

DW-2000R - VERTICAL INSTALLATION

AR-PJ-01-DW2RV	DW-2000R PANEL PROFILE	REVISION	
AR-PJ-02-DW2RV	DW-2000R VERTICAL PANEL JOINT	0	3/5/24
AR-PJ-03-DW2RV	DW-2000R ALTERNATE PANEL PROFILE 12"		
AR-PJ-04-DW2RV	DW-2000R ALTERNATE PANEL PROFILE 24"		
AR-PJ-05-DW2RV	DW-2000R PANEL INTEGRATION		
AR-PJ-06-DW2RV	DW-2000R TO DW-4000 INTEGRATION		
AR-PJ-07-DW2RV	DW-2000R TO DW-2000 INTEGRATION		
AR-BS-01-DW2RV	BASE DETAIL - FLUSH EXTRUSION		
AR-BS-02-DW2RV	BASE DETAIL - OVERHANG EXTRUSION		
AR-BS-03-DW2RV	BASE DETAIL - FLUSH TRIM		
AR-BS-04-DW2RV	BASE DETAIL - OVERHANG TRIM		
AR-OC-01-DW2RV	OUTSIDE CORNER - EXTRUSION		
AR-OC-02-DW2RV	OUTSIDE CORNER - TRIM		
AR-IC-01-DW2RV	INSIDE CORNER - EXTRUSION		
AR-IC-02-DW2RV	INSIDE CORNER - TRIM		
AR-FO-01-DW2RV	FRAMED OPENING HEAD - EXTRUSION		
AR-FO-02-DW2RV	FRAMED OPENING HEAD - TRIM		
AR-FO-03-DW2RV	FRAMED OPENING JAMB - EXTRUSION		
AR-FO-04-DW2RV	FRAMED OPENING JAMB - TRIM		
AR-FO-05-DW2RV	FRAMED OPENING SILL - EXTRUSION		
AR-FO-06-DW2RV	FRAMED OPENING SILL - TRIM		
AR-FO-07-DW2RV	TRIM AT FRAMED OPENING		
AR-FO-08-DW2RV	TRIM LAP W/ FLEXWRAP AT FRAMED OPENING		
AR-SF-01-DW2RV	WALL TO SOFFIT - EXTRUSION		
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AR-SJ-01-DW2RV	STACK JOINT - EXTRUSION		
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AR-SJ-03-DW2RV	STACK JOINT - 2-PIECE EXTRUSION		
AR-PR-01-DW2RV	PARAPET W/ FLUSH EXTRUSION		
AR-PR-02-DW2RV	PARAPET W/ FLUSH TRIM		

INDEX SHEET 1

DETAIL #: XX-XX-XX-DW2RV

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AR-PE-01-DW2RV	BEAM PENETRATION
AR-PE-02-DW2RV	WALL PENETRATION
AR-PE-03-DW2RV	PIPE PENETRATION
AR-SJ-01-DW2RV	2.5", 3",4" STAGGERED PANEL JOINT
AR-SJ-02-DW2RV	2.5", 3",4" STAGGERED PANEL JOINT
AR-TL-01-DW2RV	TRIM END LAP
AR-TL-02-DW2RV	TRIM LAP WITH HEM
AR-TL-03-DW2RV	MENDING PLATE "SHINGLE" LAP
AR-TL-04-DW2RV	TRIM END LAP WITH LAP STRIP
AR-TL-05-DW2RV	ACCESSORIES
AR-TL-06-DW2RV	2 ½" EXTRUSIONS
AR-TL-07-DW2RV	2 ½" EXTRUSIONS
AR-TL-08-DW2RV	3" EXTRUSIONS
AR-TL-09-DW2RV	3" EXTRUSIONS
AR-TL-10-DW2RV	4" EXTRUSIONS
AR-TL-11-DW2RV	4" EXTRUSIONS
AR-TL-12-DW2RV	EXTRUSION LAP STRIPS

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THESE DETAILS ARE PROVIDED AS A GUIDELINE FOR PROPER PANEL AND ASSOCIATED COMPONENT INSTALLATION, AND ARE BASED ON INDUSTRY ACCEPTED PRACTICES.

LOCATION OF VAPOR BARRIERS AND ASSOCIATED SEALANTS IN THESE DETAILS ARE BASED ON TYPICAL DESIGN PRACTICES FOR MOST U.S. CLIMACTIC ZONES. (THE PRIMARY VAPOR BARRIER IS PLACED ON THE "WARM" SIDE IN WINTER).

CONTACT KINGSPAN TECHNICAL SERVICES FOR SPECIFIC PROJECT FASTENING REQUIREMENTS

EXTRUSION SHAPES / ENGAGEMENT MAY VARY FROM THOSE SHOWN.

PROJECTS LOCATED IN AREAS SUBJECT TO EXTREME COLD AND/OR HIGH SNOW LOADS MAY REQUIRE MODIFICATIONS TO THESE DETAILS - CONTACT KINGSPAN TECHNICAL SERVICES FOR SPECIFIC PROJECT RECOMMENDATIONS.

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DISCLAIMER

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CORE DEPTHS:
2.5", 3", 4"

REVEAL: N/A

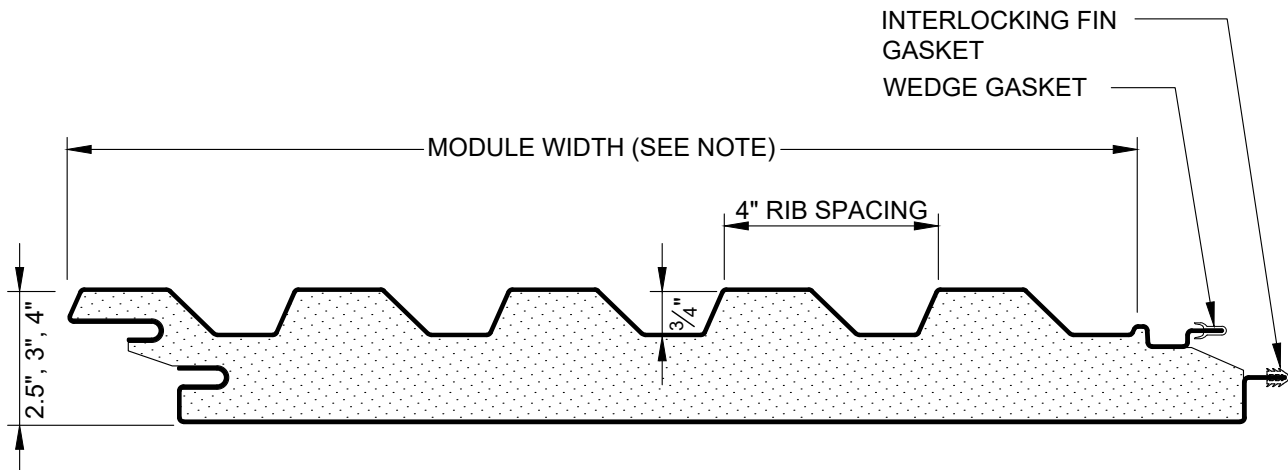
STEEL GAUGES:
EXTERIOR: 22
INTERIOR: 24, 22

PANEL ORIENTATION: VERTICAL

MODULE WIDTH:
QUADCORE: 12", 16", 20", 24"
ISO LAMINATED BOARD: 24" (FM APPROVED)

EMBOSSING:
EXTERIOR: NON-EMBOSSSED, STUCCO
INTERIOR: NON-EMBOSSSED, STUCCO

LENGTHS:
MINIMUM: 8'-0" (NON-FM: 2'-0")
MAXIMUM: 24'-0"



NFPA 285 COMPLIANCE TABLE

PANEL TYPE	CORE	LEAST PANEL WIDTH	THERMAL BARRIER (WALL)	THERMAL BARRIER (HEAD /SILL/JAMB/STACK JOINT)
DESIGNWALL 2000R (VERTICAL)	PIR	< 24"	NON-COMPLIANT PANEL	NON-COMPLIANT PANEL
DESIGNWALL 2000R (VERTICAL)	PIR	≥ 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	< 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	≥ 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER

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PANEL PROFILE

DETAIL #: AR-PJ-01-DW2RV

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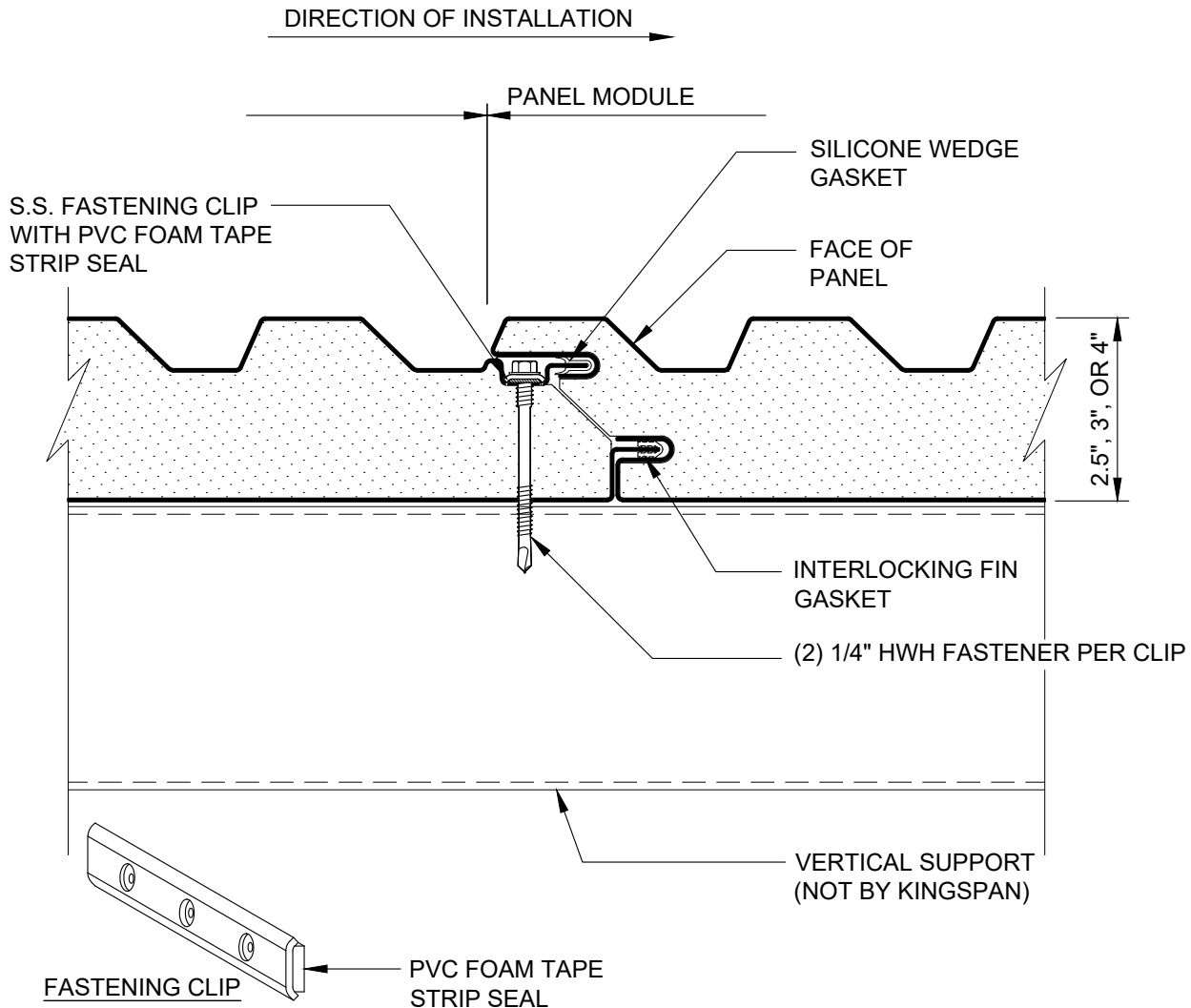
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CONTACT KINGSPAN TECHNICAL SERVICES FOR SPECIFIC PROJECT FASTENING REQUIREMENTS



NFPA 285 COMPLIANCE TABLE

PANEL TYPE	CORE	LEAST PANEL WIDTH	THERMAL BARRIER (WALL)	THERMAL BARRIER (HEAD /SILL/JAMB/STACK JOINT)
DESIGNWALL 2000R (VERTICAL)	PIR	< 24"	NON-COMPLIANT PANEL	NON-COMPLIANT PANEL
DESIGNWALL 2000R (VERTICAL)	PIR	≥ 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	< 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	≥ 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER

