



Flex Series

(Horizontal Installation)
Installation Guide

Flex Series

(Horizontal Install.)
Installation Guide

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General Notes

The attached installation details are intended to be a design aid and do not depict all situations. Modifications are the responsibility of the designer/user and should take into account climate conditions such as wind and snow, governing code requirements, and the actual usage and maintenance of the structure.

Applications:

Flex Series can be utilized as a wall panel installed in the vertical or horizontal orientation. It shall not be utilized for roof applications. Flex Series can be used over solid substrates or over spaced supports. This installation guide depicts clip attached panels installed using flush mounted clips. Details for direct fastened panels or clip attached panels using standoff clips would be similar.

Flashings:

Where possible, flashings should be lapped away from prevailing winds. Certain flashings should be supported if it is likely that equipment (ladder, etc.) will be used against them. Check with AEP Span any time you intend to specify a prefinished flashing in a gauge or finish different than the Flex Series. It is good practice to specify that all flashings be of the same material (gauge, color, finish) as the roof panels to ensure long-term durability. Field-painted flashings rarely equal the durability and colorfastness of factory baked-on paint systems. The enclosed details have minimized the use of exposed fasteners where possible. The edges of flashings have also been shown hemmed to strengthen and to minimize the exposure of cut edges.

Flashing design and fabrication is generally the responsibility of the contractor. For convenience, we have provided some typical flashing drawings on our website at <http://www.aepspan.com/roof/prodDetailad08.html?id=35>. Applicable Flex Series flashing part numbers are referenced within this installation guide. Note that flashing shapes and dimensions may vary greatly based on project requirements. Installation details and flashings referenced within are for general design guidance only.

Condensation, Insulation, & Ventilation:

It is the designer's responsibility to determine the need and composition of condensation control materials including insulation and vapor retarders, as well as ventilation requirements. Metal wall products are susceptible to condensation and its control should be carefully considered.

Thermal Movement:

Both panels and flashings must allow for thermal movement (expansion and contraction) of the materials, especially where long lengths are used. Appropriate gaps or provisions must be provided to accommodate thermal movement.

Oil Canning:

Flat metal surfaces often display waviness commonly referred to as 'oil canning'. This can be caused by variations in raw material, processing variations, product handling, or variations in the installation substrate. Oil canning is a characteristic, not a defect, of panels manufactured from light-gauge metal. To reduce potential for oil canning, substrates should not deviate from a flat plane more than 1/4 inch in 20 feet, or 1/8 inch in 5 feet. Oil canning is not a cause for panel rejection. Additional technical information is available upon request.

References:

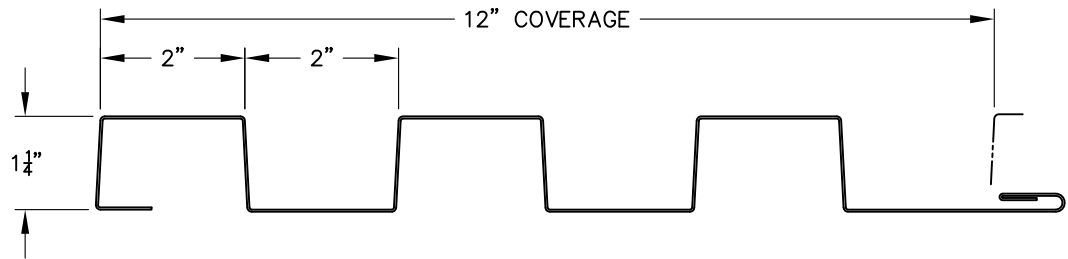
The Sheet Metal and Air Conditioning Contractors' National Association Inc. (SMACNA) manual is an excellent reference for sheet metal contractors. It's guidelines for underlayments, gutter and downspout size requirements, and expansion/contraction of metals and flashing joints should be followed.

Technical Assistance:

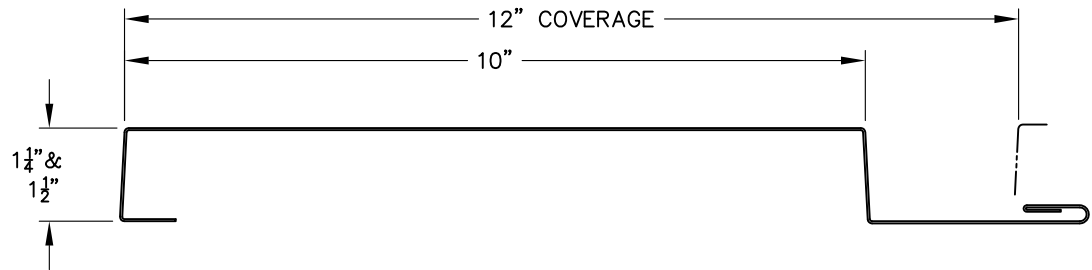
Contact your AEP Span Sales Representative for additional information.



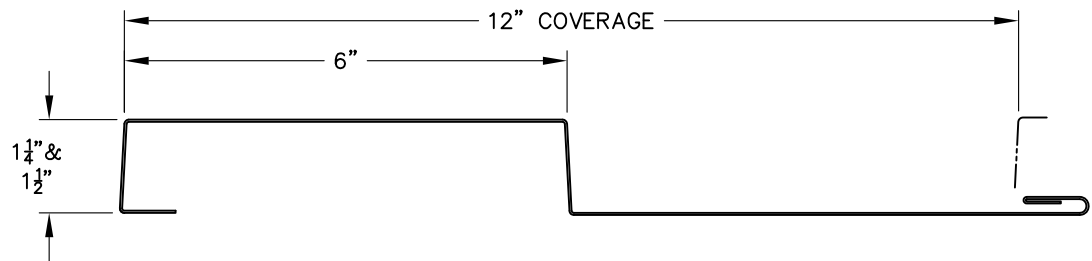
1.2FX10-12



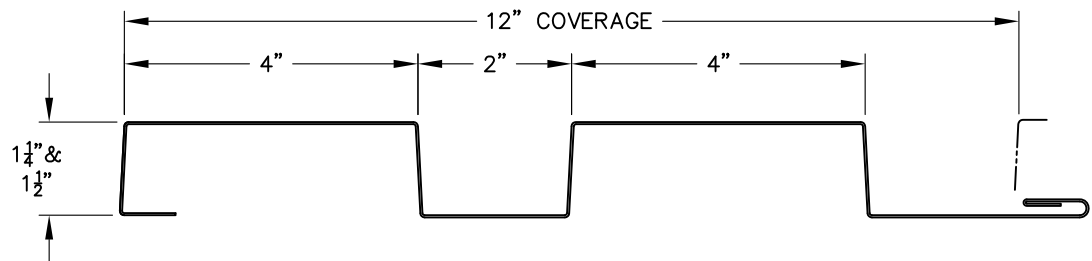
1.2FX20-12
1.5FX20-12



1.2FX30-12
1.5FX30-12



1.2FX40-12
1.5FX40-12



PANEL INTERLOCK
OPTIONS



DIRECT FASTENED
('D' P/N SUFFIX)



CLIP ATTACHED
('C' P/N SUFFIX)

MATERIAL:
STEEL: 22 & 24GA (20GA NON-STD.)
AVAILABLE LENGTHS: 5'-20'

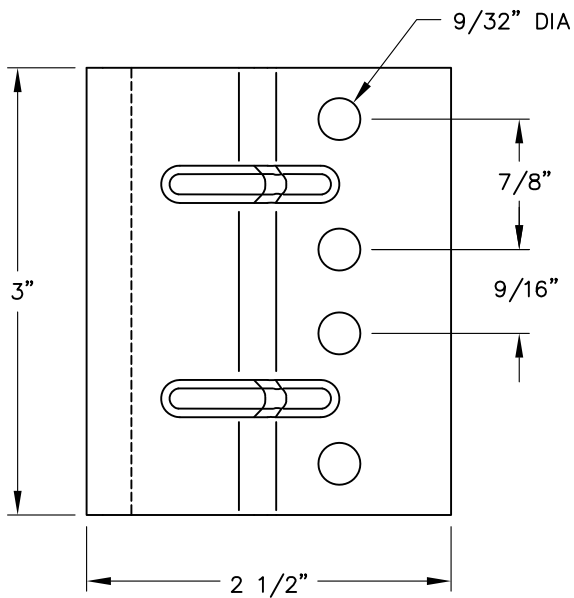


FLEX SERIES
HORIZONTAL INSTALL.

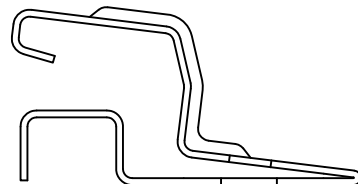
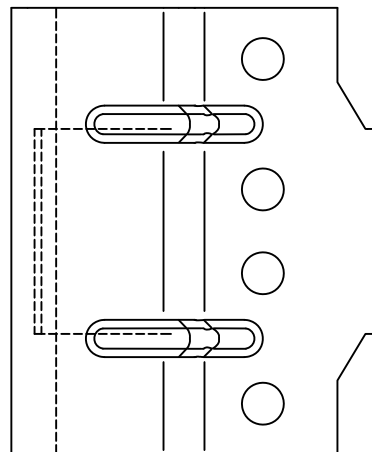


PANEL DETAILS

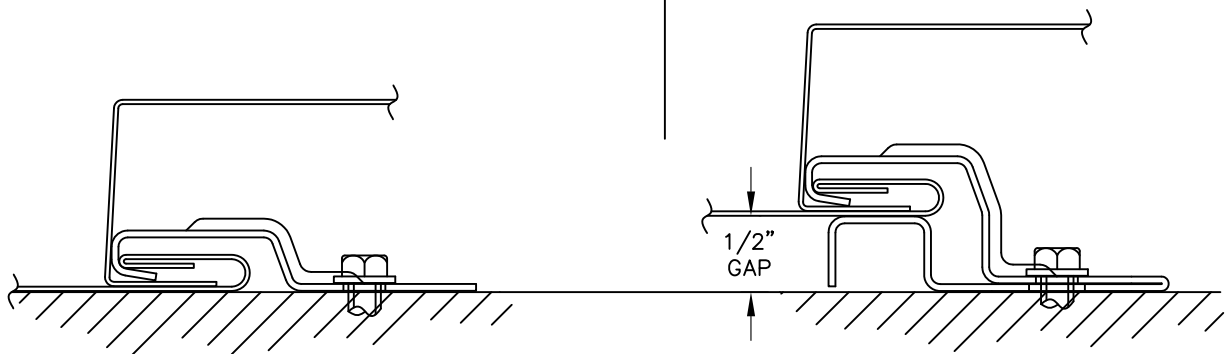
FXH-01



FLUSH CLIP
P/N: #WALLCLP



STANDOFF CLIP
P/N: #WALLCLP0.5



INSTALLED POSITION



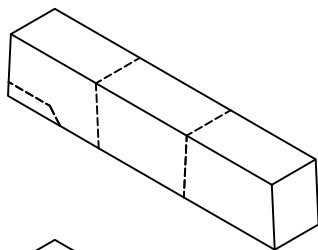
FLEX SERIES
HORIZONTAL INSTALL.



