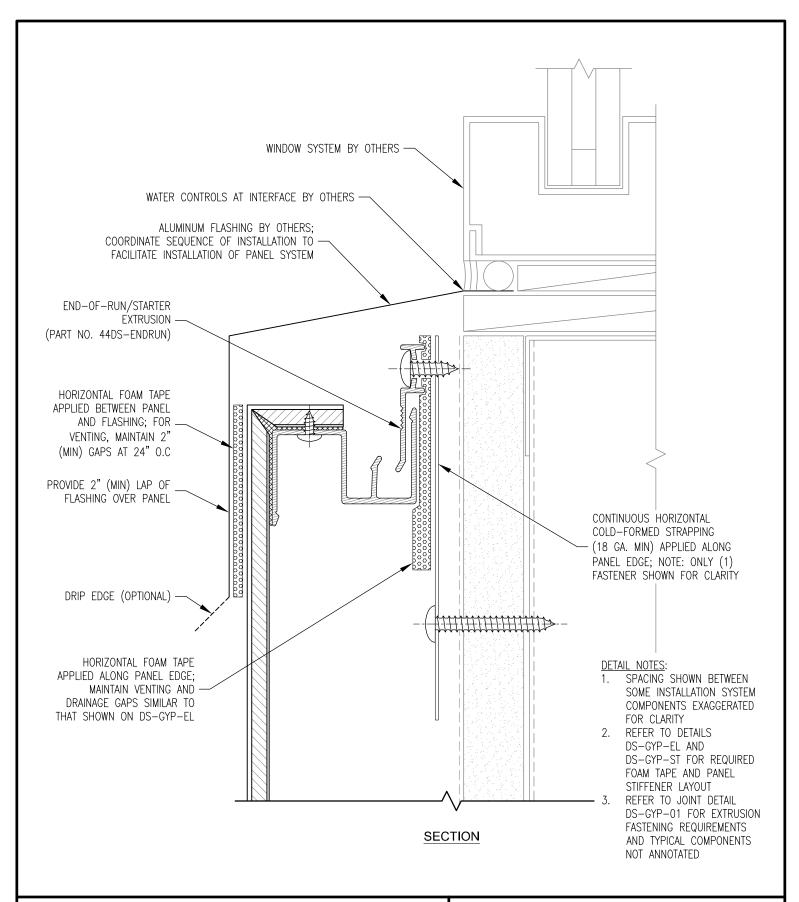
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WINDOW HEAD DETAIL (NFPA 285 ZONE)

DRY SEAL INSTALLATION SYSTEM
OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: Rev: DS-GYP-02A 01





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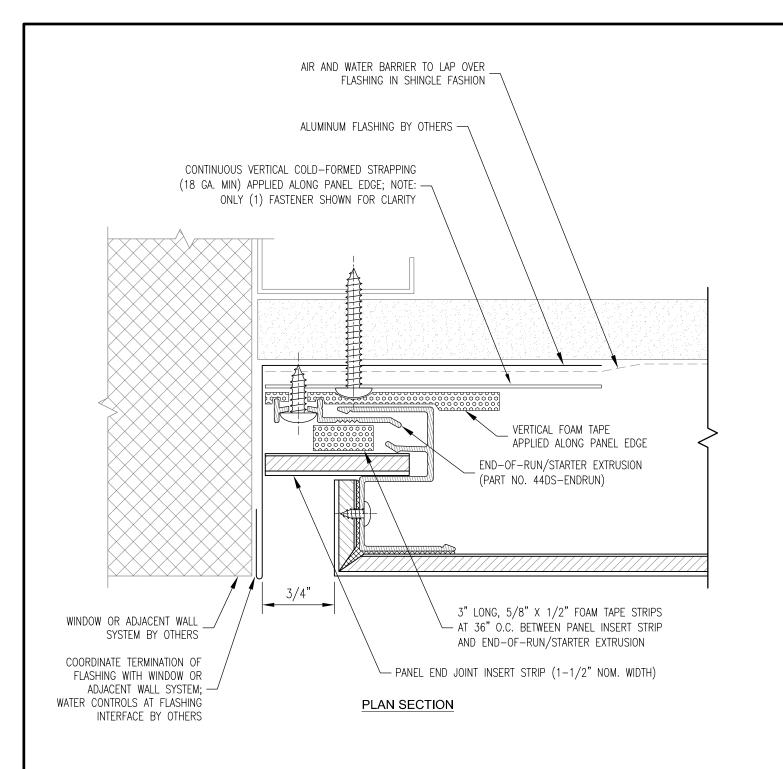
WINDOW SILL DETAIL