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VERTICAL PANEL
JOINT

DETAIL #: AR-PJ-02-DW2RV

RELEASE: 2024

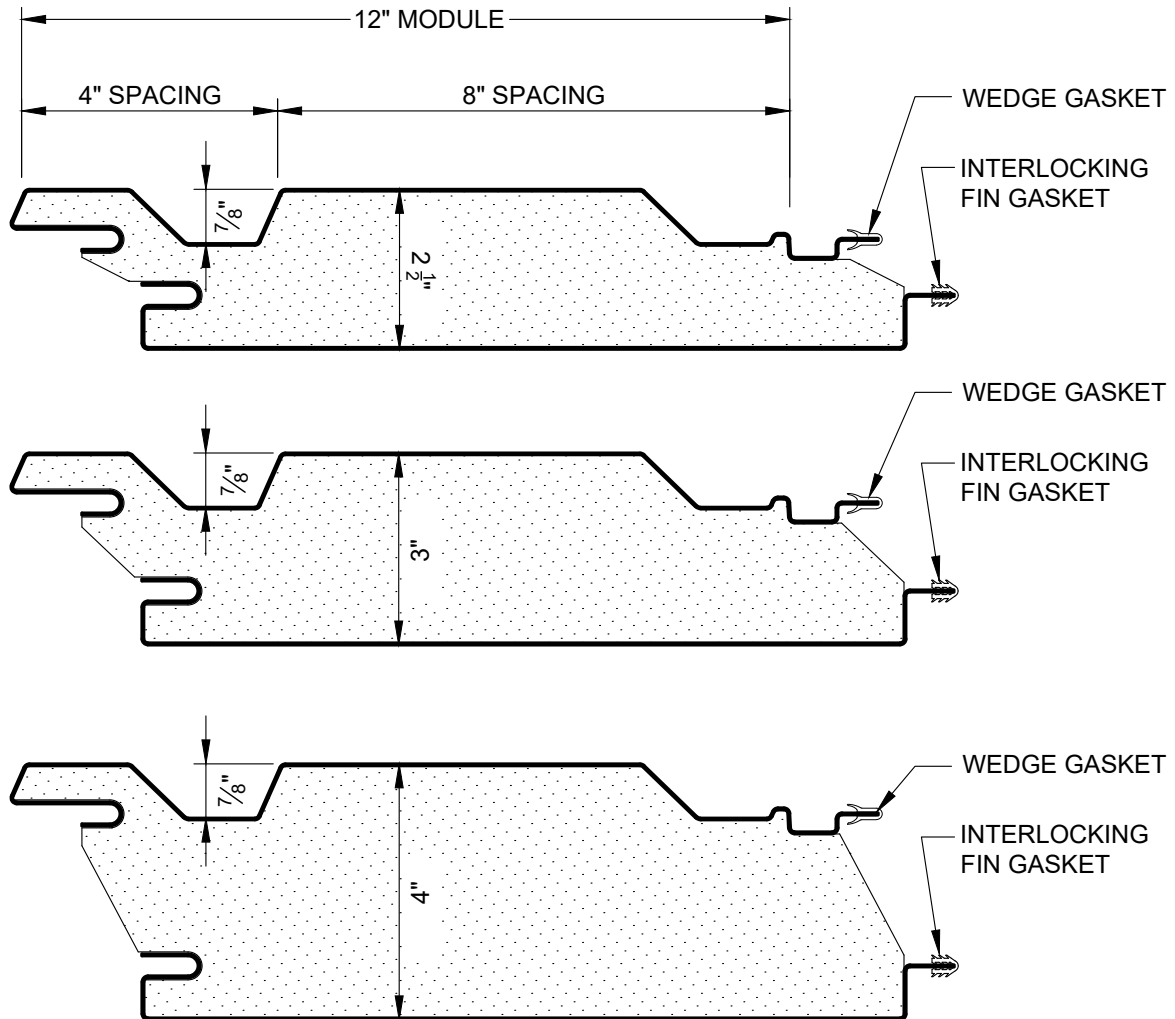
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DESIGNWALL 2000R ALTERNATE "459" PROFILES

NFPA 285 COMPLIANCE TABLE

PANEL TYPE	CORE	LEAST PANEL WIDTH	THERMAL BARRIER (WALL)	THERMAL BARRIER (HEAD /SILL/JAMB/STACK JOINT)
DESIGNWALL 2000R (VERTICAL)	PIR	< 24"	NON-COMPLIANT PANEL	NON-COMPLIANT PANEL
DESIGNWALL 2000R (VERTICAL)	PIR	≥ 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	< 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	≥ 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER

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ALTERNATE PANEL
PROFILE 12"

DETAIL #: AR-PJ-03-DW2RV

RELEASE: 2024

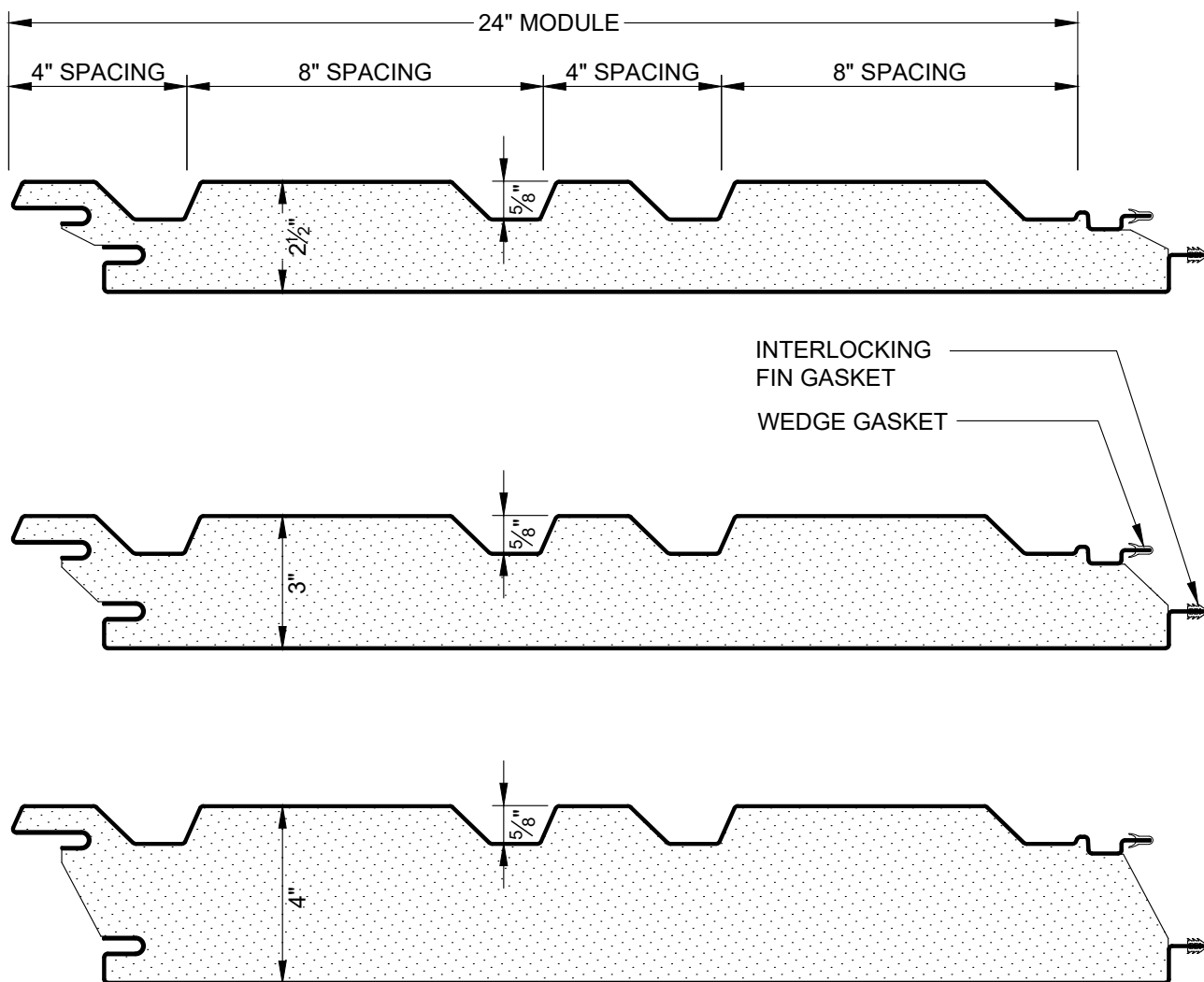
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DESIGNWALL 2000R ALTERNATE "459" PROFILES
NOT TO SCALE

NFPA 285 COMPLIANCE TABLE

PANEL TYPE	CORE	LEAST PANEL WIDTH	THERMAL BARRIER (WALL)	THERMAL BARRIER (HEAD /SILL/JAMB/STACK JOINT)
DESIGNWALL 2000R (VERTICAL)	PIR	< 24"	NON-COMPLIANT PANEL	NON-COMPLIANT PANEL
DESIGNWALL 2000R (VERTICAL)	PIR	≥ 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	< 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	≥ 24"	NOT REQUIRED	FLASHING W/O THERMAL BARRIER

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ALTERNATE PANEL
PROFILE 24"

DETAIL #: AR-PJ-04-DW2RV

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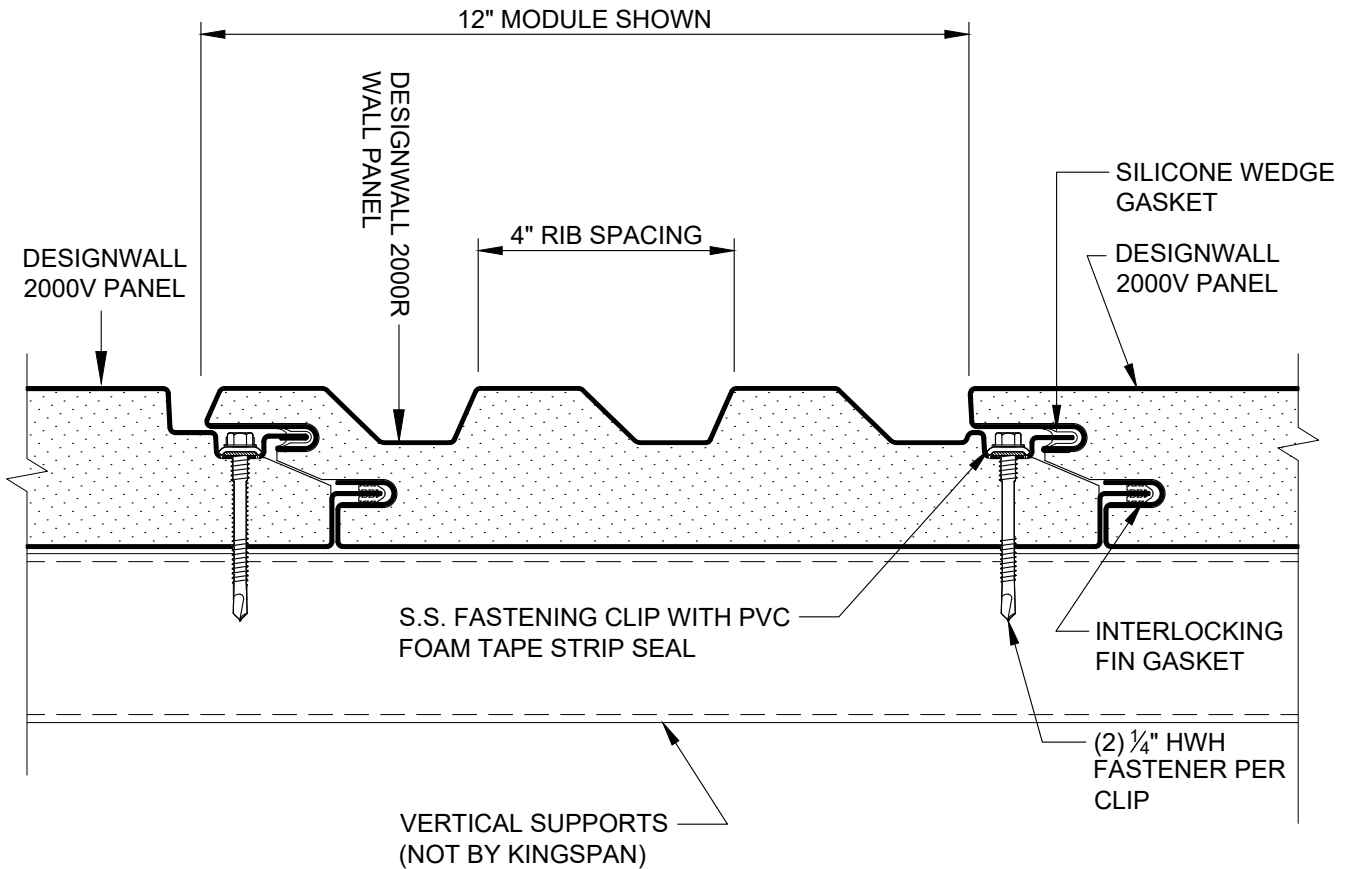
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NFPA 285 COMPLIANCE TABLE

PANEL TYPE	CORE	LEAST PANEL WIDTH	THERMAL BARRIER (WALL)	THERMAL BARRIER (HEAD /SILL/JAMB/STACK JOINT)
DESIGNWALL 2000R (VERTICAL)	PIR	< 24"	NON-COMPLIANT PANEL	NON-COMPLIANT PANEL
DESIGNWALL 2000R (VERTICAL)	PIR	≥ 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	< 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	≥ 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS

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PANEL
INTEGRATION

DETAIL #: AR-PJ-05-DW2RV

RELEASE: 2024

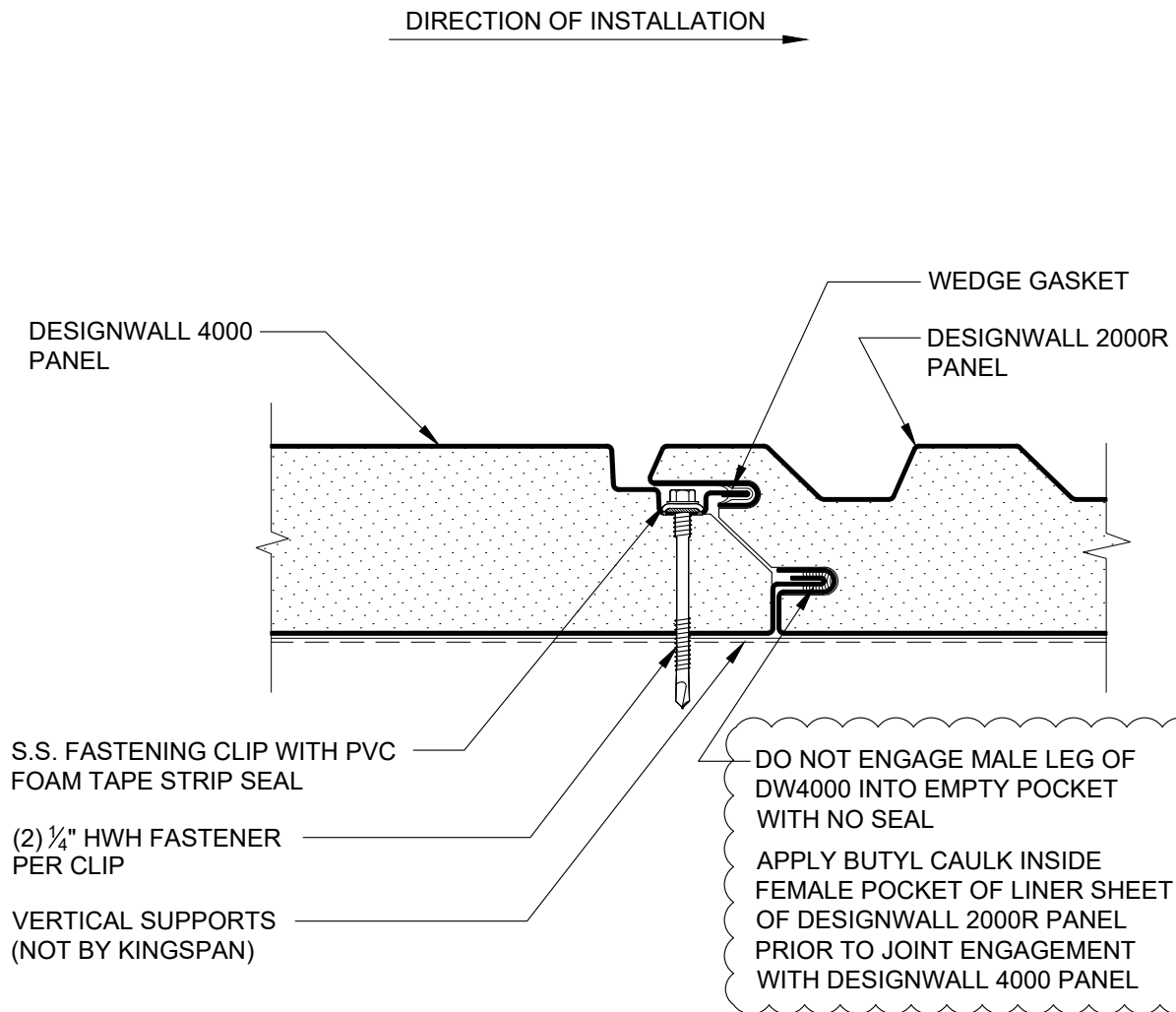
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NFPA 285 COMPLIANCE TABLE