CLIPS

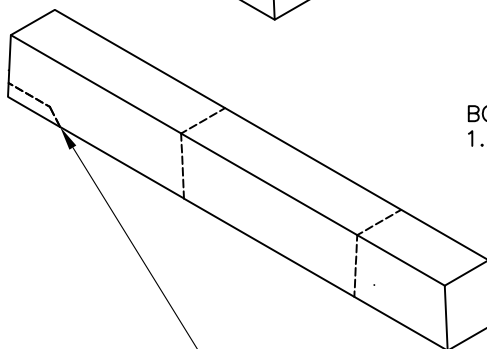
FXH-02

CL1.2FX-1P



TOP SIDE CLOSURE FOR ALL PANELS &
BOTTOM SIDE CLOSURE FOR 1.2FX10-12
& 1.2FX30-12

CL1.2FX-2P

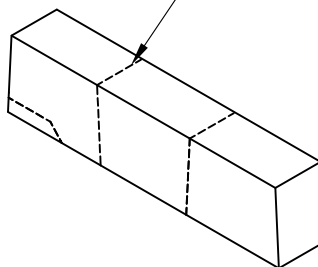


BOTTOM SIDE CLOSURE FOR
1.2FX20-12 & 1.2FX40-12

CORNER TEAROFF
FOR PANEL HEM

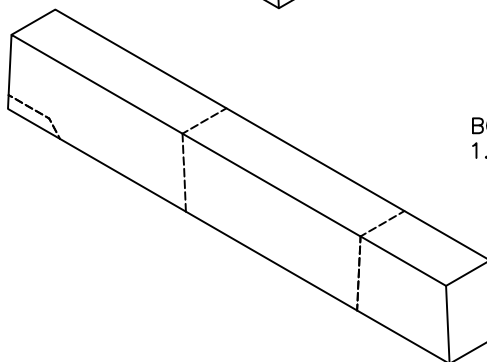
TEAROFF PERFORATED PLUG
SECTIONS TO FILL PANEL
REVEALS AS REQUIRED

CL1.5FX-1P



TOP SIDE CLOSURE FOR ALL PANELS.
BOTTOM SIDE CLOSURE FOR 1.5FX10-12
& 1.5FX30-12

CL1.5FX-2P



BOTTOM SIDE CLOSURE FOR
1.5FX20-12 & 1.5FX40-12

NOTE: APPLICATIONS UTILIZING STANDOFF CLIP ALSO REQUIRE
UNIVERSAL CLOSURE STRIP (AEP #CLEM1x19.68 OR EQUIV.) TO
SEAL OFF ADDITIONAL 1/2" PANEL-TO-SUBSTRATE GAP.



FLEX SERIES
HORIZONTAL INSTALL.



PANEL CLOSURES

FXH-03

TOP SIDE CLOSURE
INSTALLATION

TOP CLOSURE
PLUG

SEALANT BEAD

OPTIONAL: 1"W x 1/8"THK
FOAM TAPE (MAS.125PE) TO
SECURE CLOSURE PLUGS
AGAINST PANEL & SEALANT.

OPTIONAL FIELD
FABRICATED CLOSURE
COVER TRIM (X)

BOTTOM SIDE CLOSURE
INSTALLATION
(FLUSH MOUNTED PANELS)

BOTTOM SIDE CLOSURE
INSTALLATION
(PANELS WITH STANDOFF CLIP)

BOTTOM
CLOSURE PLUG

1X1 UNIVERSAL
CLOSURE STRIP
(AEP #CLEM1X19.68
OR EQUIV.)

NOTES:
— ALL CLOSURE PLUGS SECURED AND
SEALED WITH POLYURETHANE SEALANT
(X) — NOT BY AEP SPAN



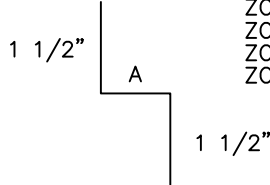
FLEX SERIES
HORIZONTAL INSTALL.



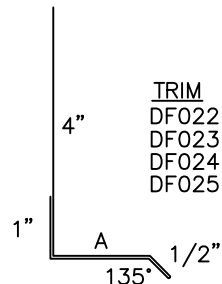
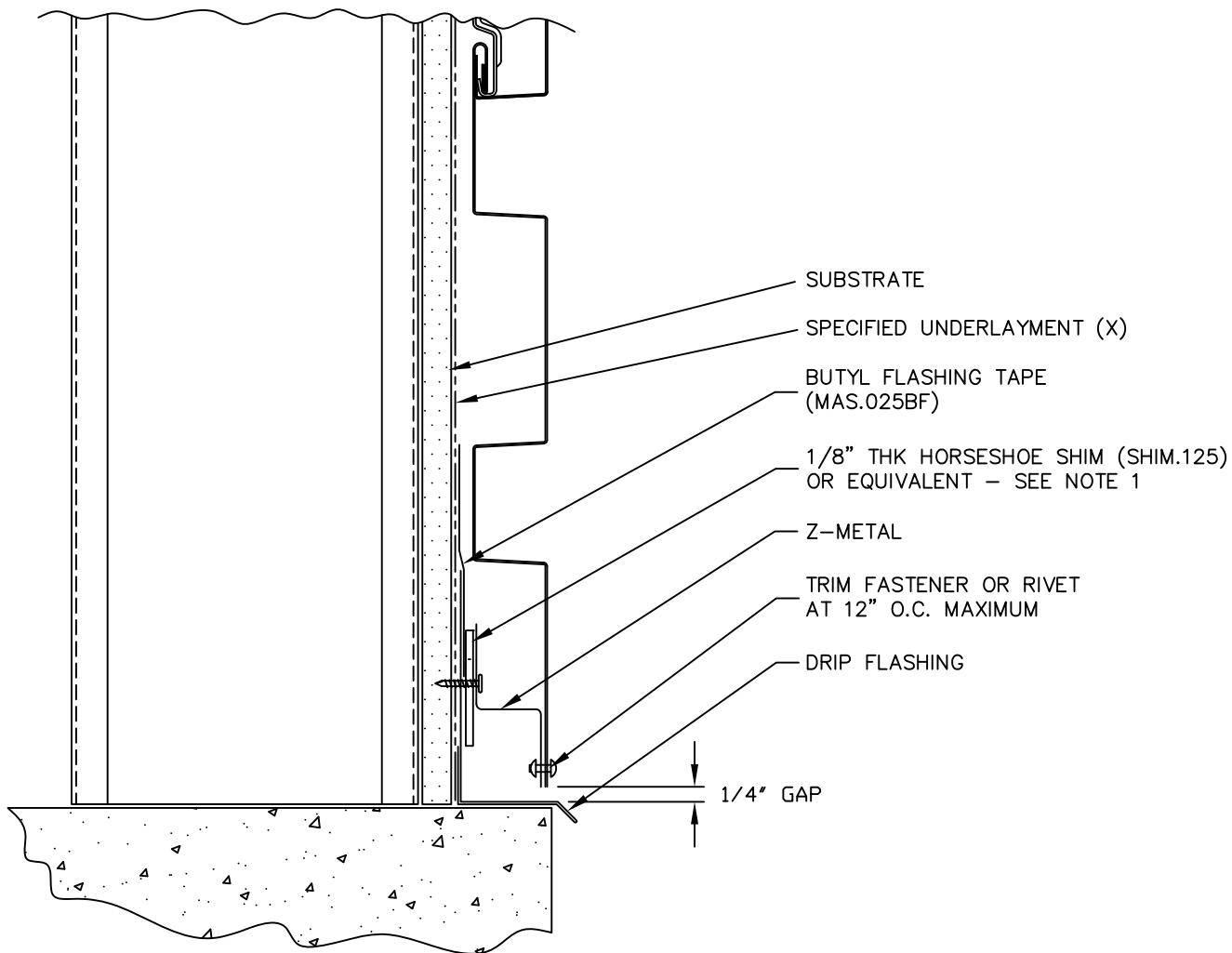
**CLOSURE
INSTALLATION**

FXH-04

TRIM	DIM A	USAGE
ZC226	1 1/4"	1.2FX FLUSH MOUNT
ZC220	1 3/4"	1.2FX W/0.5" STANDOFF
ZC224	1 1/2"	1.5FX FLUSH MOUNT
ZC227	2"	1.5FX W/0.5" STANDOFF



TRIM	DIM A	USAGE
DF022	1 5/8"	1.2FX FLUSH MOUNT
DF023	2 1/8"	1.2FX W/0.5" STANDOFF
DF024	1 7/8"	1.5FX FLUSH MOUNT
DF025	2 3/8"	1.5FX W/0.5" STANDOFF

1. SHIM USED FOR MOISTURE CONTROL (DRAINAGE) IN FLUSH MOUNT APPLICATIONS.
(X) – NOT BY AEP SPAN

FLEX SERIES PANELS ARE INSTALLED FROM GROUND TO EAVE.