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: DS-GYP-03 Rev:

01



- SPACING SHOWN BETWEEN SOME INSTALLATION SYSTEM COMPONENTS EXAGGERATED FOR CLARITY
- REFER TO DETAILS DS-GYP-EL AND DS-GYP-ST FOR REQUIRED FOAM TAPE AND PANEL STIFFENER LAYOUT
- REFER TO JOINT DETAIL DS-GYP-01 FOR EXTRUSION FASTENING REQUIREMENTS AND TYPICAL COMPONENTS NOT ANNOTATED



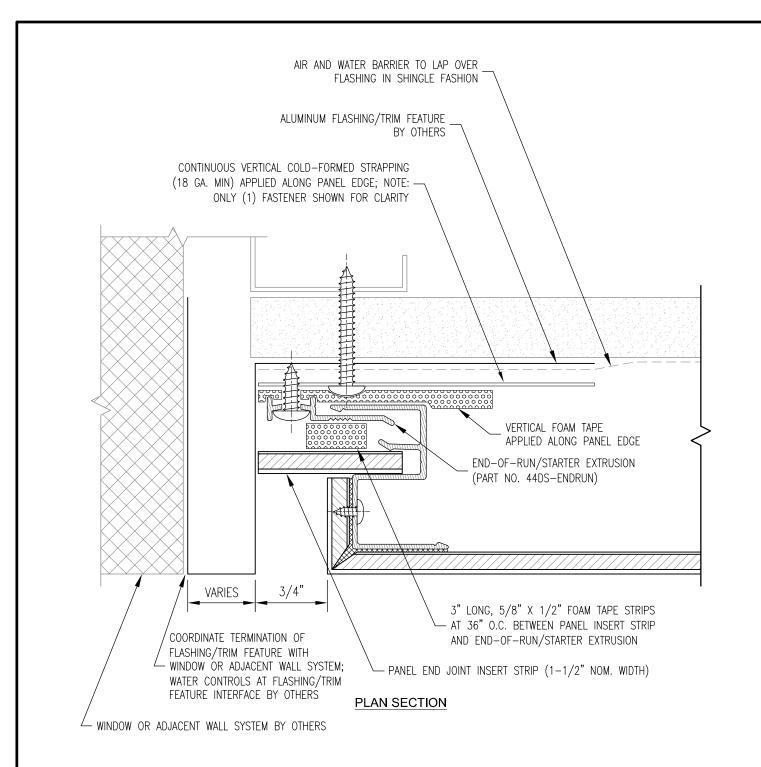
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WINDOW JAMB / VERTICAL EDGE DETAIL

DRY SEAL INSTALLATION SYSTEM
OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: Rev: DS-GYP-04 01



- SPACING SHOWN BETWEEN SOME INSTALLATION SYSTEM COMPONENTS EXAGGERATED FOR CLARITY
- REFER TO DETAILS DS-GYP-EL AND DS-GYP-ST FOR REQUIRED FOAM TAPE AND PANEL STIFFENER LAYOUT
- REFER TO JOINT DETAIL DS-GYP-01 FOR EXTRUSION FASTENING REQUIREMENTS AND TYPICAL COMPONENTS NOT ANNOTATED