PANEL TYPE	CORE	LEAST PANEL WIDTH	THERMAL BARRIER (WALL)	THERMAL BARRIER (HEAD /SILL/JAMB/STACK JOINT)
DESIGNWALL 2000R (VERTICAL)	PIR	< 24"	NON-COMPLIANT PANEL	NON-COMPLIANT PANEL
DESIGNWALL 2000R (VERTICAL)	PIR	≥ 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	< 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	≥ 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS

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DW200R - DW4000
INTEGRATION

DETAIL #: AR-PJ-06-DW2RV

RELEASE: 2024

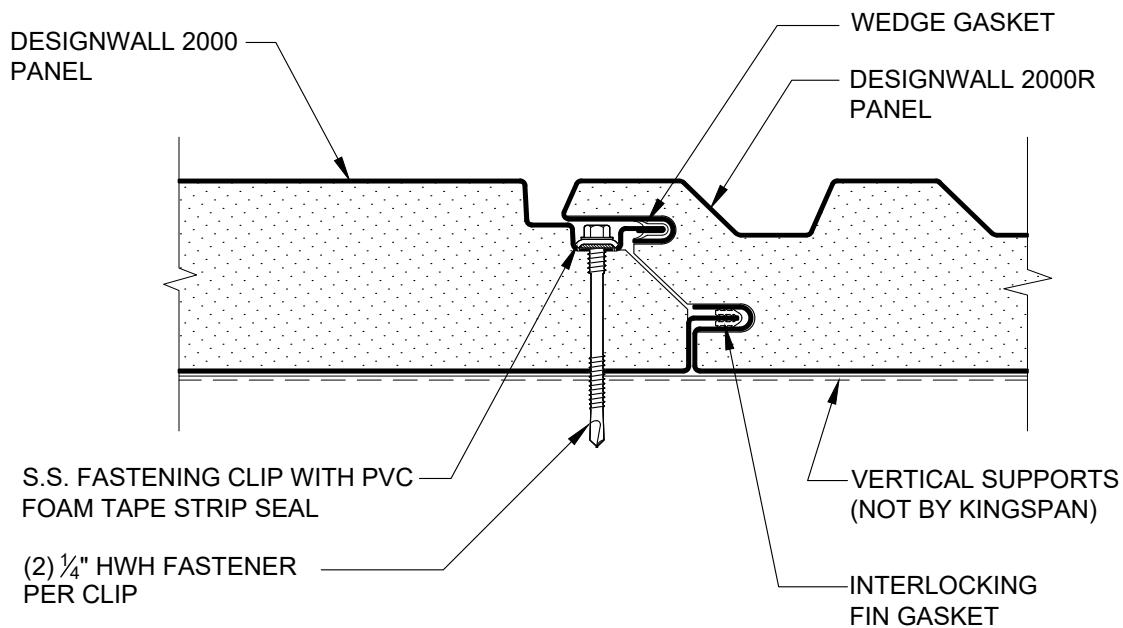
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NFPA 285 COMPLIANCE TABLE

PANEL TYPE	CORE	LEAST PANEL WIDTH	THERMAL BARRIER (WALL)	THERMAL BARRIER (HEAD /SILL/JAMB/STACK JOINT)
DESIGNWALL 2000R (VERTICAL)	PIR	< 24"	NON-COMPLIANT PANEL	NON-COMPLIANT PANEL
DESIGNWALL 2000R (VERTICAL)	PIR	≥ 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	< 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS
DESIGNWALL 2000R (VERTICAL)	QUADCORE B	≥ 24"	NOT REQUIRED	REFER TO PANEL TYPE TABLE WHERE OPENING OCCURS

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DW2000R - DW2000
INTEGRATION

DETAIL #: AR-PJ-07-DW2RV

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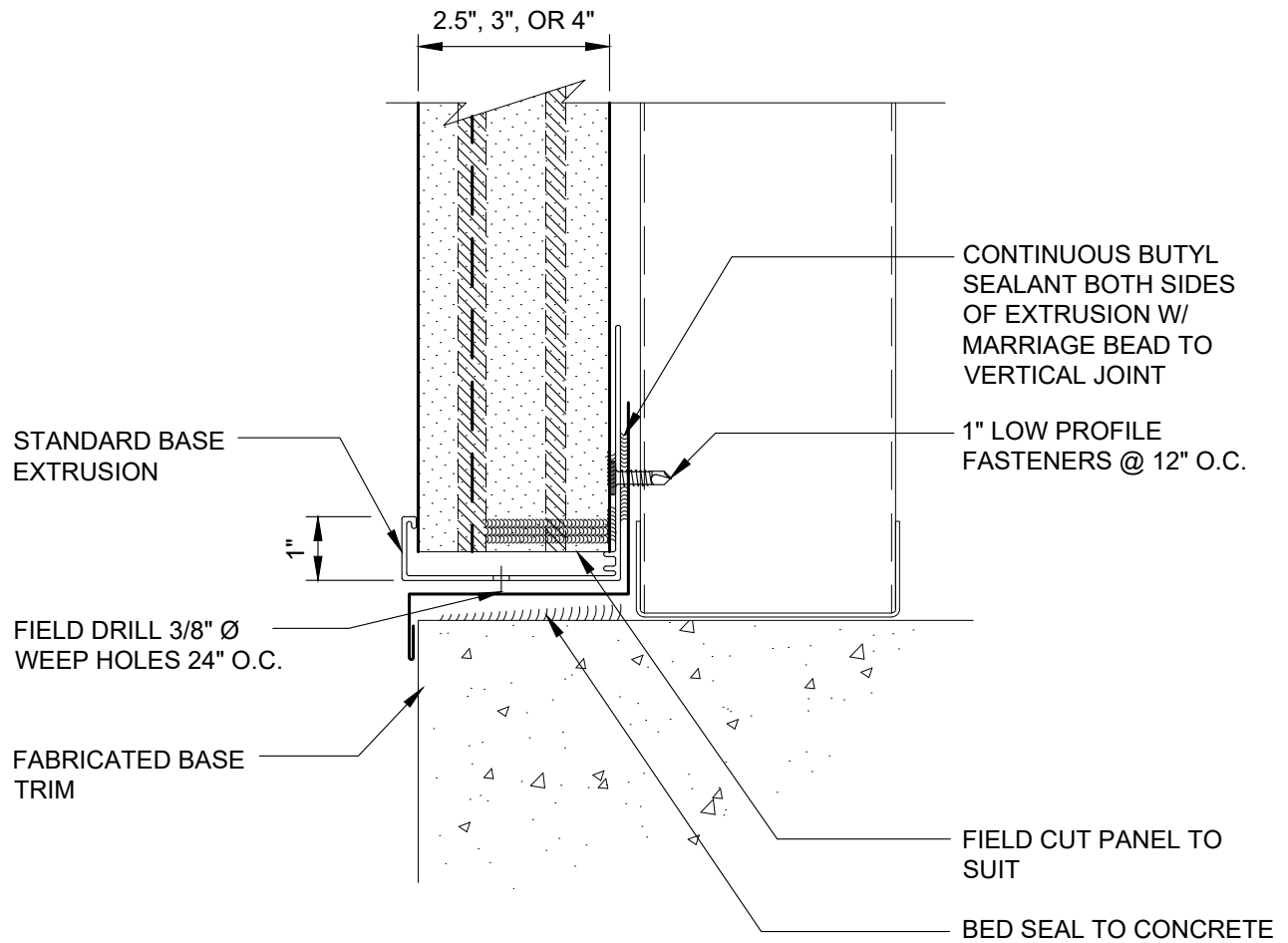
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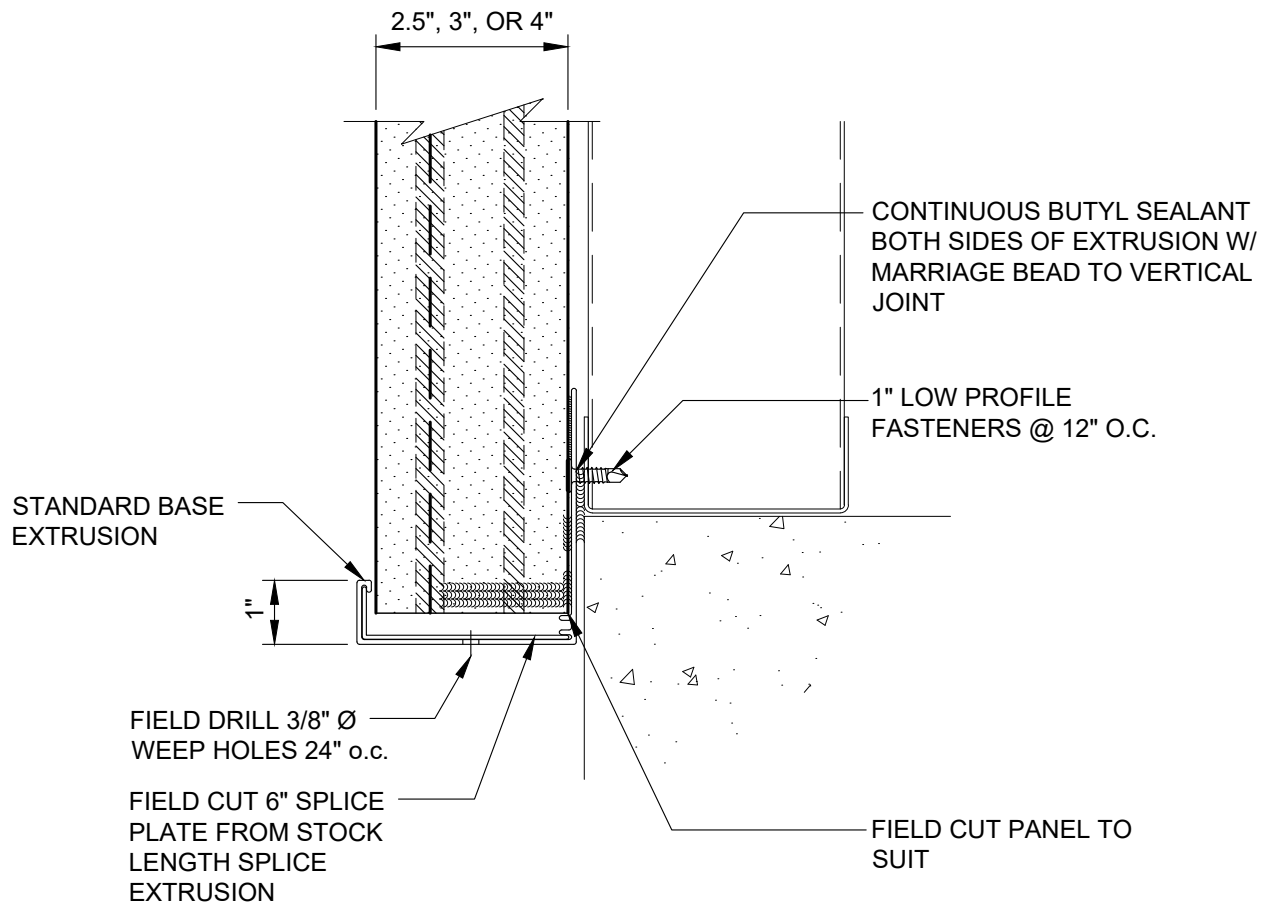
BASE DETAIL -
FLUSH EXTRUSION