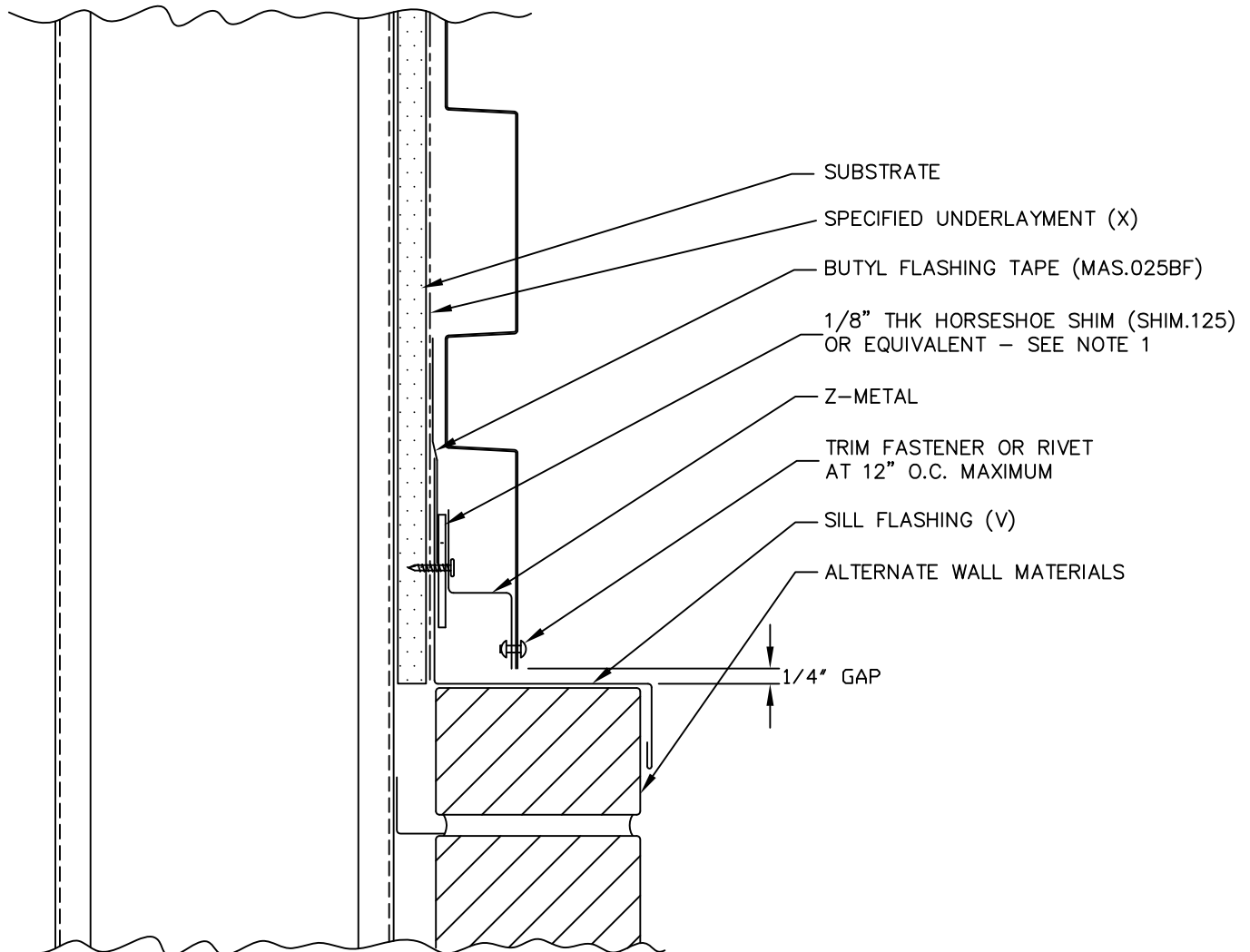
FLEX SERIES
HORIZONTAL INSTALL.



BASE

FXH-05

TRIM	DIM. A	USAGE
ZC226	1 1/4"	1.2FX FLUSH MOUNT
ZC220	1 3/4"	1.2FX W/0.5" STANDOFF
ZC224	1 1/2"	1.5FX FLUSH MOUNT
ZC227	2"	1.5FX W/0.5" STANDOFF



1. SHIM USED FOR MOISTURE CONTROL (DRAINAGE) IN
FLUSH MOUNT APPLICATIONS.

(X) - NOT BY AEP SPAN

(V) - DIMENSIONS VARY BASED ON PROJECT CONDITIONS

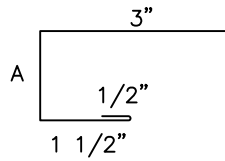


FLEX SERIES
HORIZONTAL INSTALL.

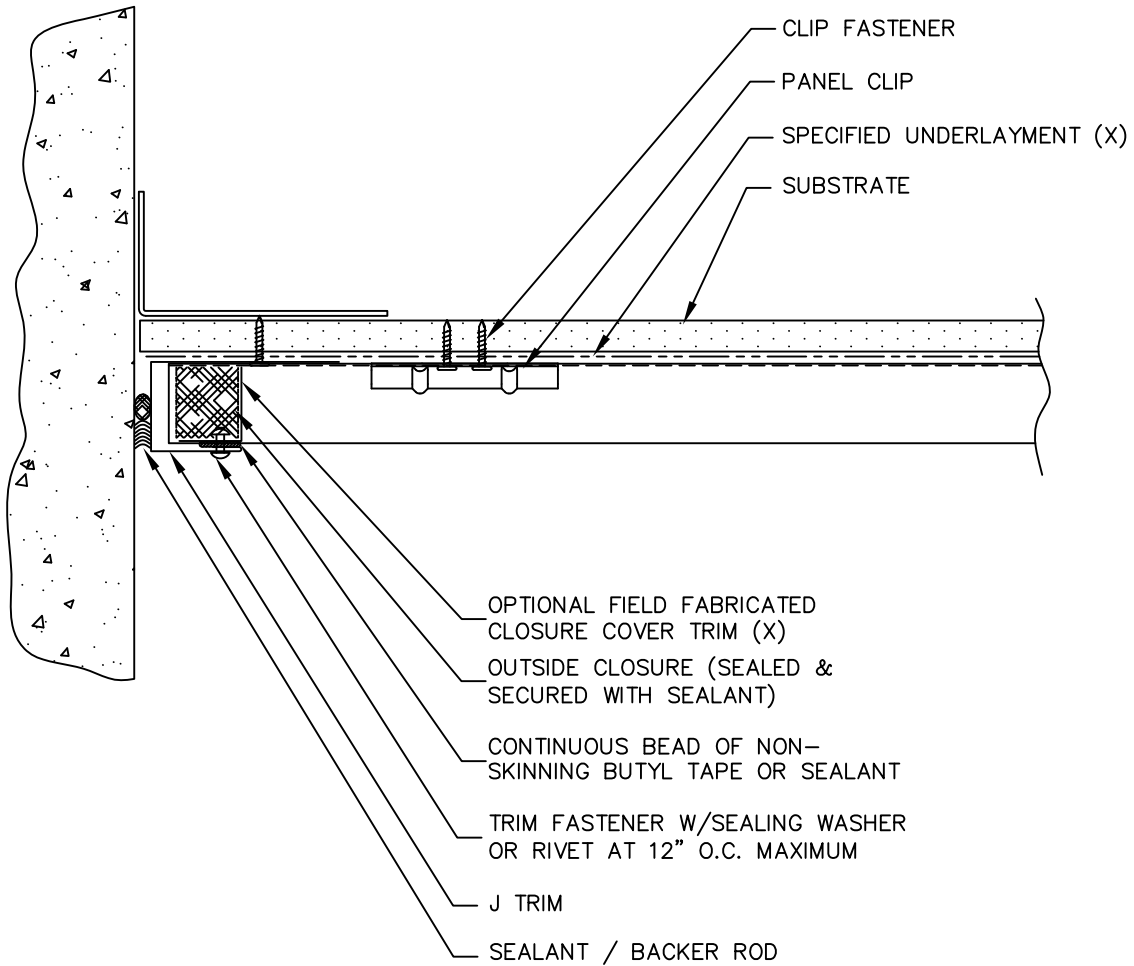


SILL

FXH-06



TRIM	DIM A	USAGE
JT109	1 1/2"	1.2FX FLUSH MOUNT
JT110	2"	1.2FX W/0.5" STANDOFF
JT107	1 3/4"	1.5FX FLUSH MOUNT
JT111	2 1/4"	1.5FX W/0.5" STANDOFF



(X) – NOT BY AEP SPAN

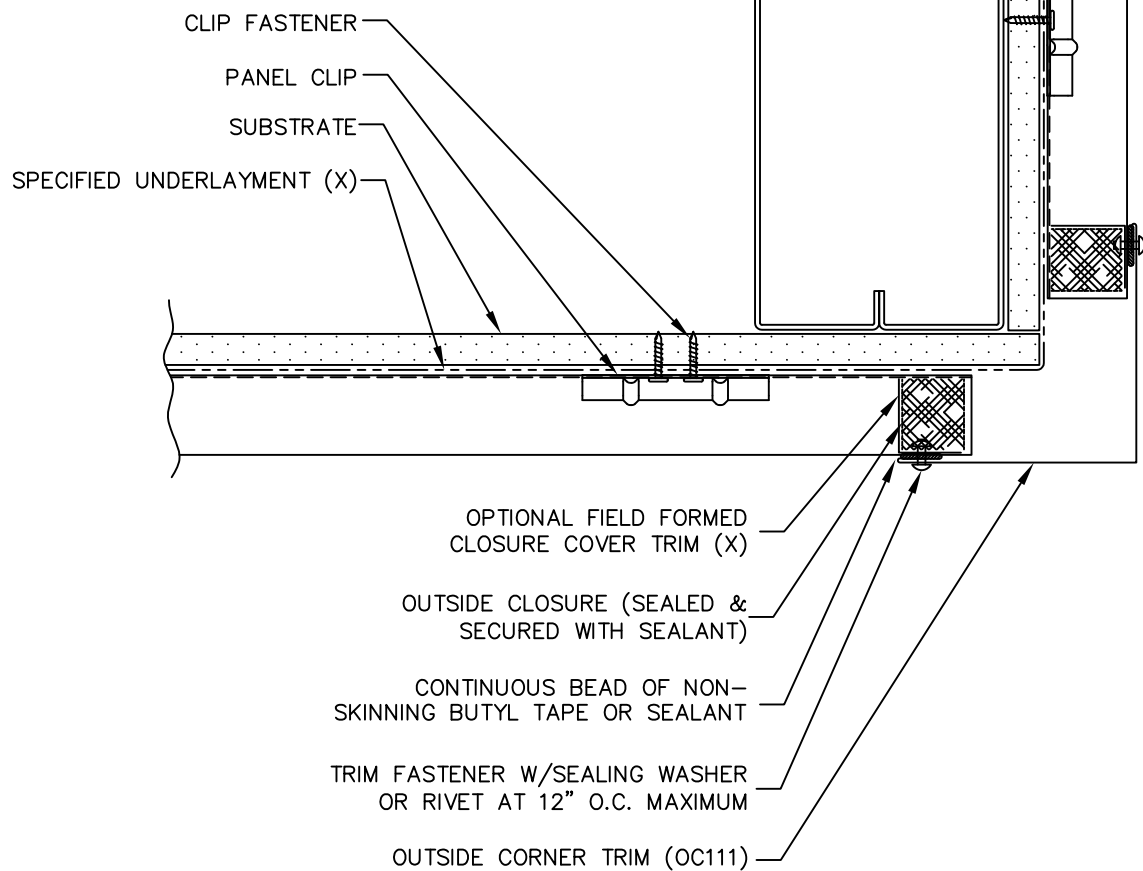
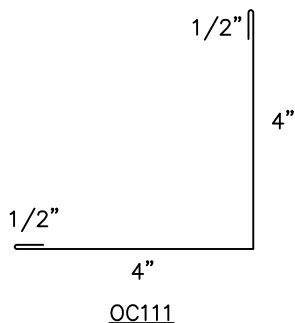


FLEX SERIES
HORIZONTAL INSTALL.