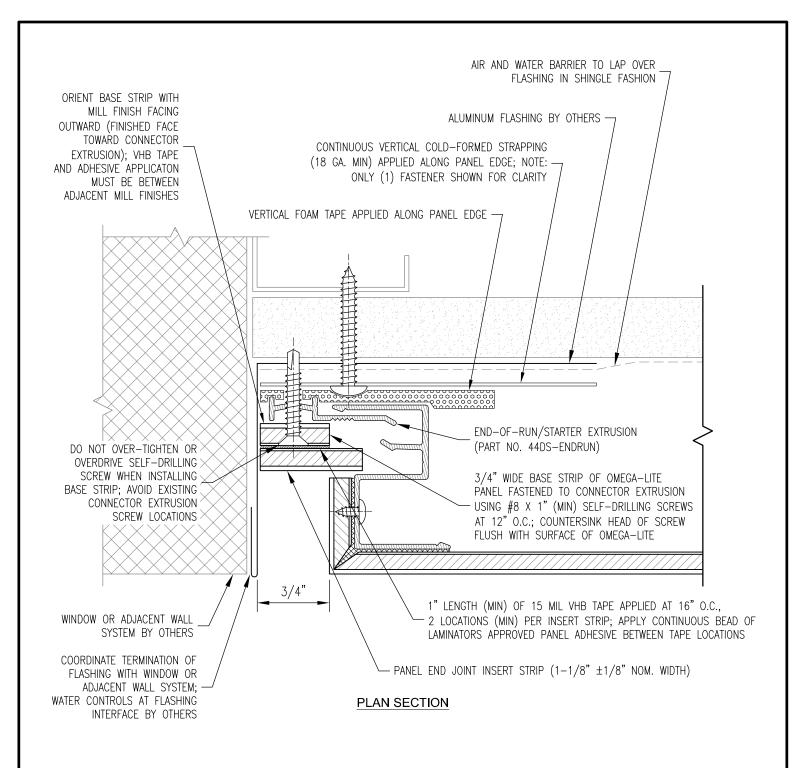


WINDOW JAMB / VERTICAL EDGE DETAIL w/ TRIM

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: Rev: DS-GYP-04A 01



- SPACING SHOWN BETWEEN SOME INSTALLATION SYSTEM COMPONENTS EXAGGERATED FOR CLARITY
- REFER TO DETAILS DS-GYP-EL AND DS-GYP-ST FOR REQUIRED FOAM TAPE AND PANEL STIFFENER LAYOUT
- REFER TO JOINT DETAIL DS-GYP-01 FOR EXTRUSION FASTENING REQUIREMENTS AND TYPICAL COMPONENTS NOT ANNOTATED



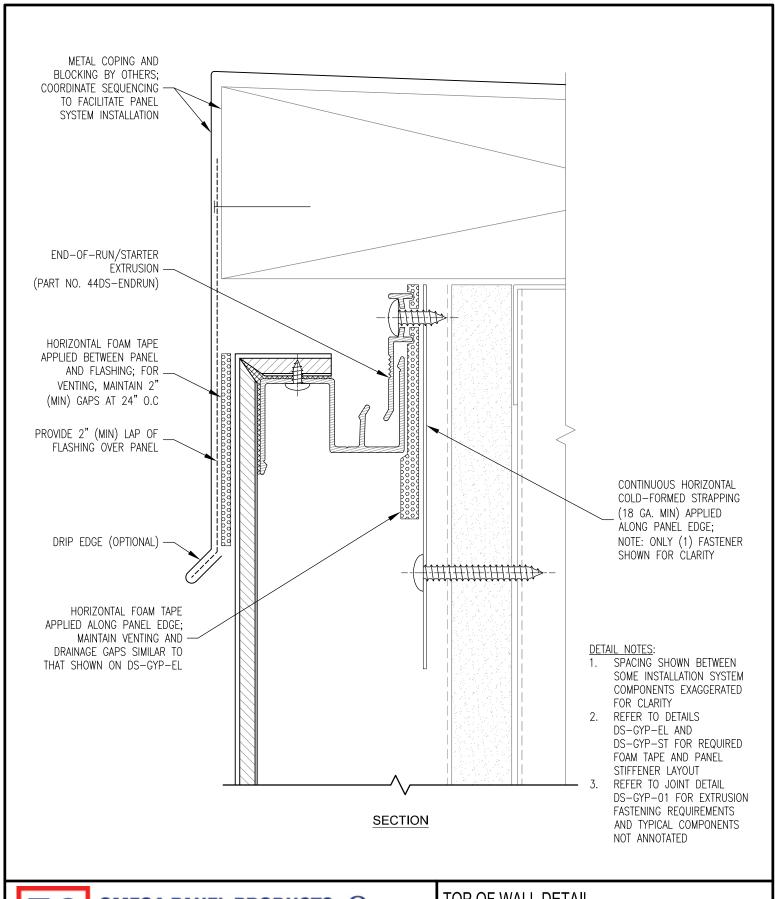
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VERTICAL EDGE DETAIL (ALT. INSERT STRIP INSTALL)