DETAIL #: AR-BS-01-DW2RV
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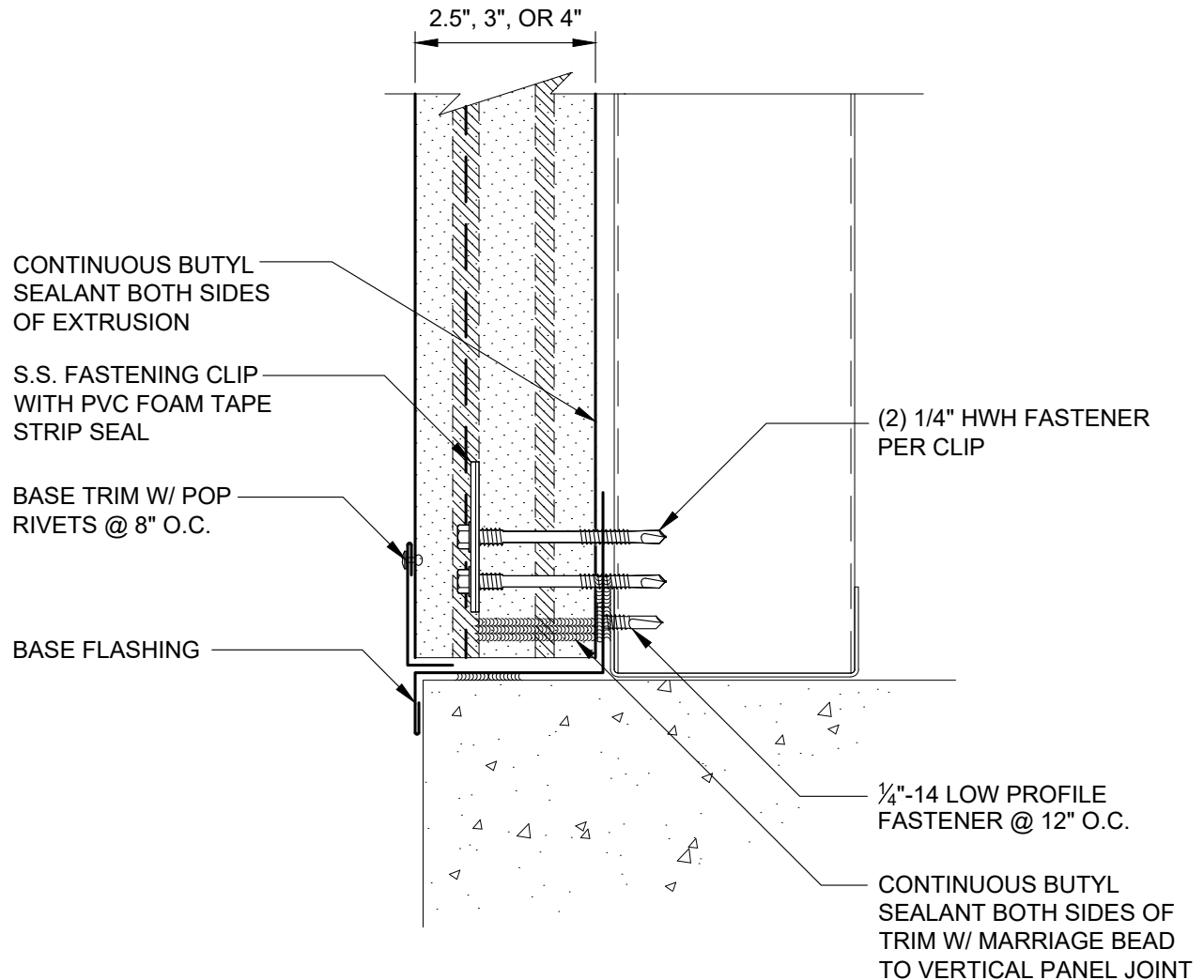
BASE DETAIL -
OVERHANG
EXTRUSION

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BASE DETAIL -
FLUSH TRIM

DETAIL #: AR-BS-03-DW2RV

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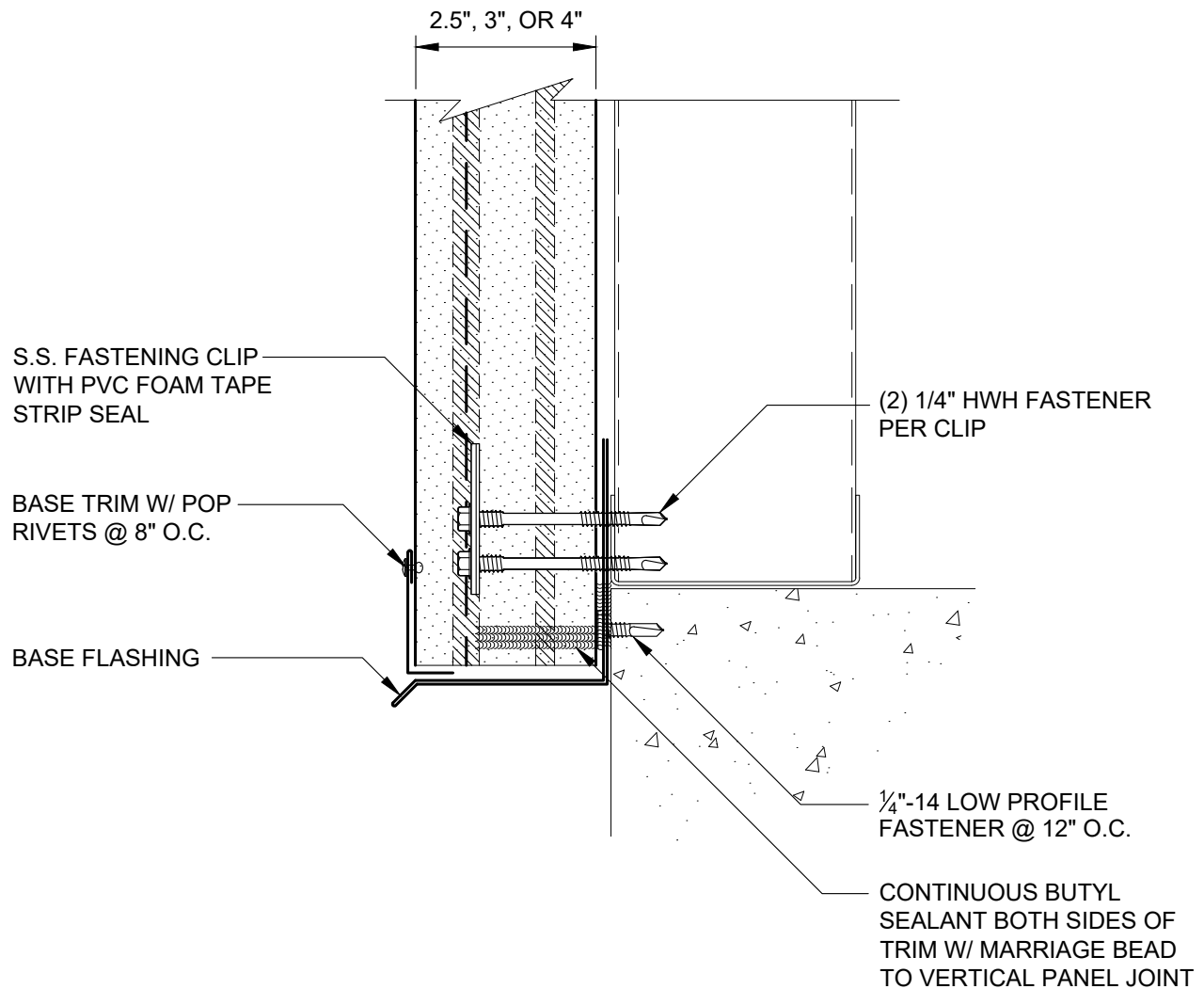
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BASE DETAIL -
OVERHANG TRIM

DETAIL #: AR-BS-04-DW2RV

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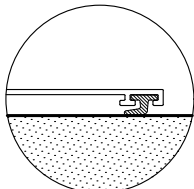
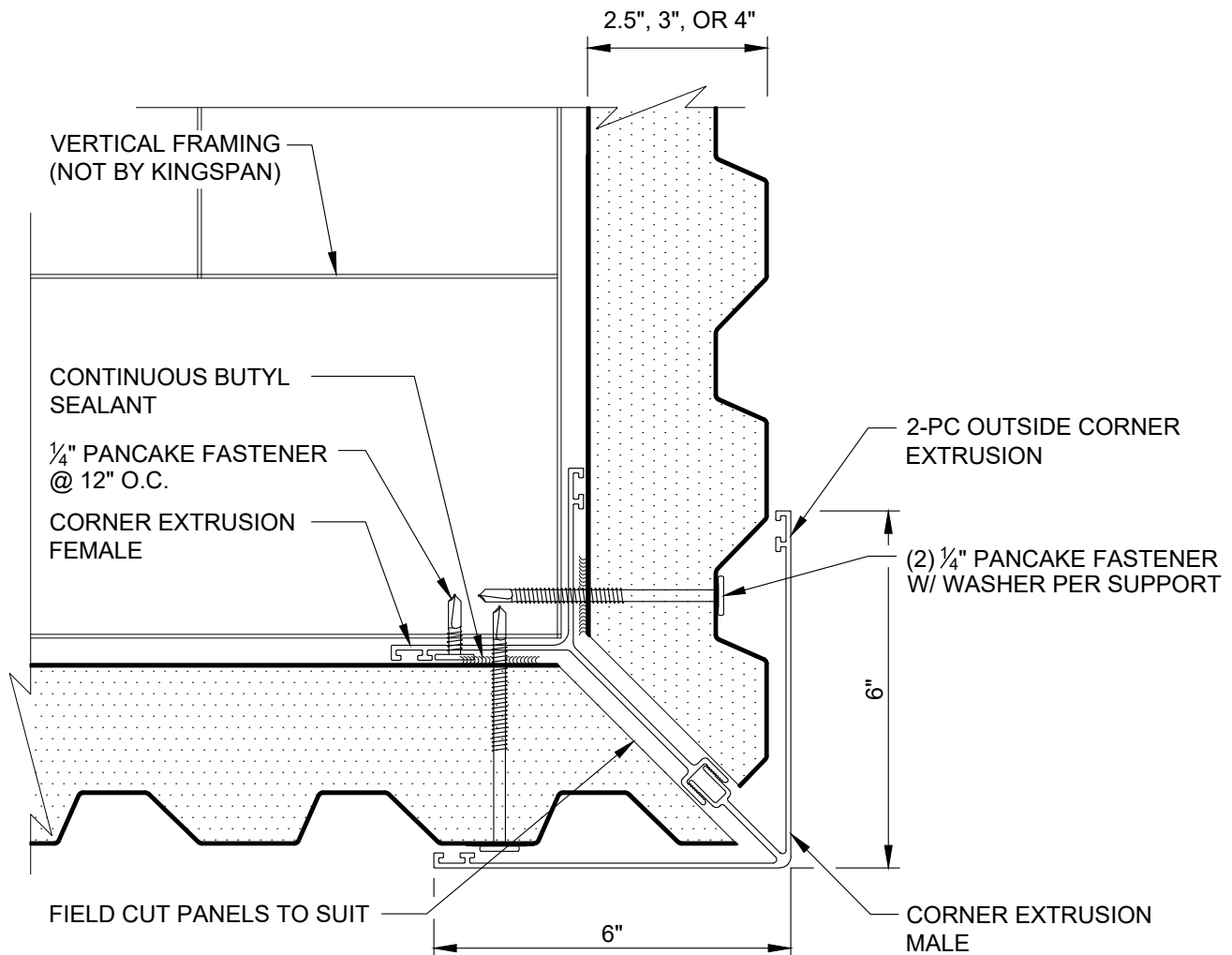
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OPTIONAL WIPER
GASKET
(FIELD INSTALLED)

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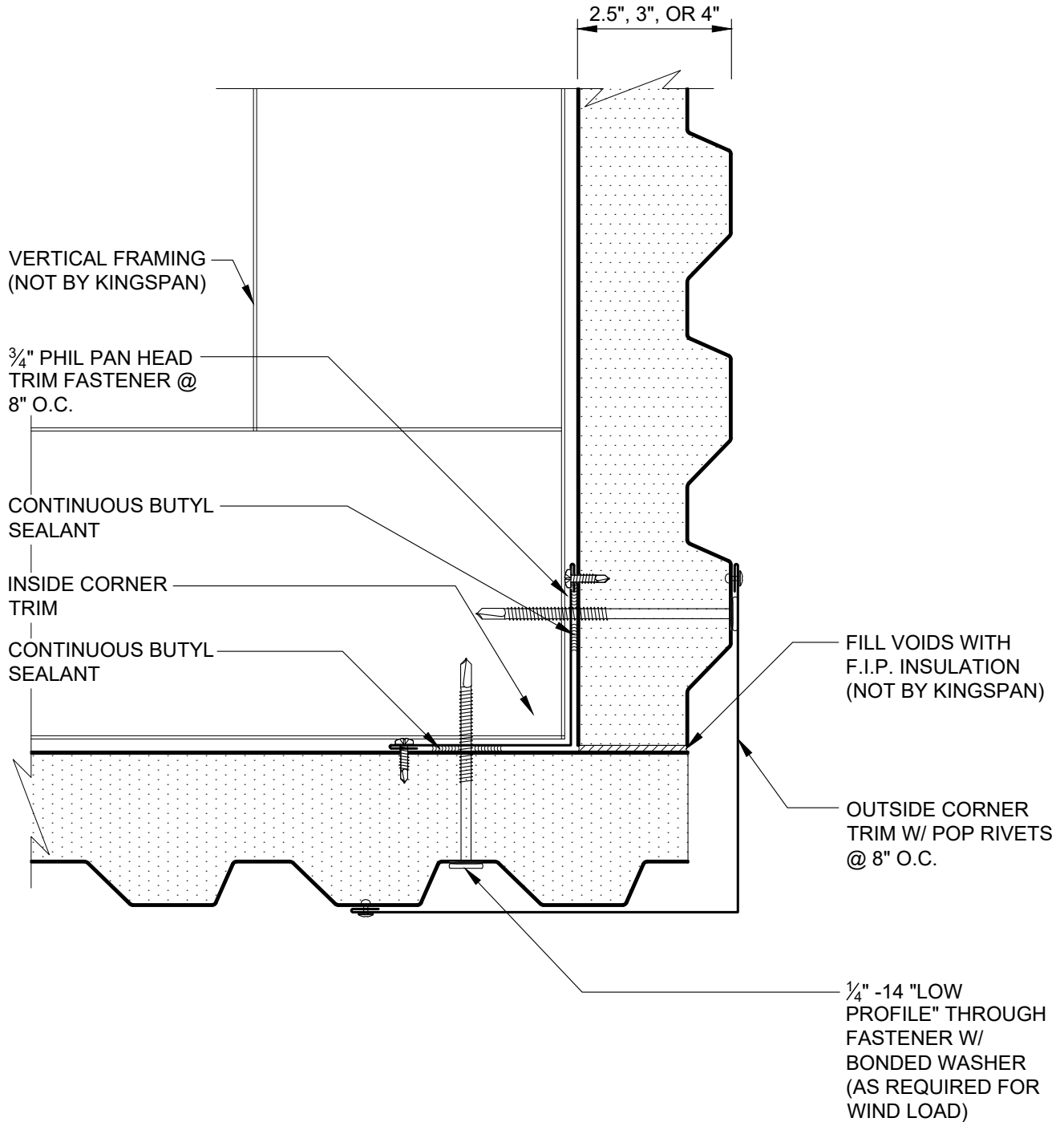
OUTSIDE CORNER
- EXTRUSION