END WALL

FXH-07



(X) – NOT BY AEP SPAN

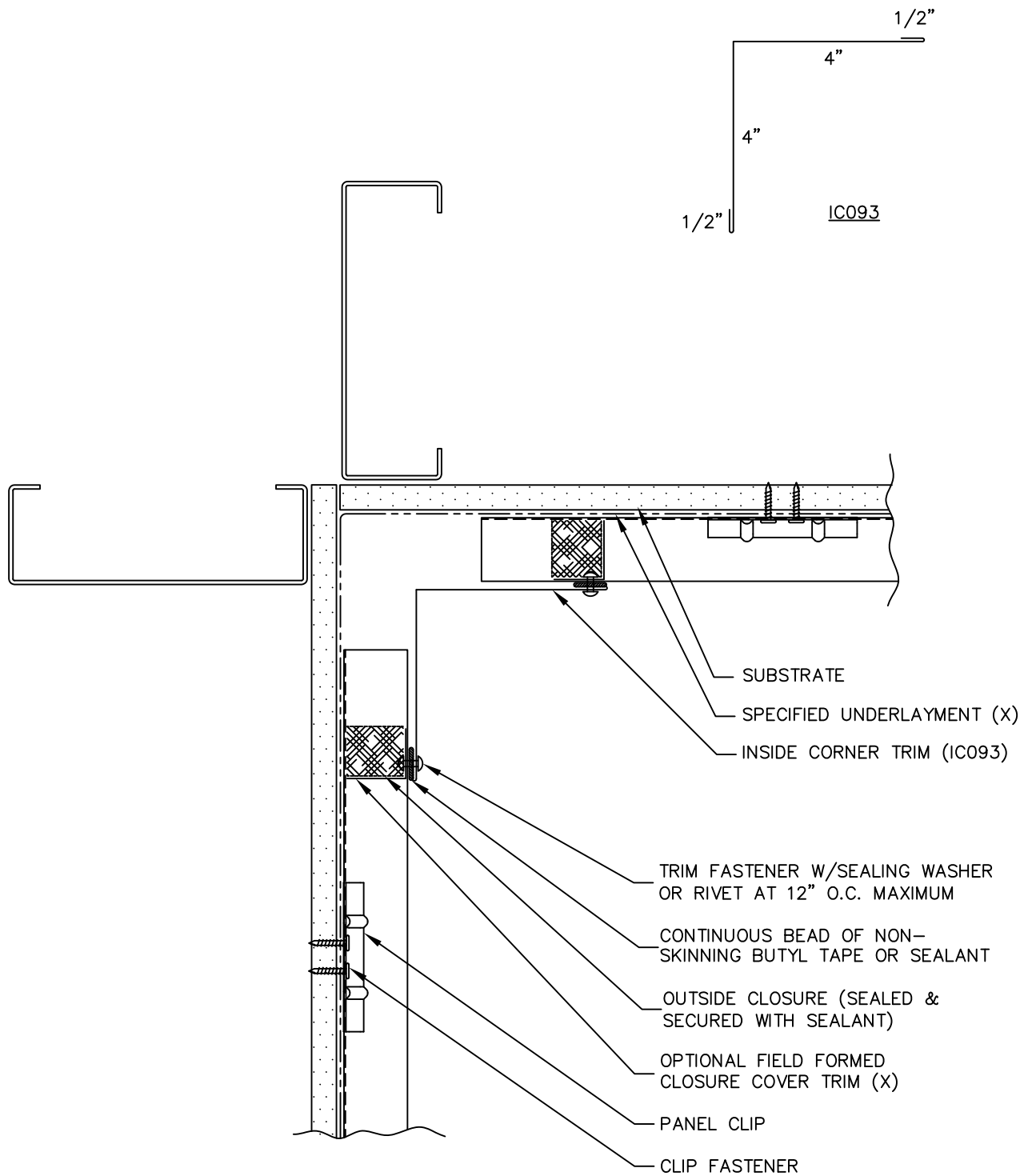


FLEX SERIES
HORIZONTAL INSTALL.



OUTSIDE CORNER

FXH-08



(X) – NOT BY AEP SPAN



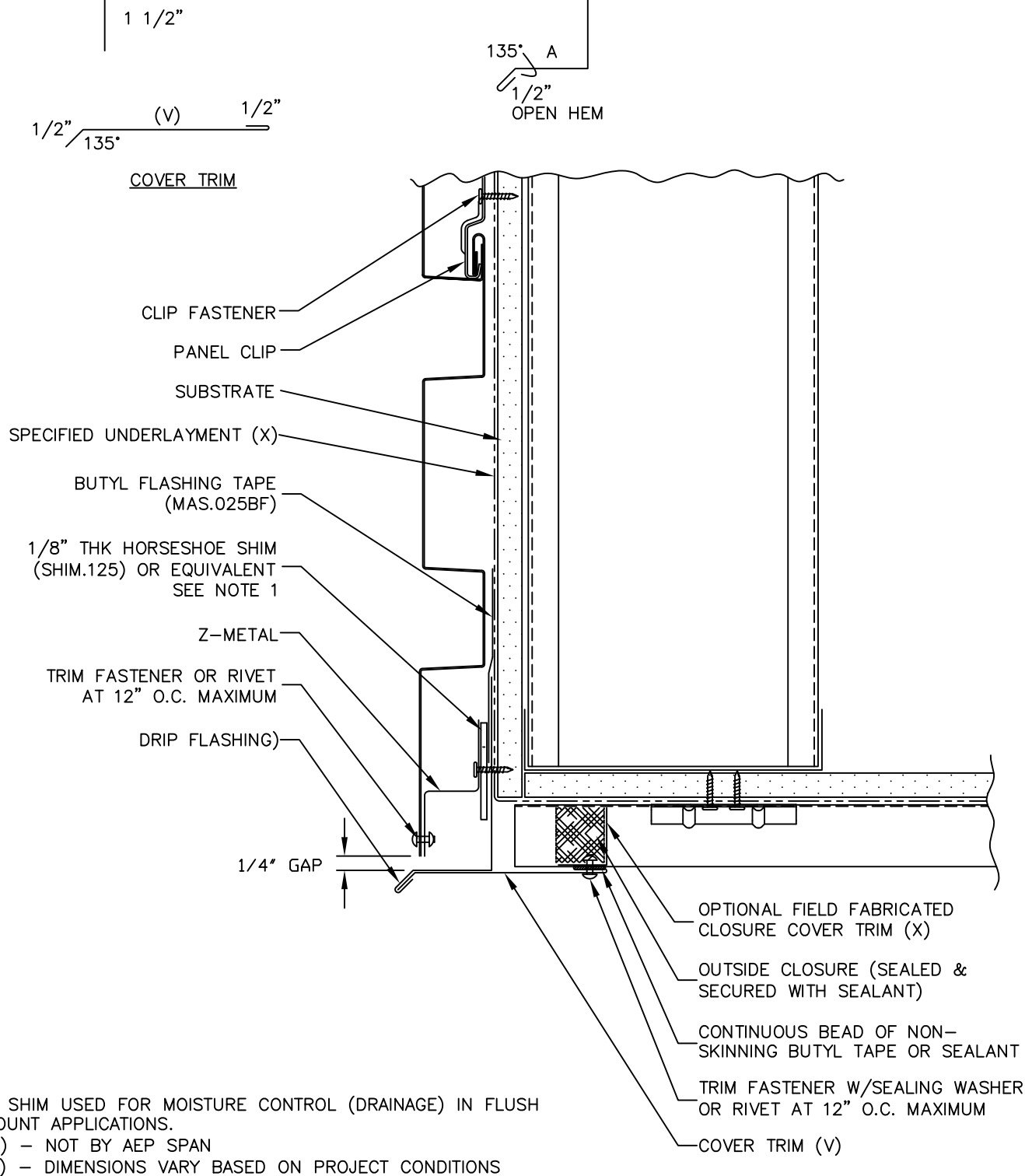
FLEX SERIES HORIZONTAL INSTALL.