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: Rev: DS-GYP-04B 01





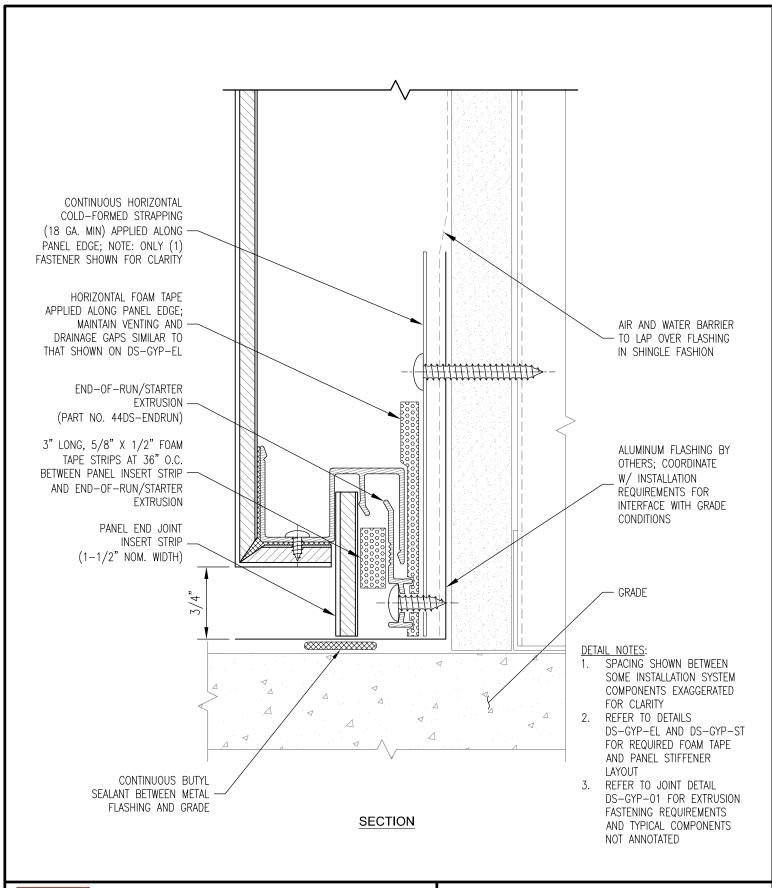
TOP OF WALL DETAIL

Drawn By:

JJM

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: 12/3/2020 Dwg. No.: DS-GYP-05