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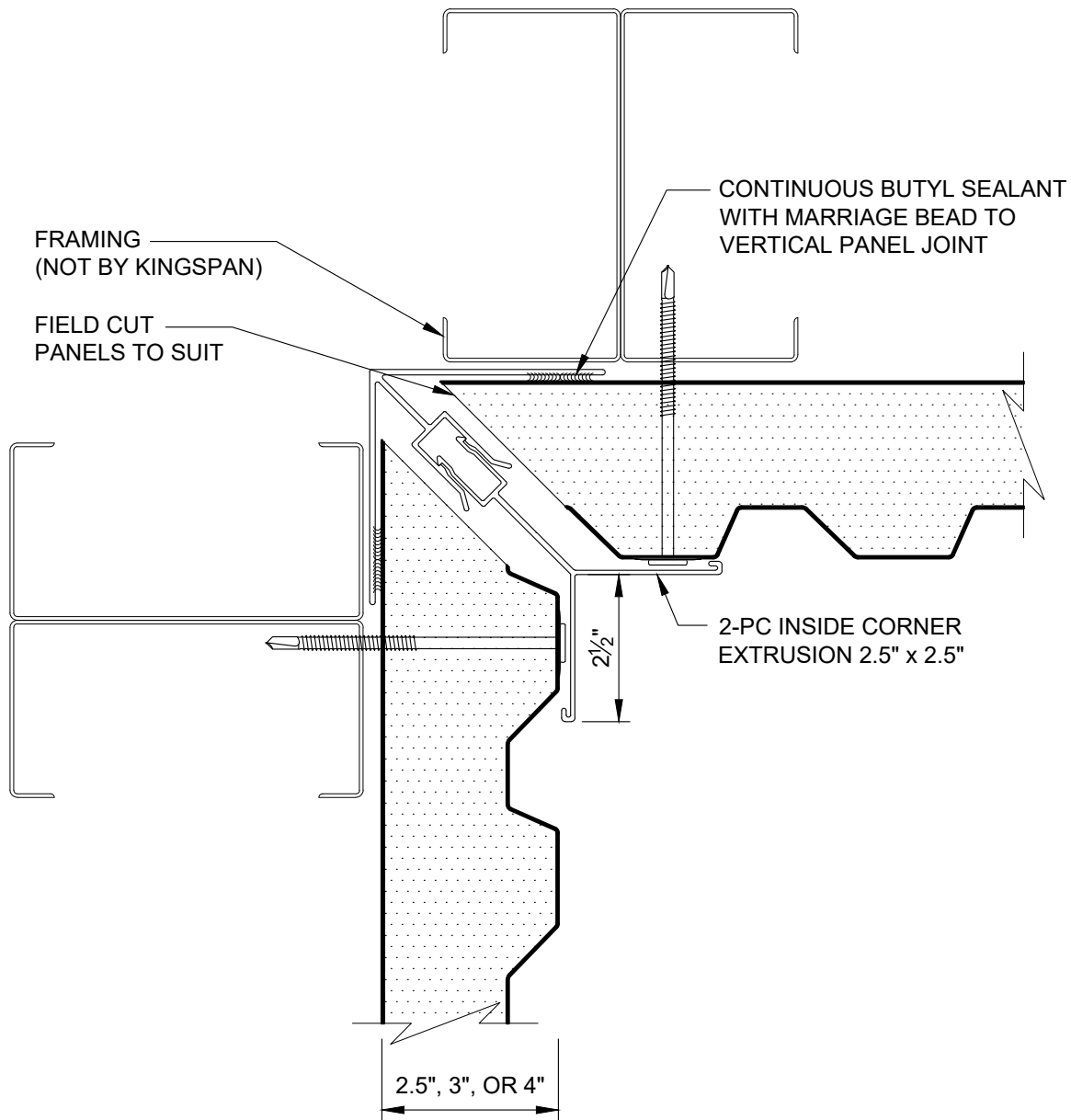
OUTSIDE CORNER
- TRIM

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*NOTE: 2-PC INSIDE CORNER EXTRUSION AVAILABLE FOR 3\"

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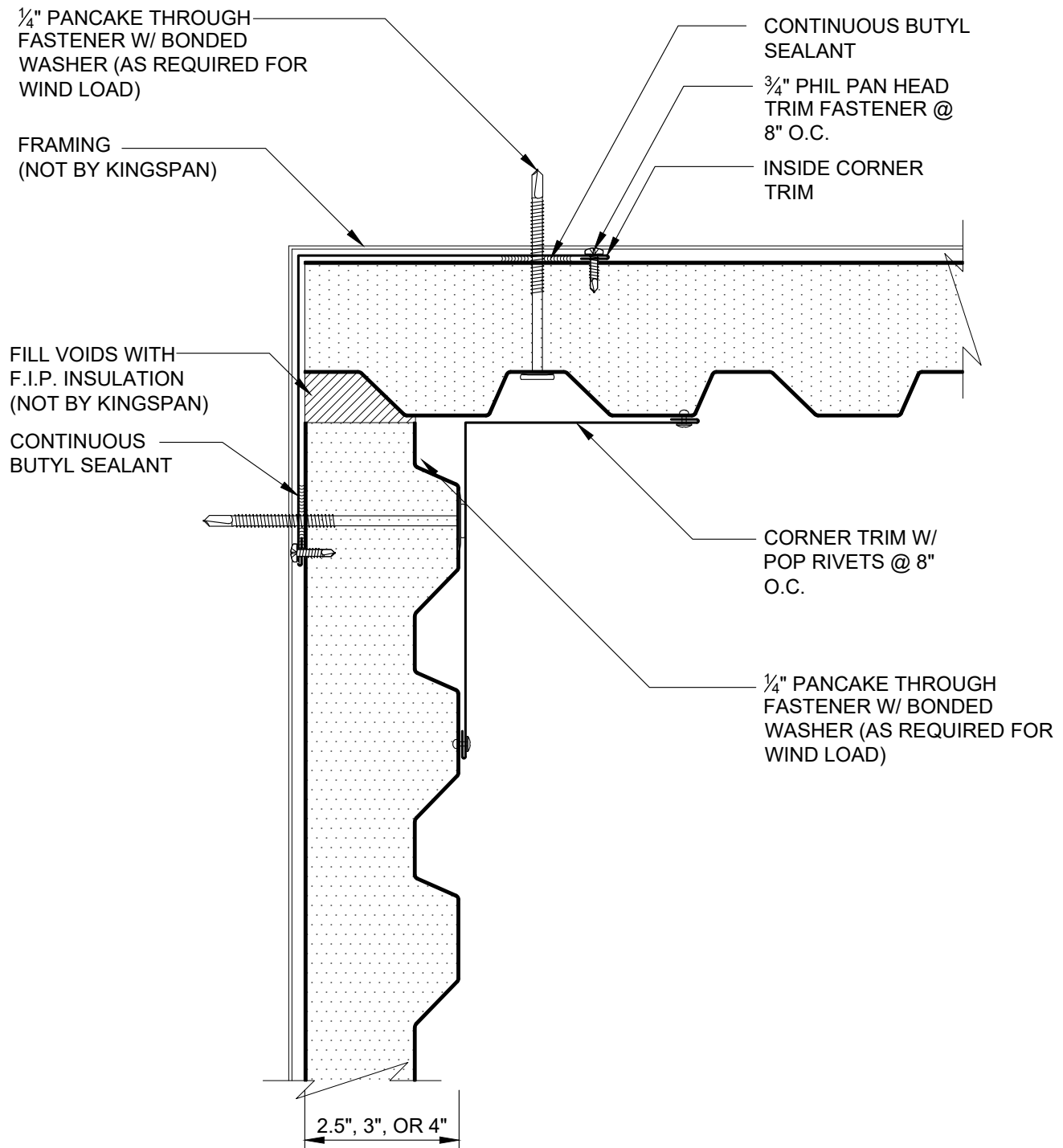
INSIDE CORNER
- EXTRUSION

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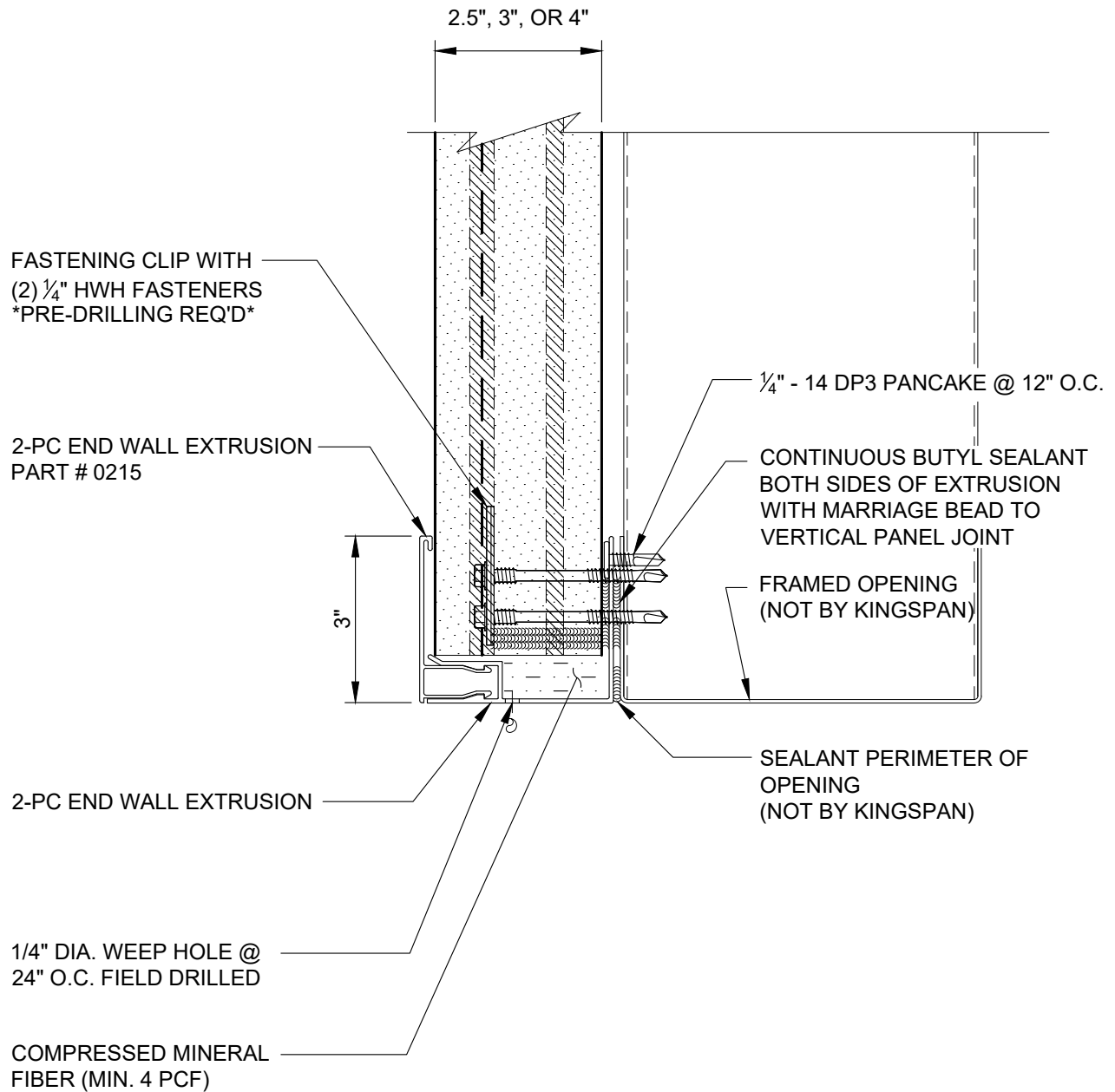
INSIDE CORNER
- TRIM

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NOTE: 1) SEE DETAIL AR-TL-11-DW2RV, AR-TL-12-DW2RV, AR-TL-13-DW2RV,
AR-TL-14-DW2RV
AND AR-TL-15-DW2RV FOR TYPICAL TRIM LAP INSTRUCTIONS