INSIDE CORNER

FXH-09

	TRIM	DIM A	USAGE		TRIM	DIM A	USAGE
	ZC226	1 1/4"	1.2FX FLUSH MOUNT		DF028	1 1/2"	1.2FX FLUSH MOUNT
	ZC220	1 3/4"	1.2FX W/0.5" STANDOFF		DF029	2"	1.2FX W/0.5" STANDOFF
	ZC224	1 1/2"	1.5FX FLUSH MOUNT		DF030	1 3/4"	1.5FX FLUSH MOUNT
	ZC227	2"	1.5FX W/0.5" STANDOFF		DF031	2 1/4"	1.5FX W/0.5" STANDOFF

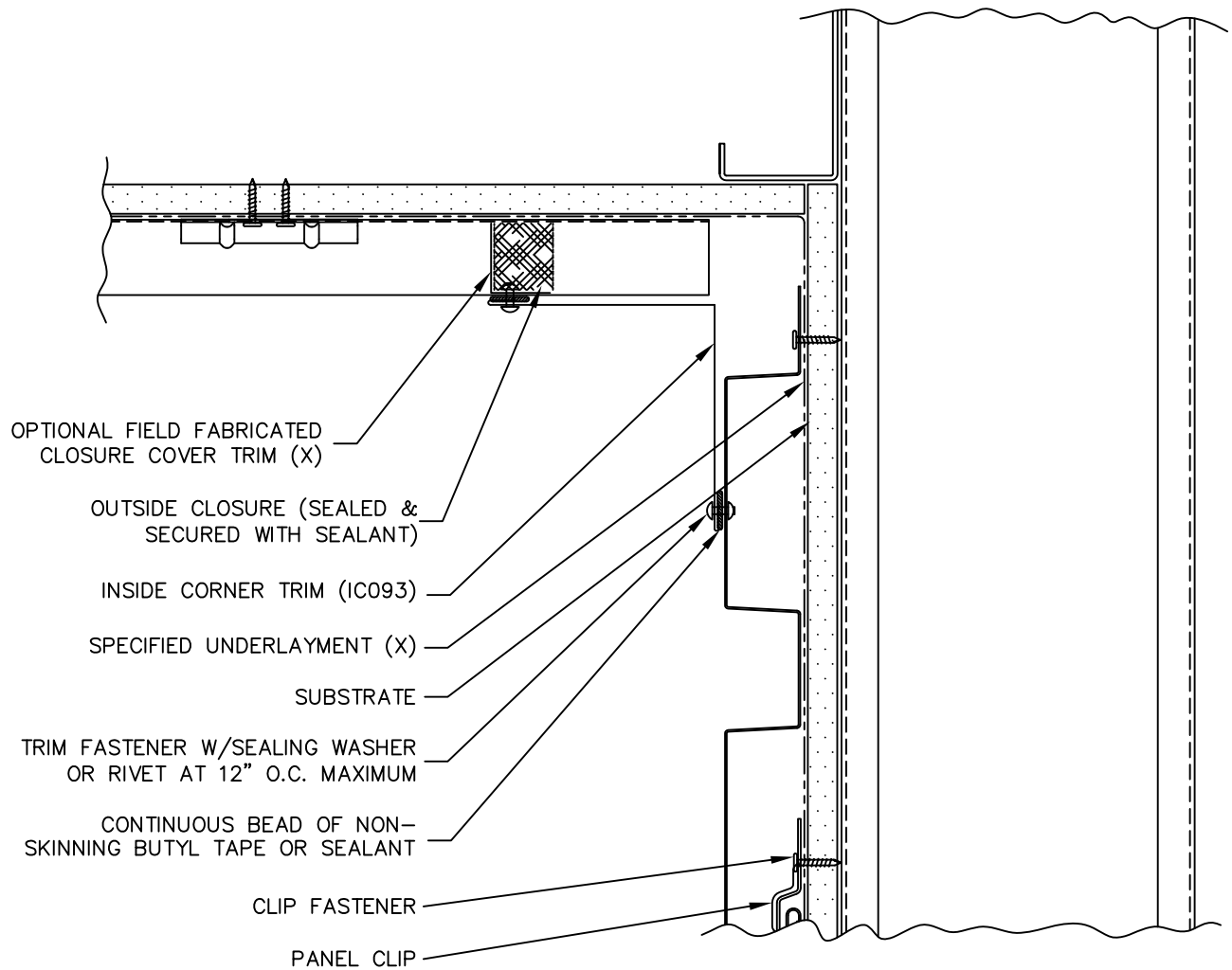
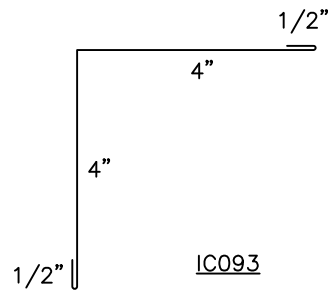


FLEX SERIES HORIZONTAL INSTALL.



SOFFIT (FRONT)

FXH-10



(X) – NOT BY AEP SPAN

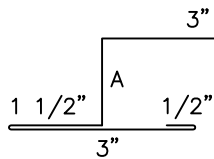


FLEX SERIES
HORIZONTAL INSTALL.

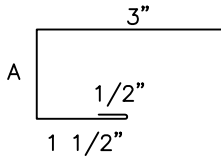
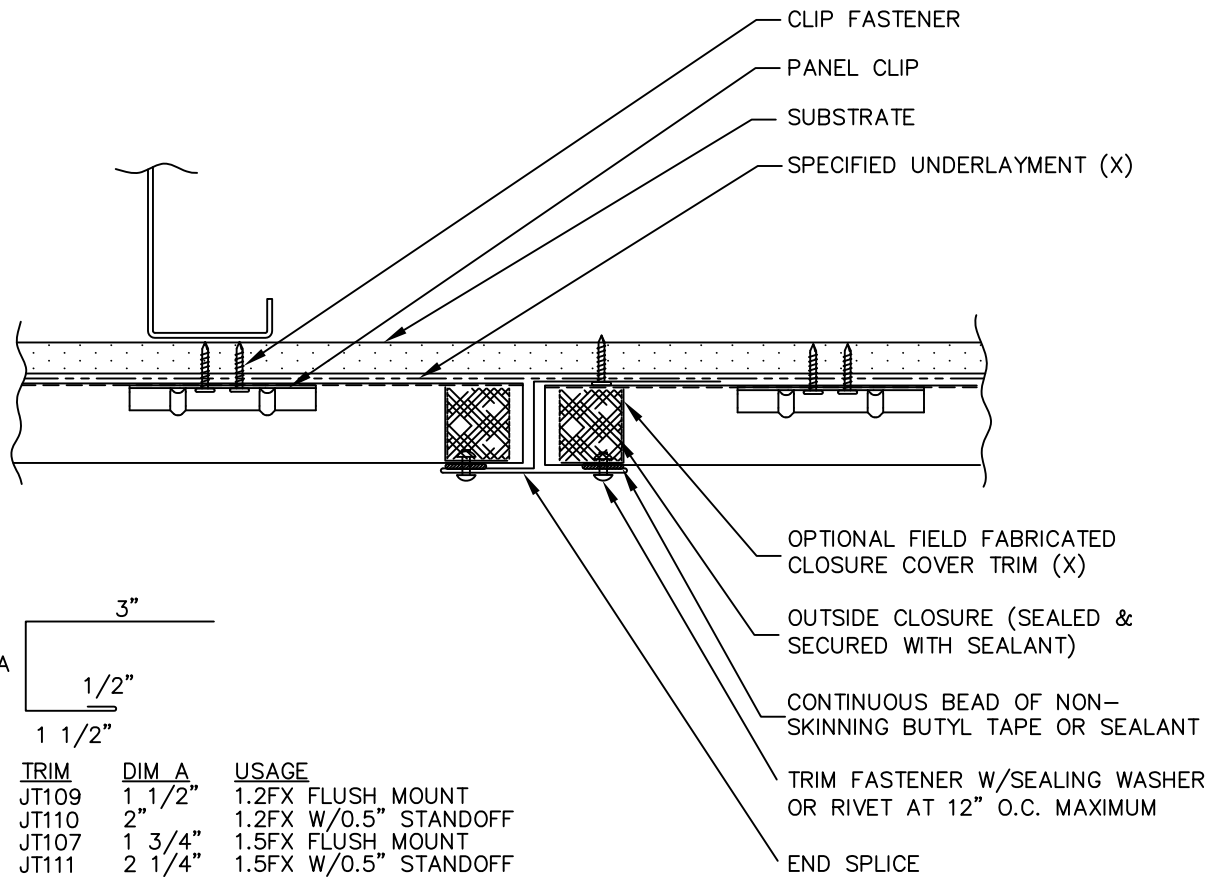


SOFFIT (BACK)

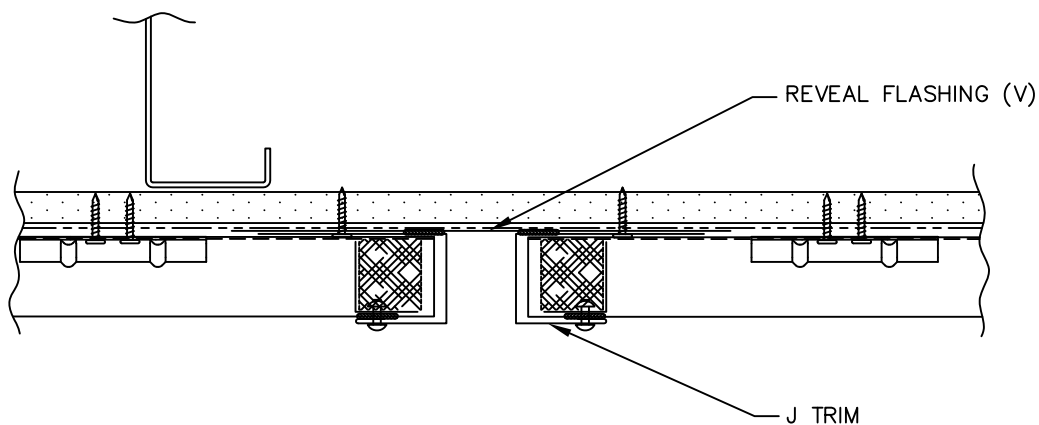
FXH-11



TRIM	DIM A	USAGE
MT111	1 1/2"	1.2FX FLUSH MOUNT
MT112	2"	1.2FX W/0.5" STANDOFF
MT109	1 3/4"	1.5FX FLUSH MOUNT
MT113	2 1/4"	1.5FX W/0.5" STANDOFF



TRIM	DIM A	USAGE
JT109	1 1/2"	1.2FX FLUSH MOUNT
JT110	2"	1.2FX W/0.5" STANDOFF
JT107	1 3/4"	1.5FX FLUSH MOUNT
JT111	2 1/4"	1.5FX W/0.5" STANDOFF



(X) - NOT BY AEP SPAN
(V) - DIMENSIONS VARY BASED ON PROJECT CONDITIONS



FLEX SERIES
HORIZONTAL INSTALL.