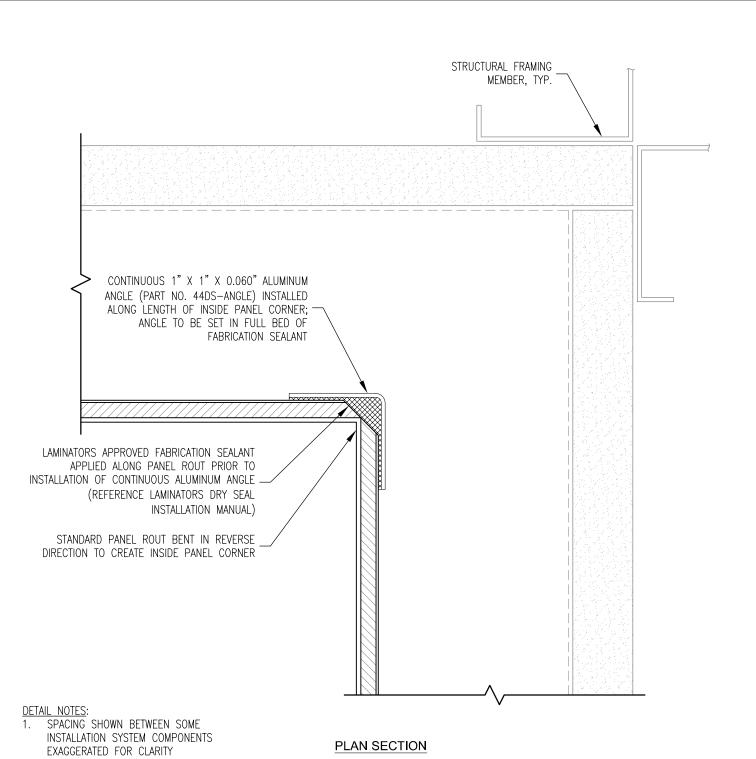


BASE OF WALL (GRADE) DETAIL

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: DS-GYP-06



- 2. REFER TO DETAILS DS-GYP-EL AND DS-GYP-ST FOR REQUIRED FOAM TAPE AND PANEL STIFFENER LAYOUT
- 3. REFER TO JOINT DETAIL DS-GYP-01 FOR EXTRUSION FASTENING REQUIREMENTS AND TYPICAL COMPONENTS NOT ANNOTATED

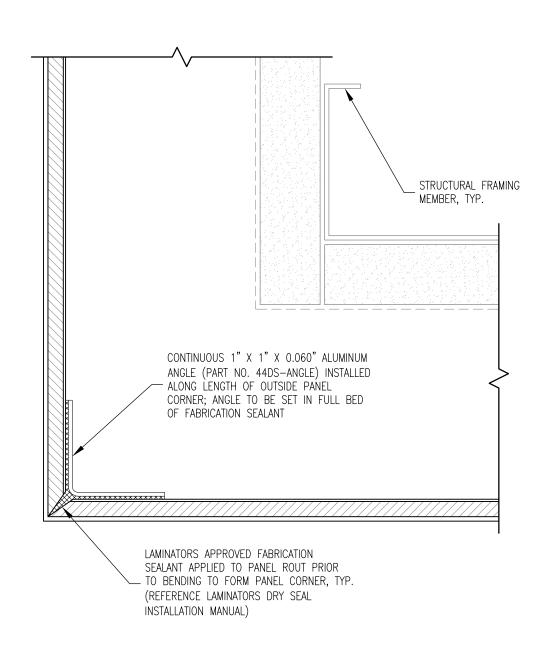
NOTE: THIS DETAIL IS ALSO APPLICABLE FOR SOFFIT-TO-WALL TRANSITIONS



INSIDE CORNER DETAIL

DRY SEAL INSTALLATION SYSTEM
OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: 8/25/2020 Drawn By: Dwg. No.: JJM DS-GYP-07



PLAN SECTION

DETAIL NOTES:

- SPACING SHOWN BETWEEN SOME INSTALLATION SYSTEM COMPONENTS EXAGGERATED FOR CLARITY
- REFER TO DETAILS DS-GYP-EL AND DS-GYP-ST FOR REQUIRED FOAM TAPE AND PANEL STIFFENER LAYOUT
- REFER TO JOINT DETAIL DS-GYP-01 FOR EXTRUSION FASTENING REQUIREMENTS AND TYPICAL COMPONENTS NOT ANNOTATED