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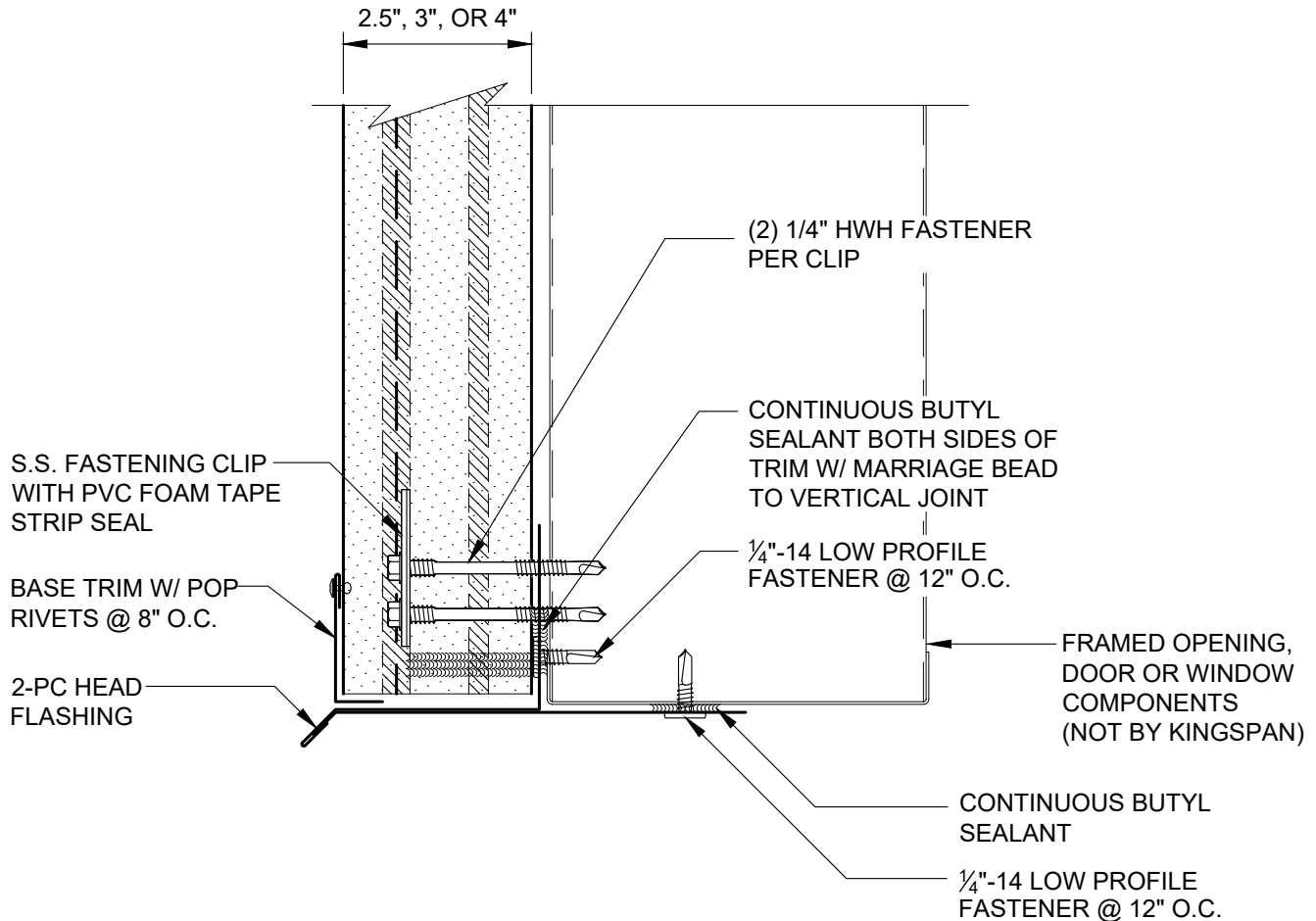
FRAMED OPENING
HEAD - EXTRUSION

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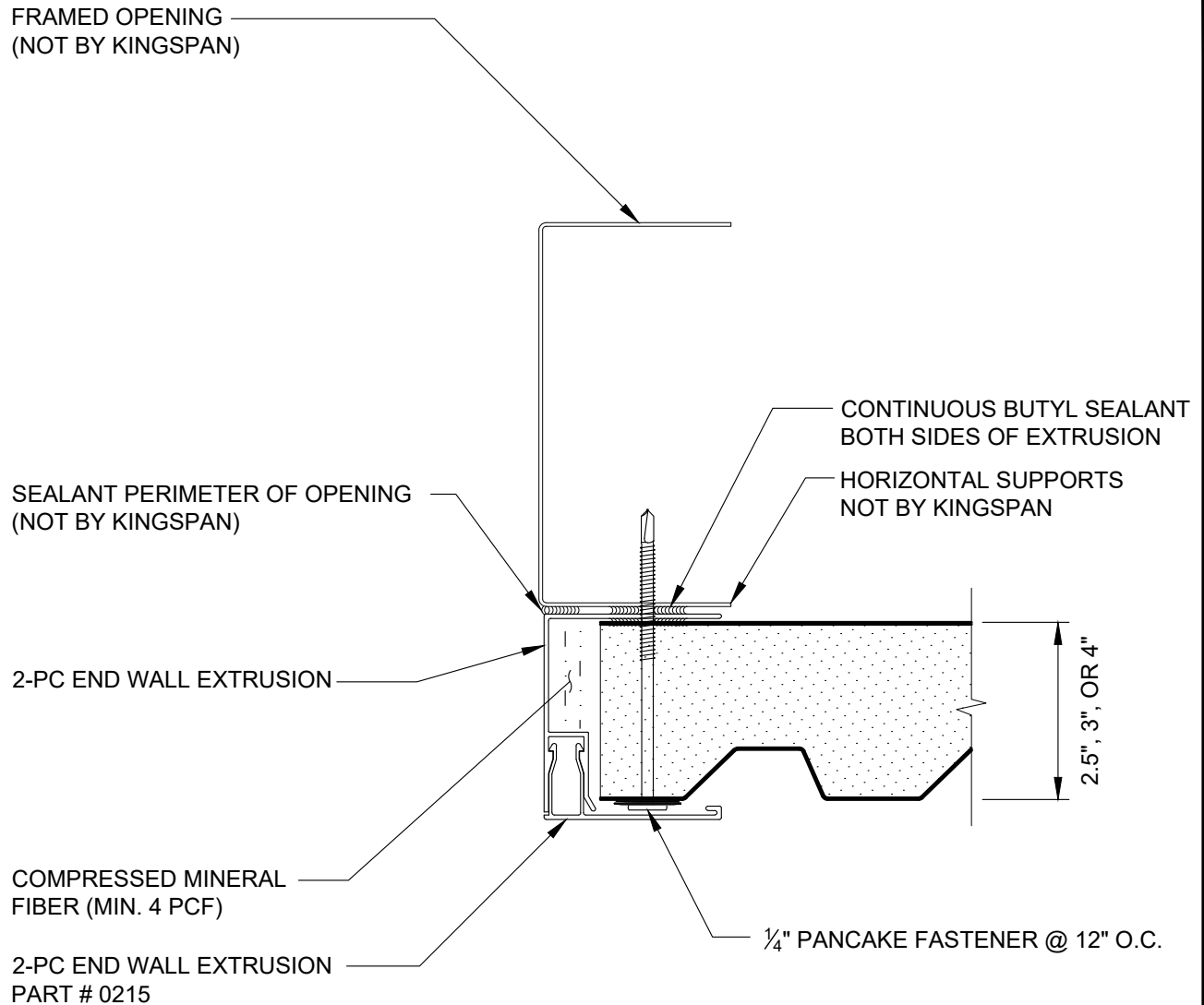
FRAMED OPENING
HEAD - TRIM

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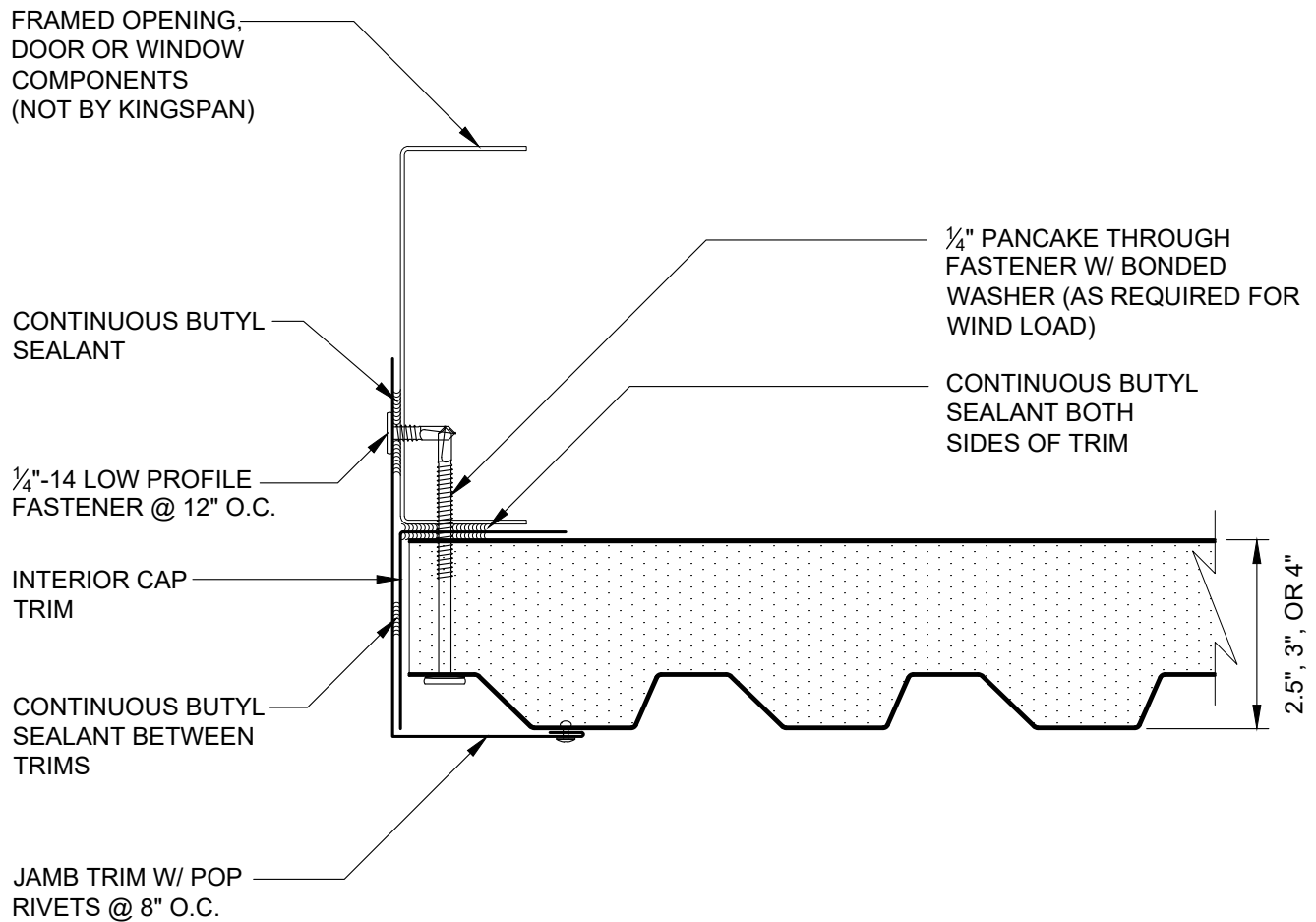
FRAMED OPENING
JAMB - EXTRUSION

DETAIL #: AR-FO-03-DW2RV
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FRAMED OPENING
JAMB - TRIM

DETAIL #: AR-FO-04-DW2RV

RELEASE: 2024

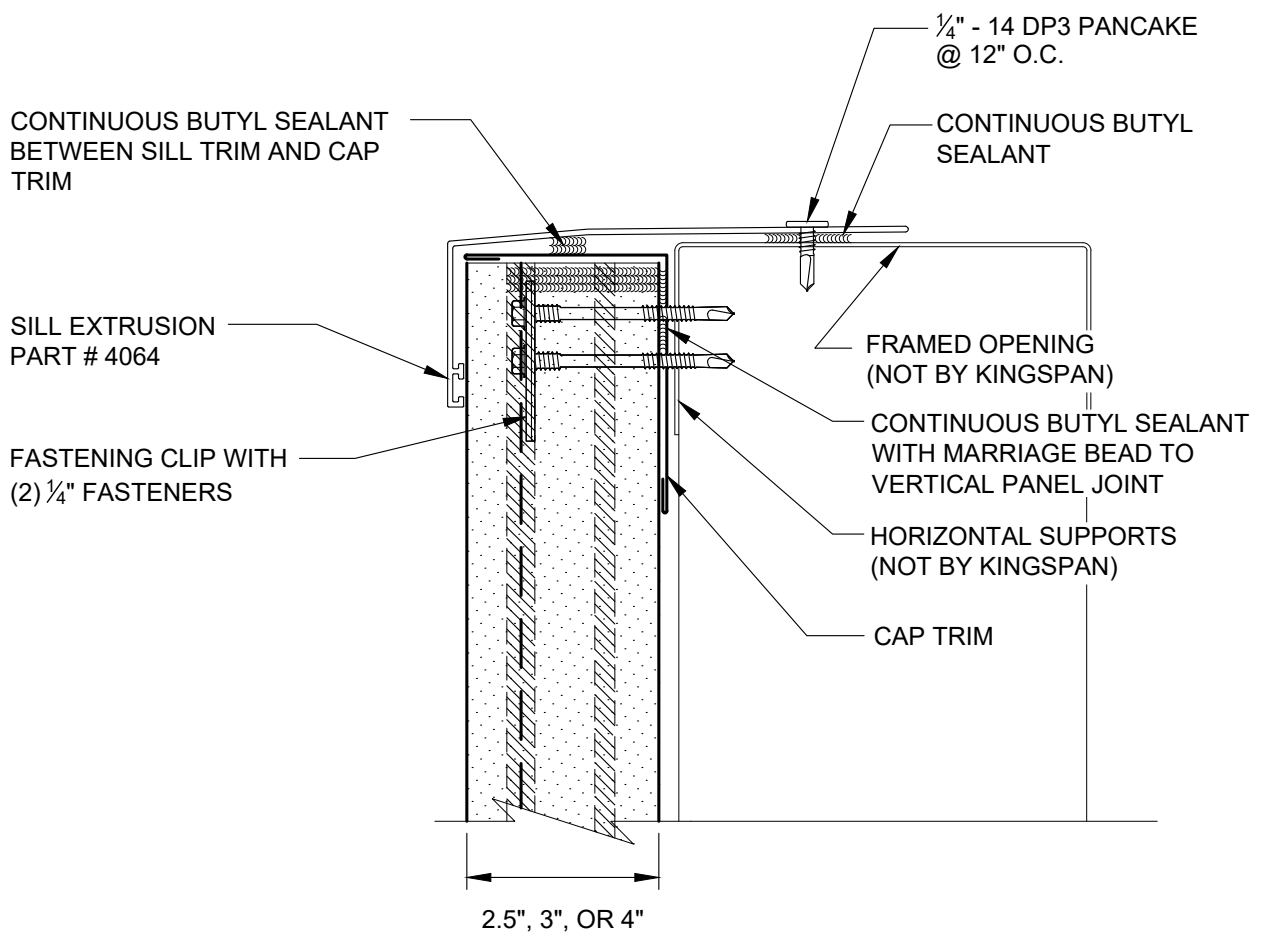
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FRAMED OPENING
SILL - EXTRUSION