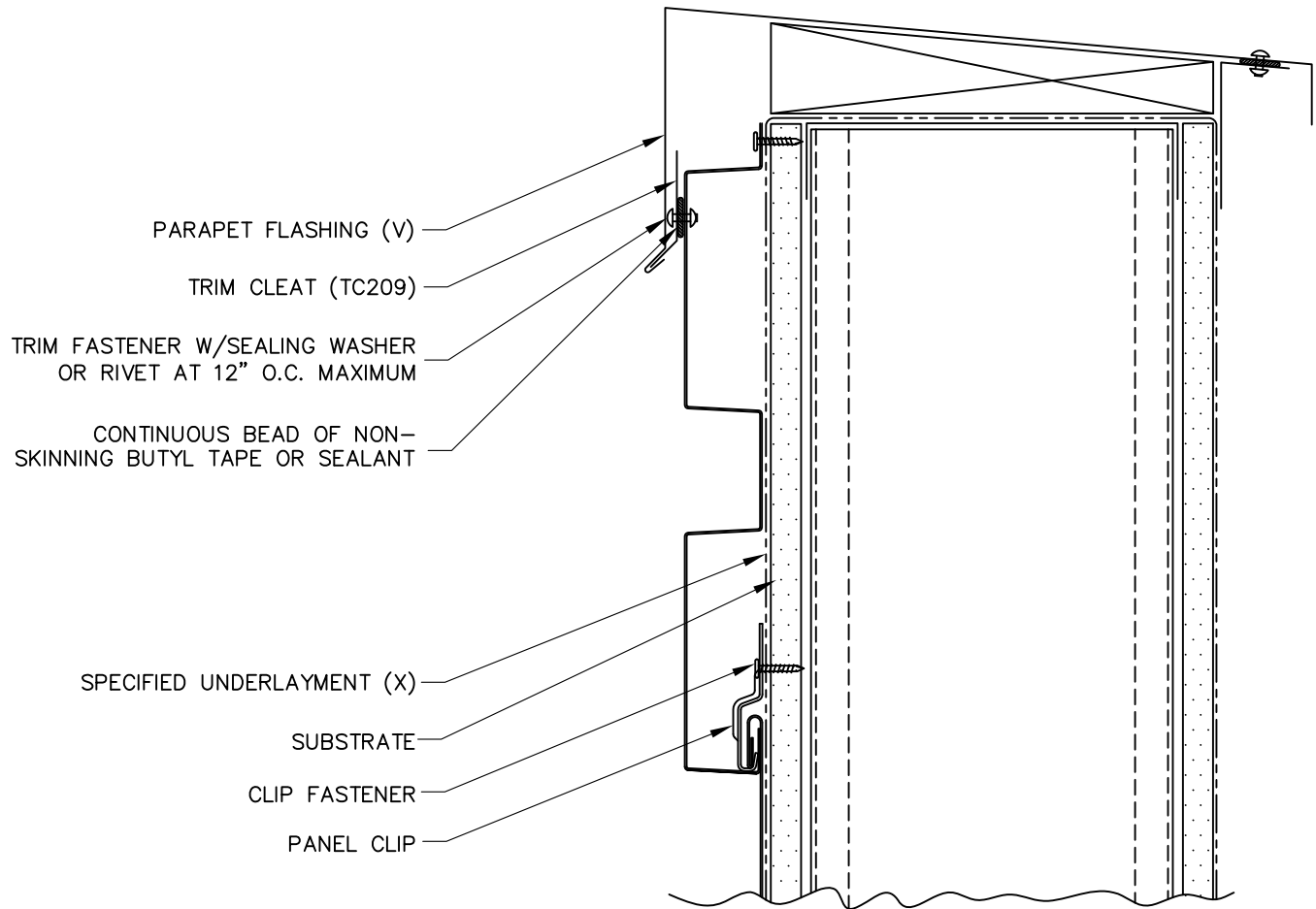


END SPLICE (W/TRIM)

FXH-12

1 1/2"
135°
5/8"

TC209



(X) - NOT BY AEP SPAN
(V) - DIMENSIONS VARY BASED ON PROJECT CONDITIONS

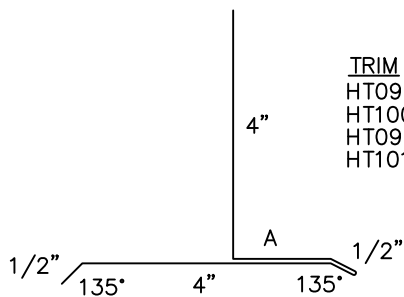


FLEX SERIES
HORIZONTAL INSTALL.

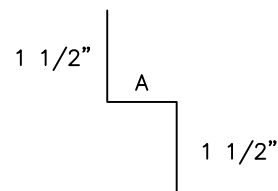


PARAPET

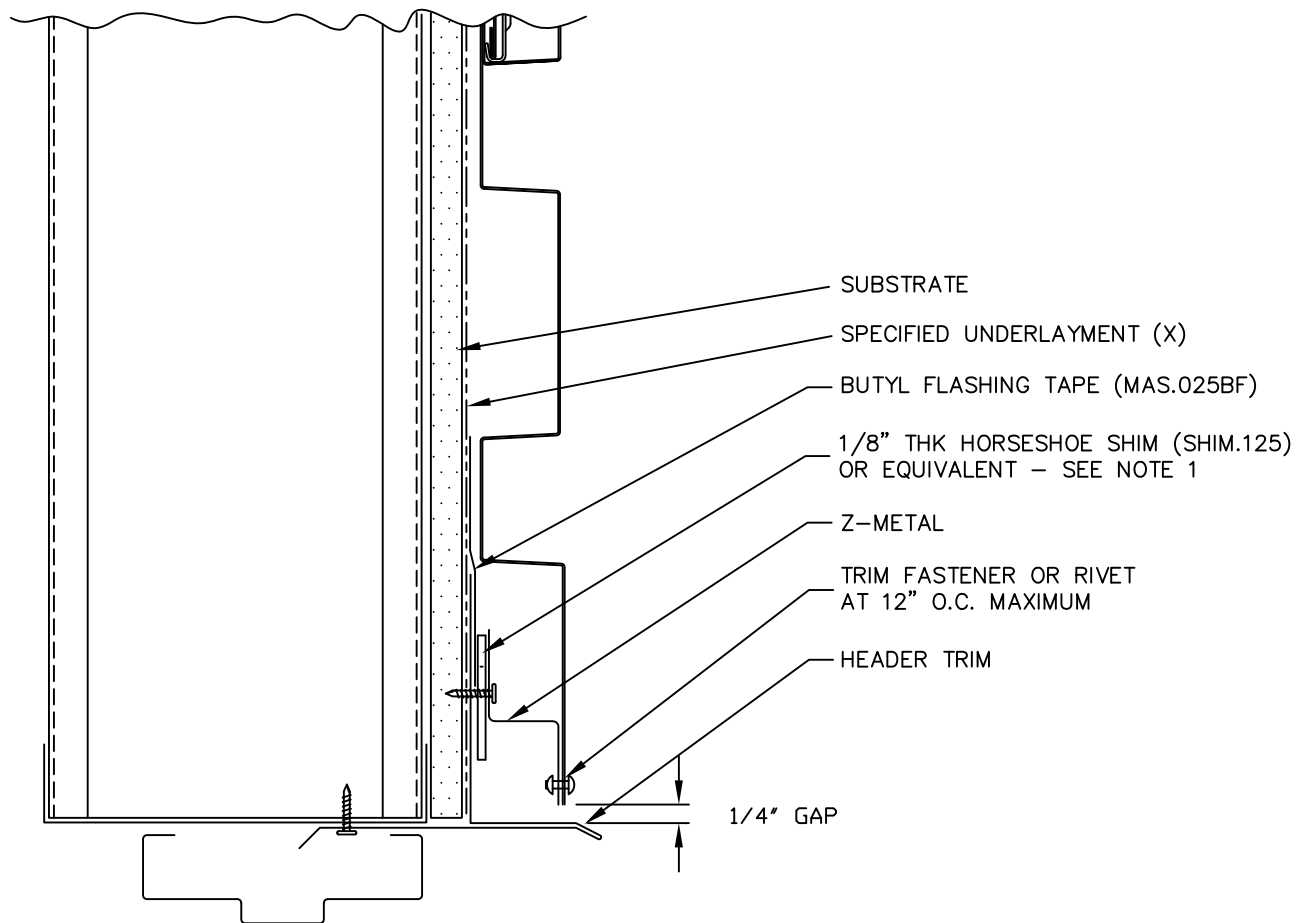
FXH-13



TRIM	DIM. A	USAGE
HT095	1 1/2"	1.2FX FLUSH MOUNT
HT100	2"	1.2FX W/0.5" STANDOFF
HT091	1 3/4"	1.5FX FLUSH MOUNT
HT101	2 1/4"	1.5FX W/0.5" STANDOFF



TRIM	DIM. A	USAGE
ZC226	1 1/4"	1.2FX FLUSH MOUNT
ZC220	1 3/4"	1.2FX W/0.5" STANDOFF
ZC224	1 1/2"	1.5FX FLUSH MOUNT
ZC227	2"	1.5FX W/0.5" STANDOFF