NOTE: REFER TO DETAIL DS-GYP-09 FOR FASCIA-TO-SOFFIT TRANSITIONS



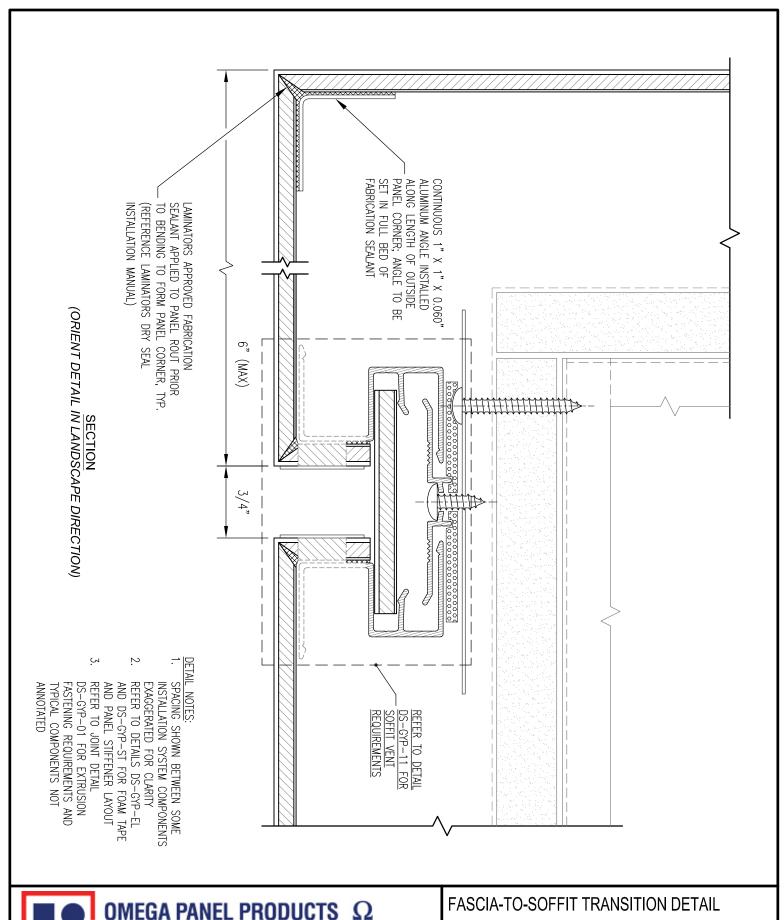
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OUTSIDE CORNER DETAIL

DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: 8/25/2020

Drawn By: Dwg. No.: JJM DS-GYP-08

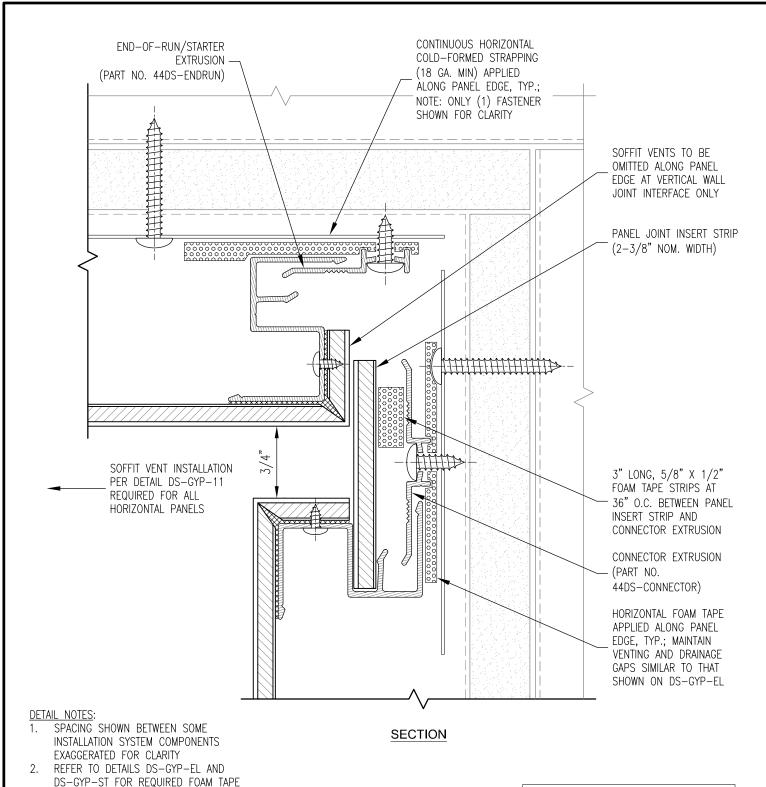




DRY SEAL INSTALLATION SYSTEM OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 8/25/2020 JJM

Dwg. No.: DS-GYP-09



NOTE: THIS DETAIL IS ALSO APPLICABLE FOR INSIDE CORNER TRANSITIONS



AND PANEL STIFFENER LAYOUT

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REFER TO JOINT DETAIL DS-GYP-01 FOR

EXTRUSION FASTENING REQUIREMENTS AND

TYPICAL COMPONENTS NOT ANNOTATED

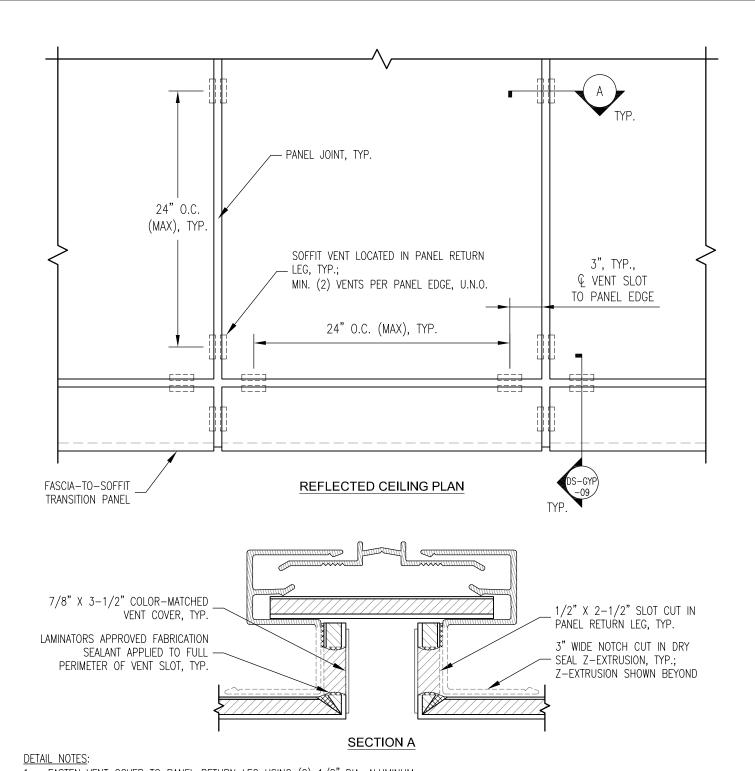
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SOFFIT-TO-WALL TRANSITION DETAIL w/ JOINT

DRY SEAL INSTALLATION SYSTEM
OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 12/3/2020 JJM

Dwg. No.: Rev: DS-GYP-10 01



- FASTEN VENT COVER TO PANEL RETURN LEG USING (2) 1/8" DIA. ALUMINUM BUTTONHEAD BLIND RIVETS (NOT SHOWN IN SECTION A) INSTALLED THRU PANEL RETURN LEG ON EACH SIDE OF SLOT, TYP.
- 2. FOR PANEL EDGE DIMENSIONS 18" AND SMALLER, ONLY (1) VENT LOCATION REQUIRED; CENTER VENT LOCATION ALONG PANEL EDGE

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SOFFIT VENT REQUIREMENTS

DRY SEAL INSTALLATION SYSTEM
OVER GYPSUM (NON-STRUCTURAL) SHEATHING

Date: Drawn By: 8/25/2020 JJM

Dwg No.: DS-GYP-11