DETAIL #: AR-FO-05-DW2RV

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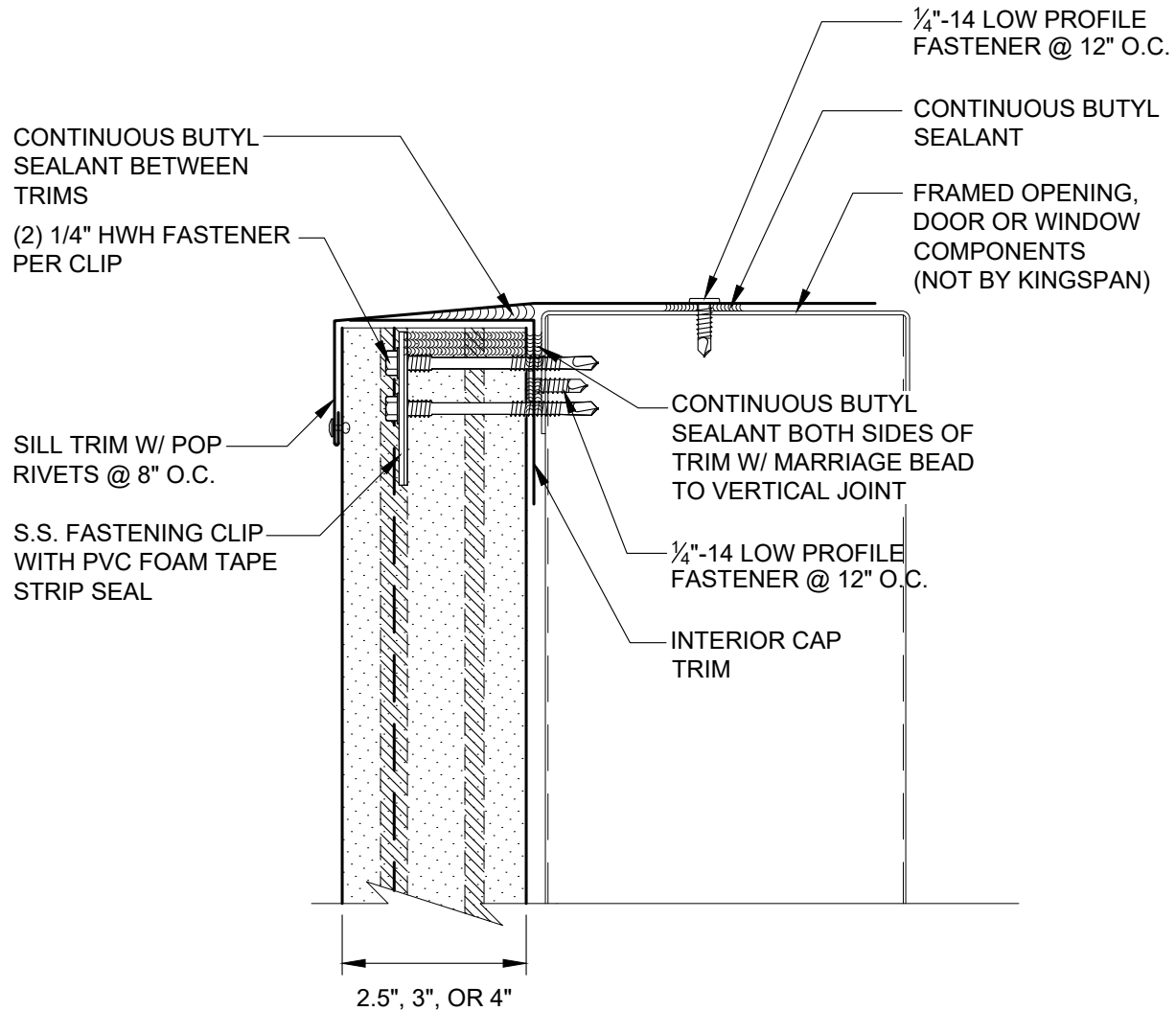
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NOTE: NOTE: 1) 1) SEE DETAIL AR-TL-11-DW2RV, AR-TL-12-DW2RV, AR-TL-13-DW2RV, AR-TL-14-DW2RV AND AR-TL-15-DW2RV FOR TYPICAL TRIM LAP INSTRUCTIONS

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FRAMED OPENING
SILL - TRIM

DETAIL #: AR-FO-06-DW2RV

RELEASE: 2024

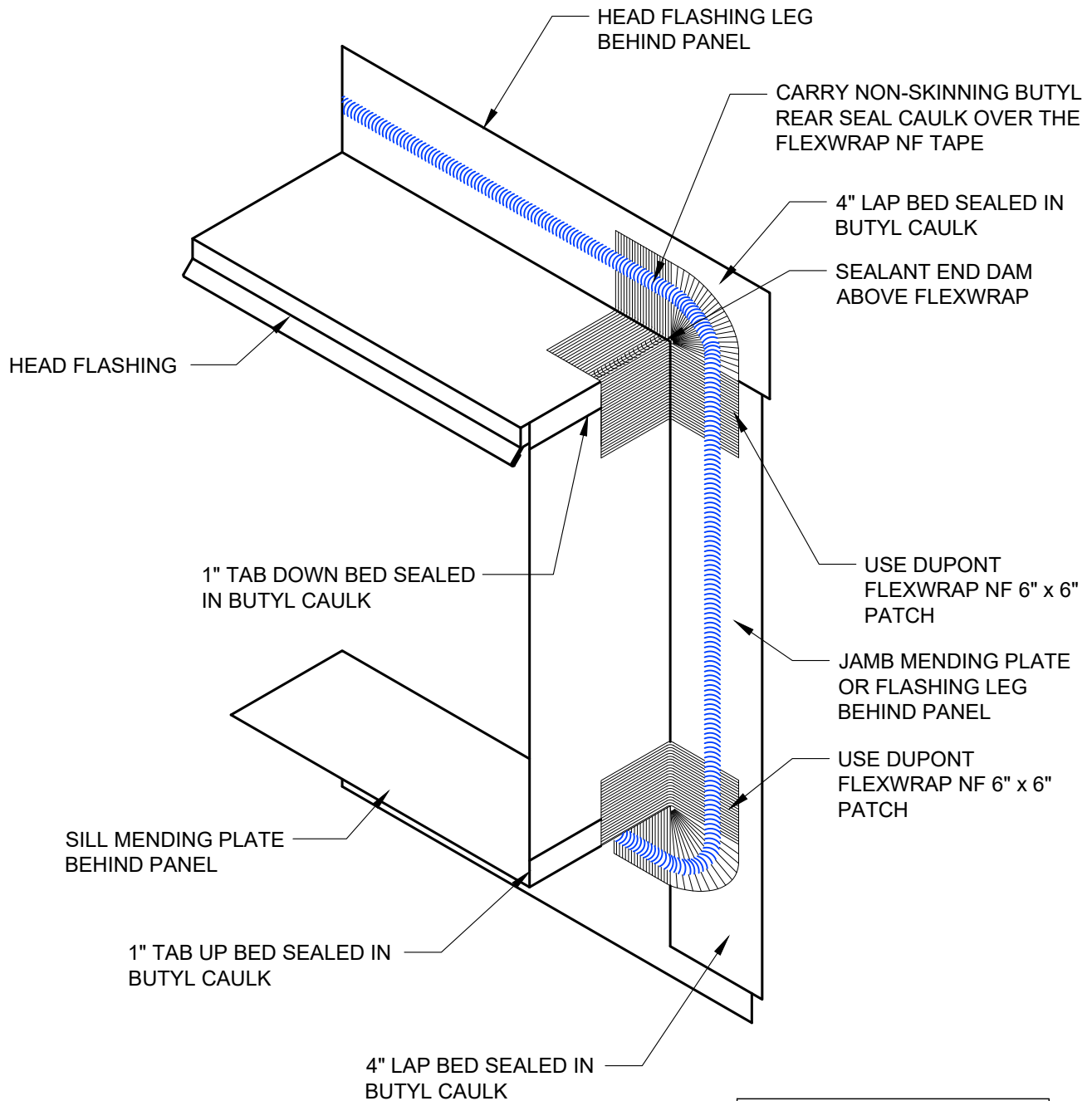
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DW-2000R - VERTICAL INSTALLATION



PERFORM THIS WORK PRIOR
TO INSTALLING PANELS

REVISION

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TRIM AT FRAMED
OPENING

DETAIL #: AR-FO-07-DW2RV

RELEASE: 2024

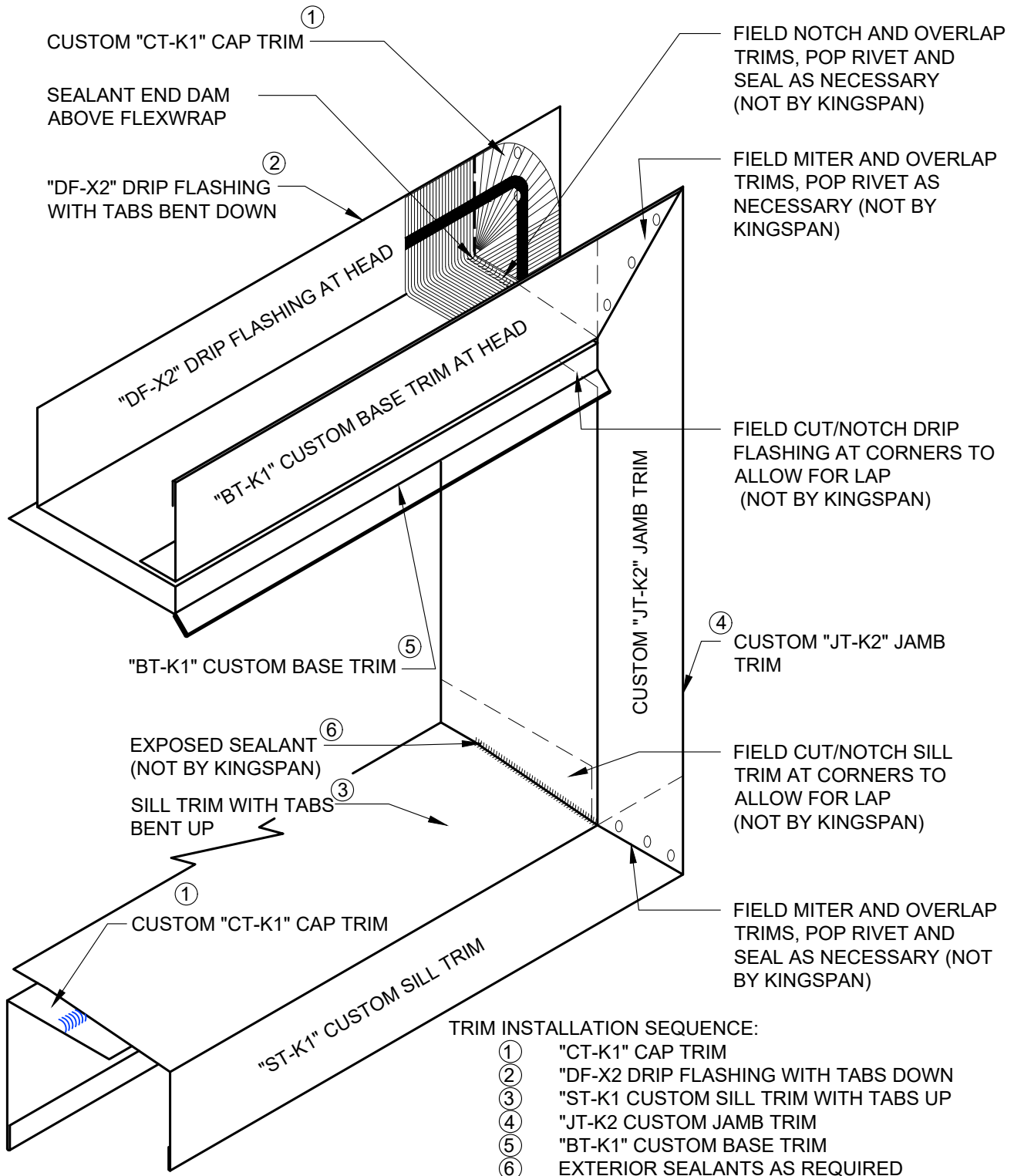
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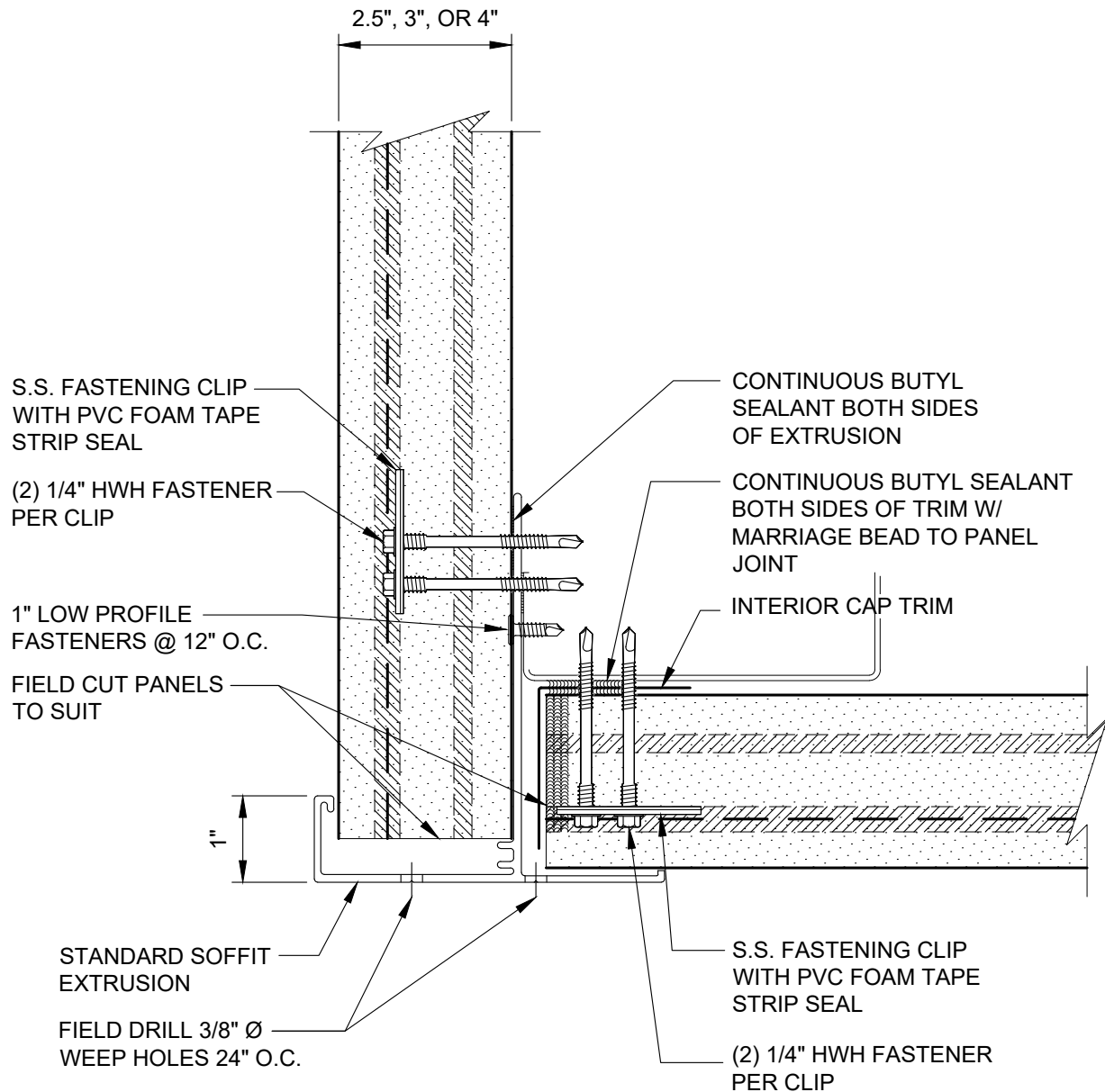
TRIM AT FRAMED
OPENING