1. SHIM USED FOR MOISTURE CONTROL
(DRAINAGE) IN FLUSH MOUNT APPLICATIONS.
(X) - NOT BY AEP SPAN

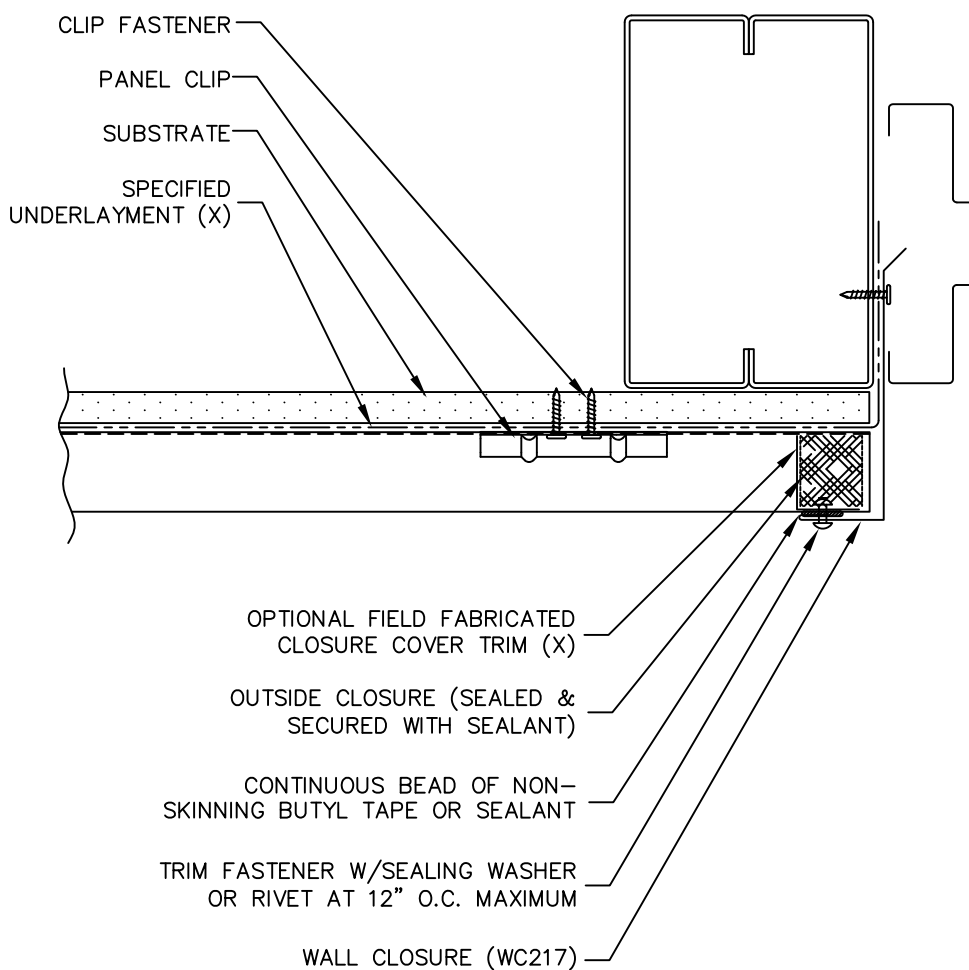
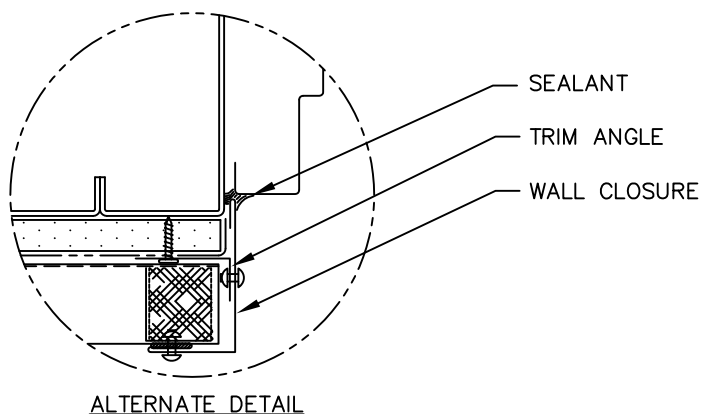
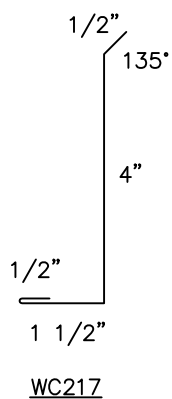


FLEX SERIES
HORIZONTAL INSTALL.



DOOR / WINDOW
(HEAD)

FXH-14



(X) – NOT BY AEP SPAN

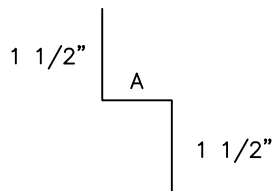


FLEX SERIES
HORIZONTAL INSTALL.

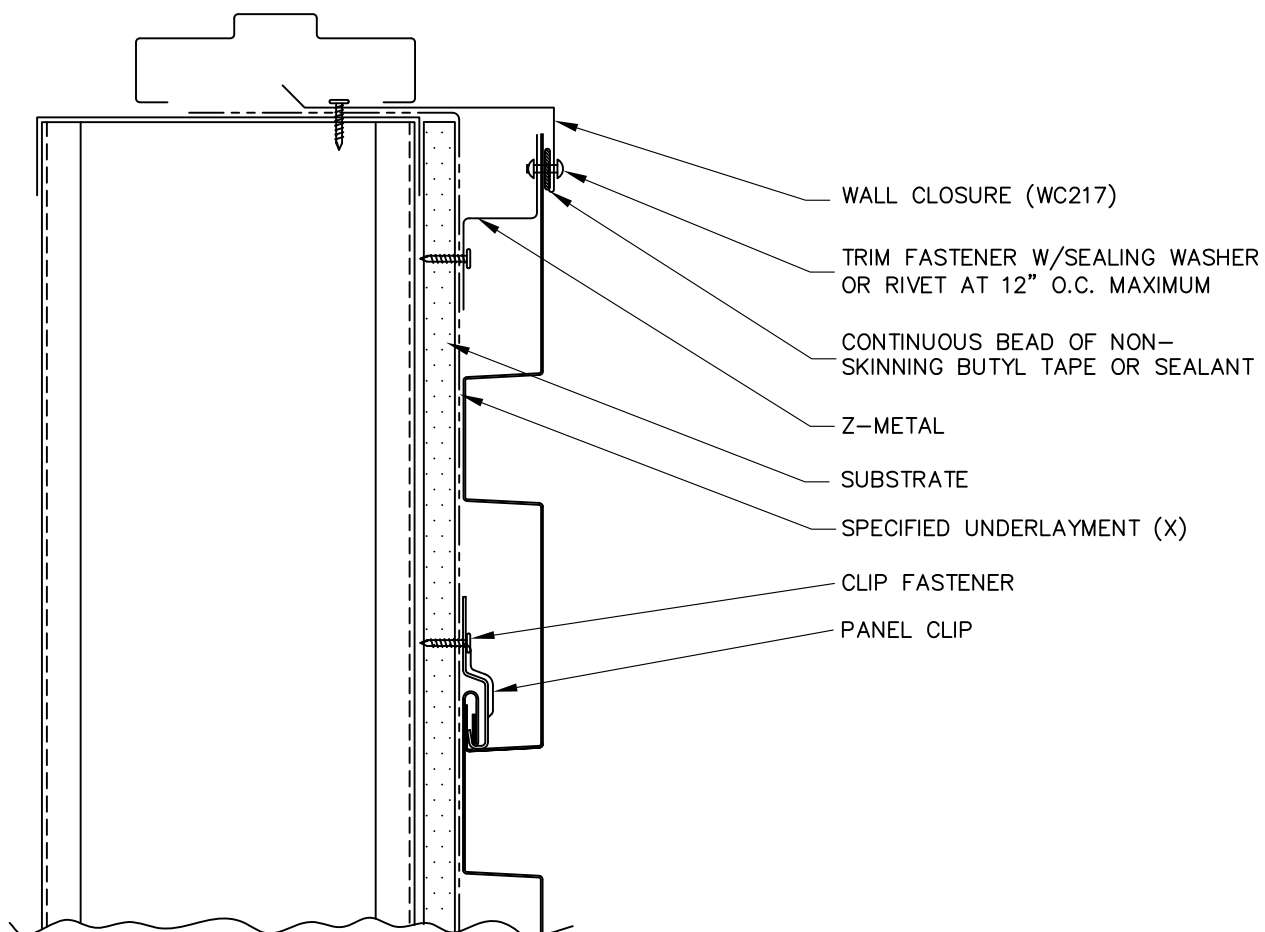
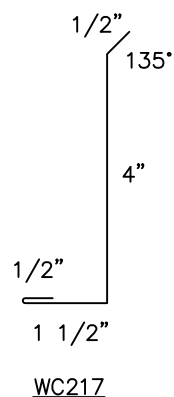


DOOR / WINDOW
(JAMB)

FXH-15



TRIM	DIM A	USAGE
ZC226	1 1/4"	1.2FX FLUSH MOUNT
ZC220	1 3/4"	1.2FX W/0.5" STANDOFF
ZC224	1 1/2"	1.5FX FLUSH MOUNT
ZC227	2"	1.5FX W/0.5" STANDOFF



(X) – NOT BY AEP SPAN



FLEX SERIES
HORIZONTAL INSTALL.



DOOR / WINDOW
(SILL)

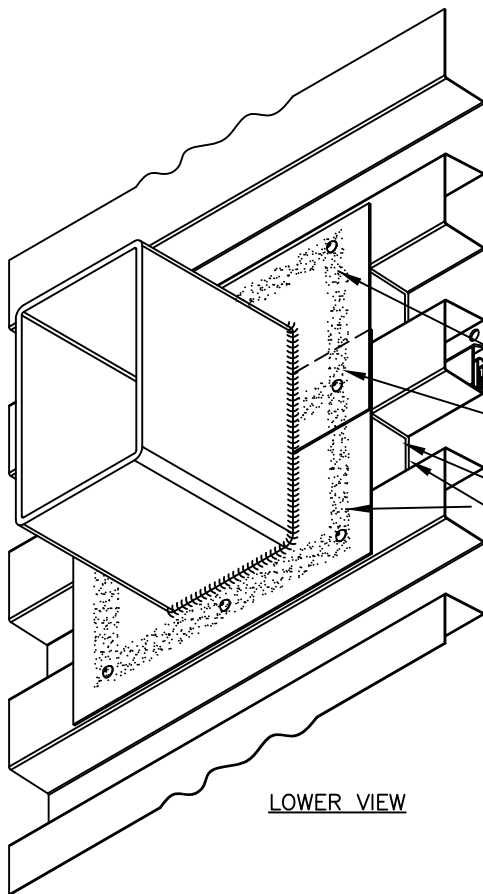
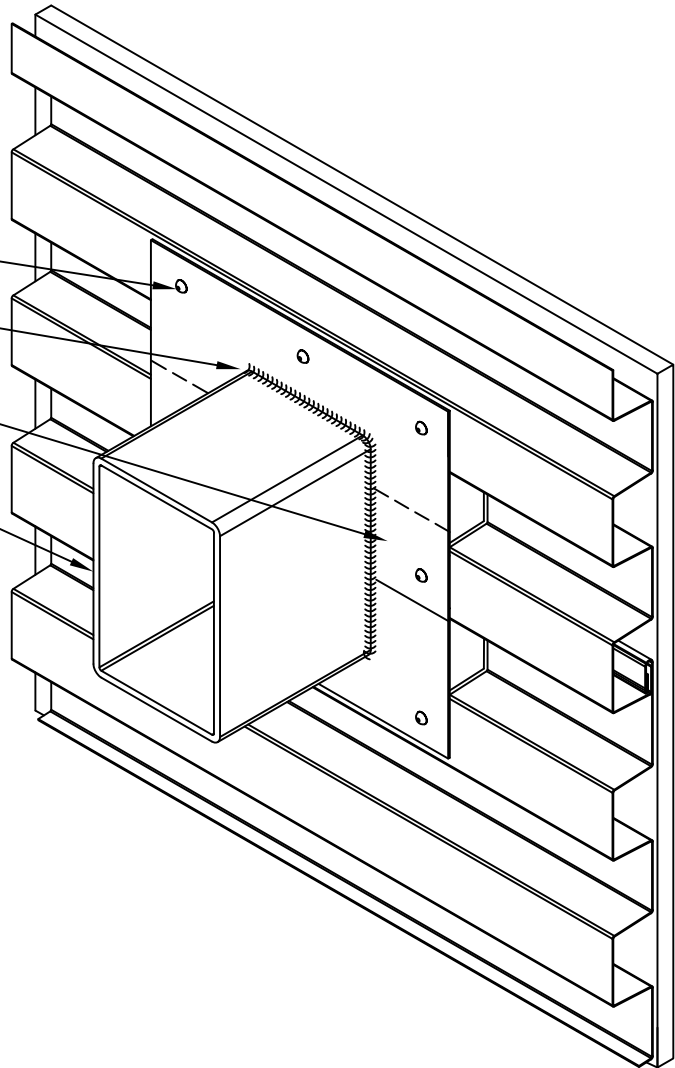
FXH-16

TRIM FASTENER W/SEALING
WASHER, OR RIVET

SEALANT

OVERLAP UPPER/LOWER
FLASHINGS

WALL PENETRATION



LOWER VIEW

SEAL PERIMETER OF FLASHINGS AND
ALL TRIM OVERLAPS WITH A
CONTINUOUS BEAD OF NON-
SKINNING BUTYL TAPE OR SEALANT

OPTIONAL FIELD FABRICATED
CLOSURE COVER TRIM (X)

OUTSIDE CLOSURE (SEALED &
SECURED WITH SEALANT)

(X) - NOT BY AEP SPAN

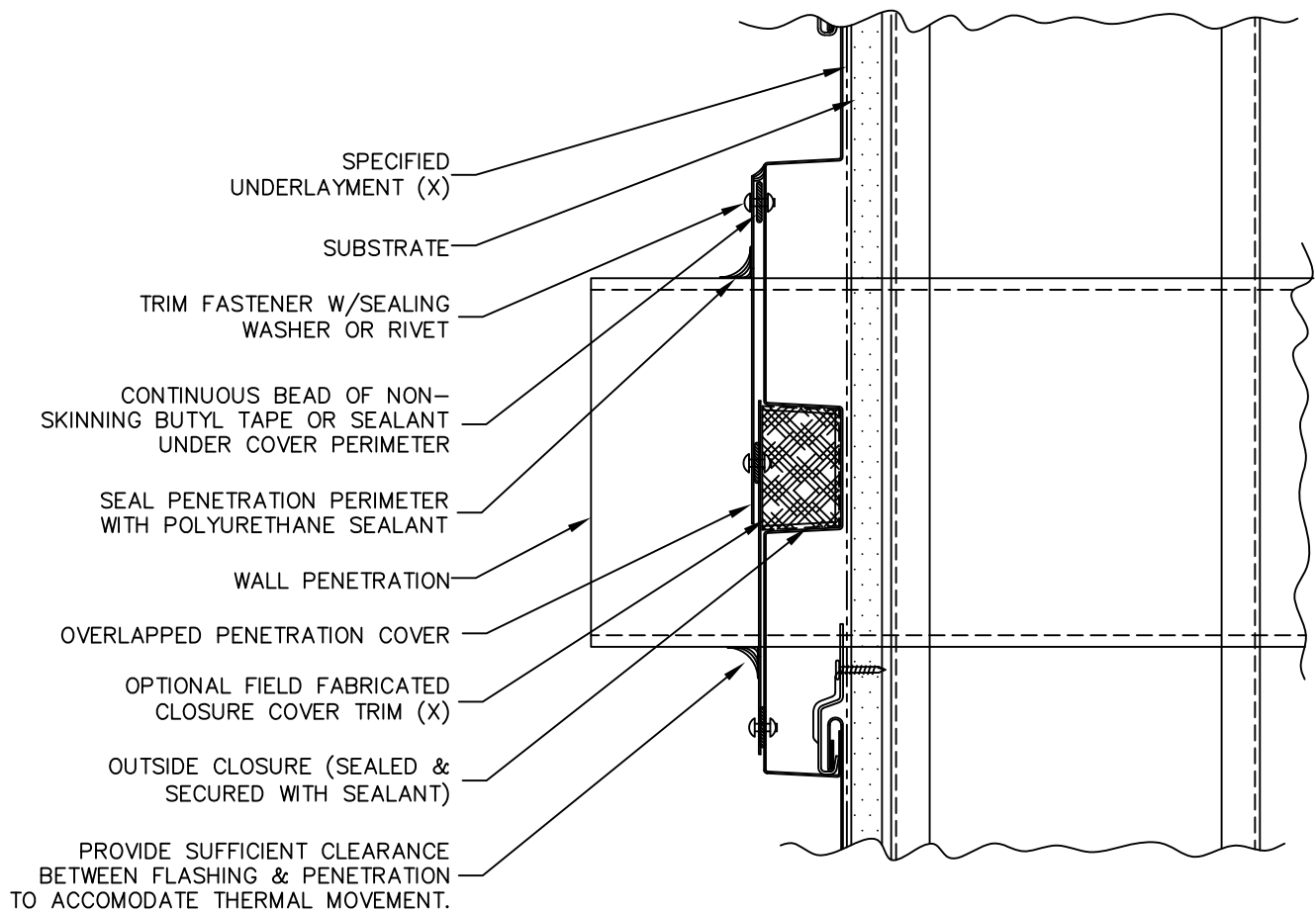


FLEX SERIES
HORIZONTAL INSTALL.



WALL PENETRATION (3D)

FXH-17



(X) – NOT BY AEP SPAN

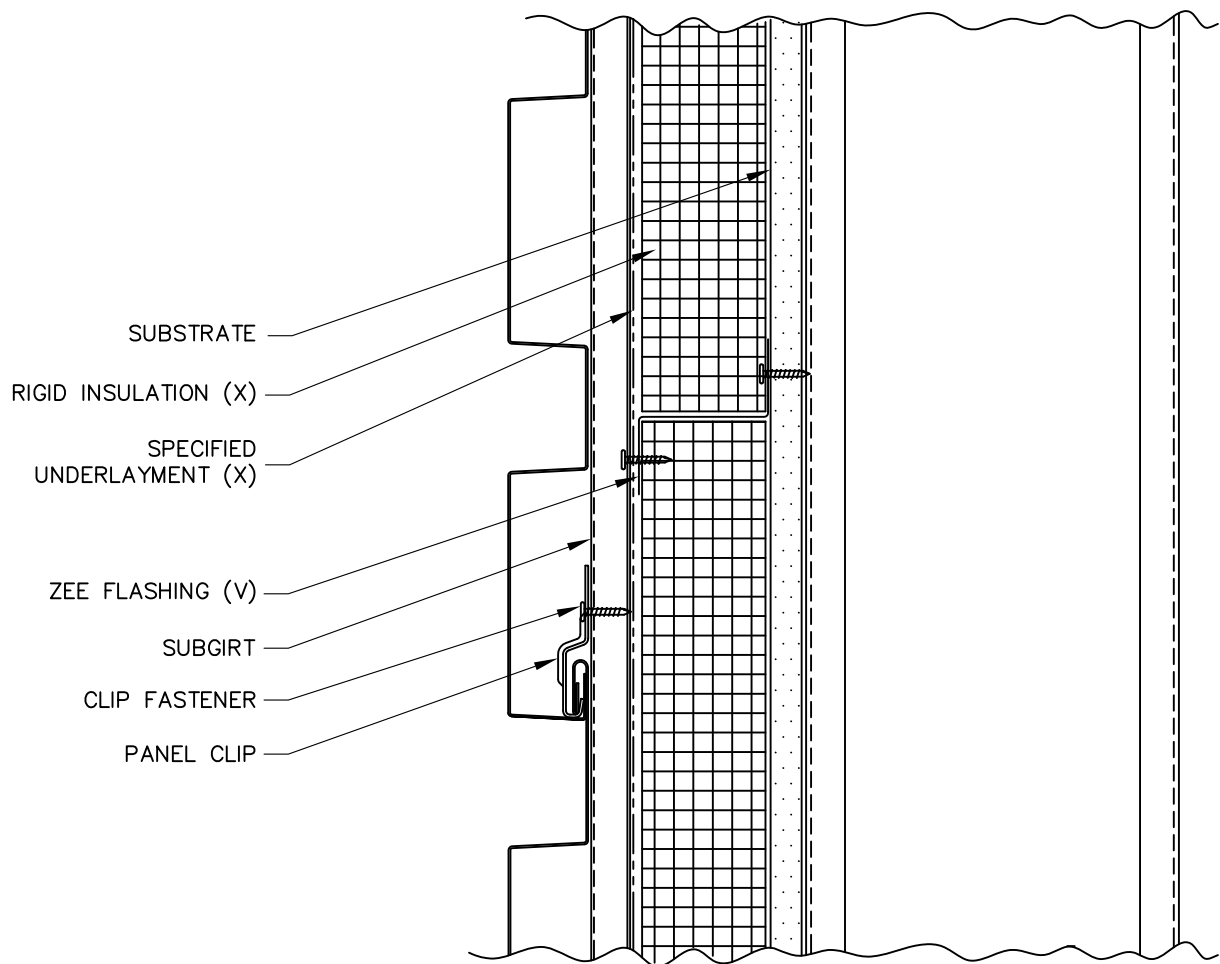


FLEX SERIES
HORIZONTAL INSTALL.



WALL PENETRATION

FXH-18



(X) - NOT BY AEP SPAN
 (V) - DIMENSIONS AND GAGE VARY BASED ON PROJECT CONDITIONS



FLEX SERIES
 HORIZONTAL INSTALL.



RIGID INSULATION

FXH-19

MANUFACTURING FACILITY:

Anchorage, Alaska

2441 Cinnabar Loop
Anchorage, AK 99507
Alaska Customer Service: 904-267-3004

Fontana, California

10905 Beech Avenue
Fontana, CA 92337

CORPORATE HEADQUARTERS:

ASC Profiles LLC

2110 Enterprise Boulevard
West Sacramento, CA 95691

CUSTOMER SERVICE:

800-733-4955

Visit us at:

www.aepspan.com