DETAIL #: AR-FO-08-DW2RV
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WALL TO SOFFIT -
EXTRUSION

DETAIL #: AR-SF-01-DW2RV

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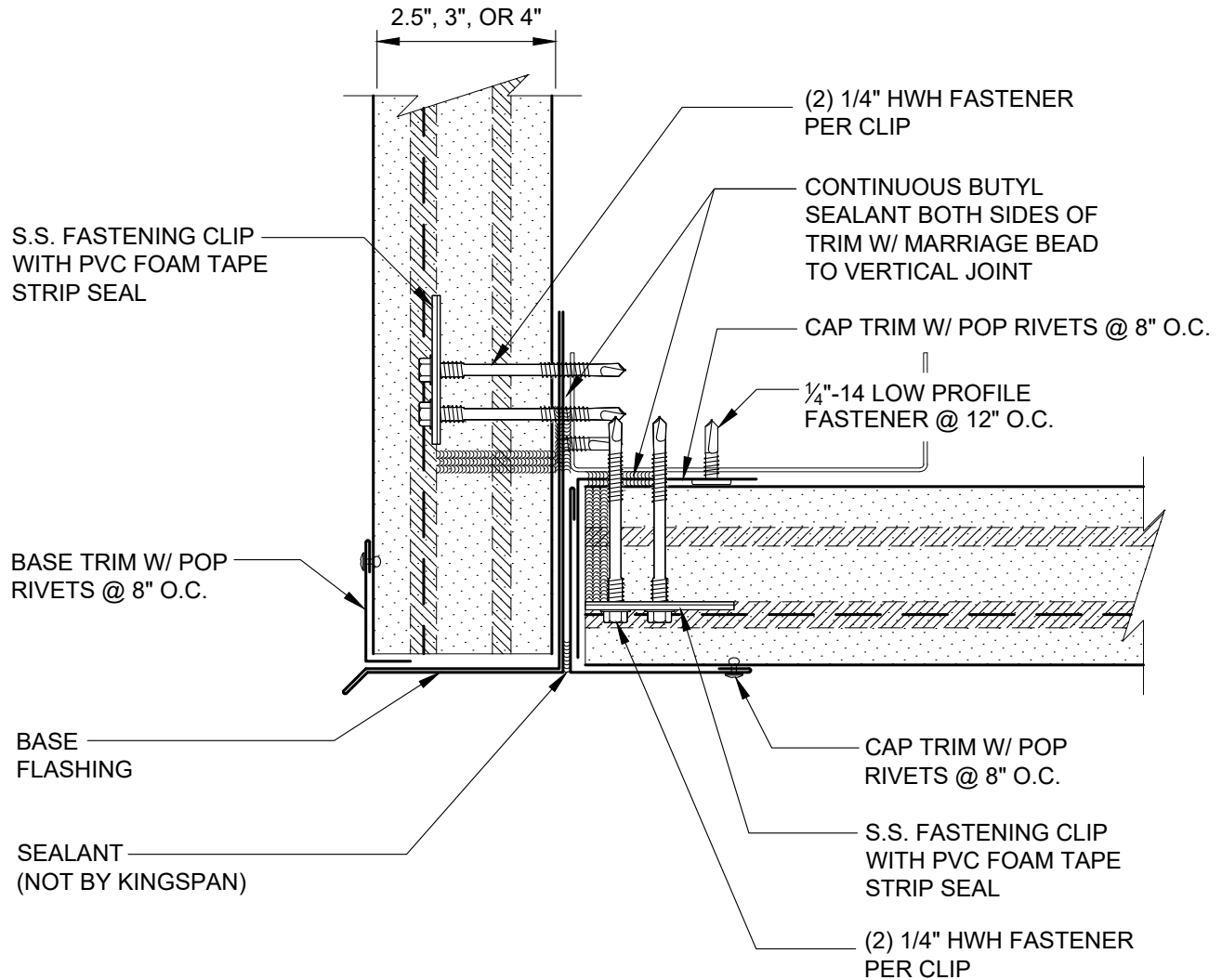
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DW-2000R - VERTICAL INSTALLATION



REVISION	
REVISION #	DATE
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WALL TO SOFFIT -
TRIM

DETAIL #: AR-SF-02-DW2RV

RELEASE: 2024

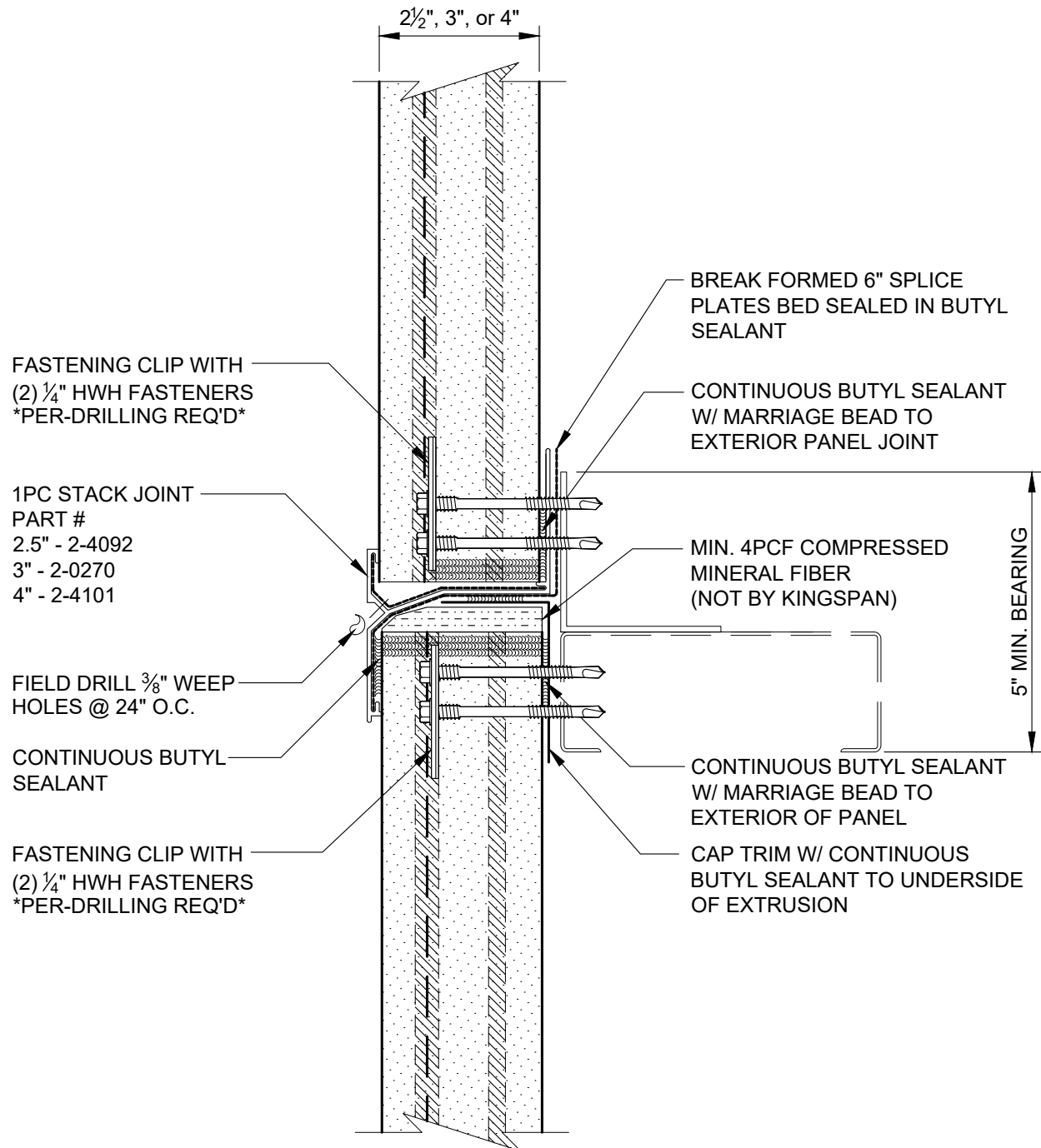
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REVISION #	DATE
0	3/5/24

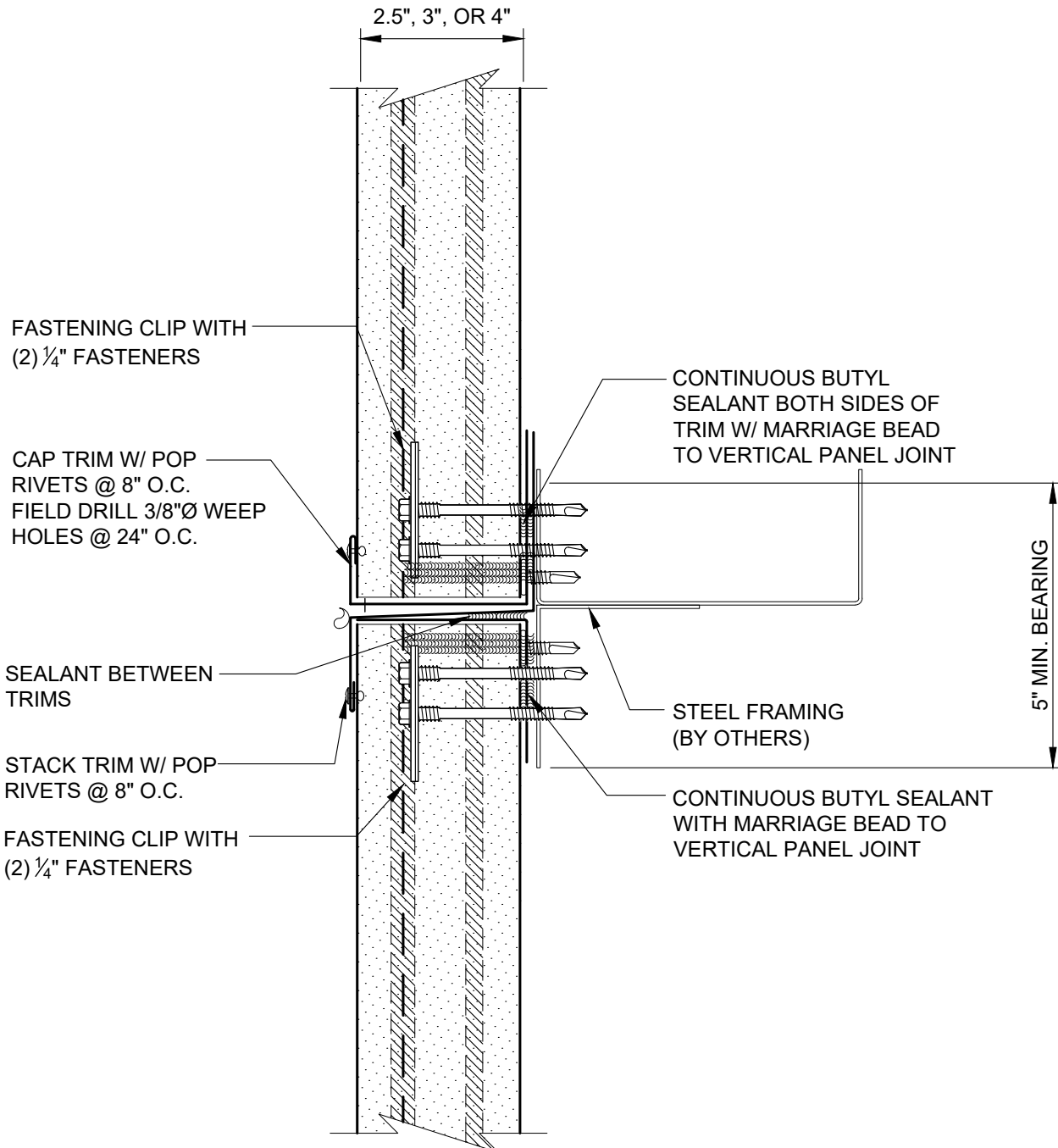
STACK JOINT
EXTRUSION

DETAIL #: AR-SJ-01-DW2RV
RELEASE: 2024
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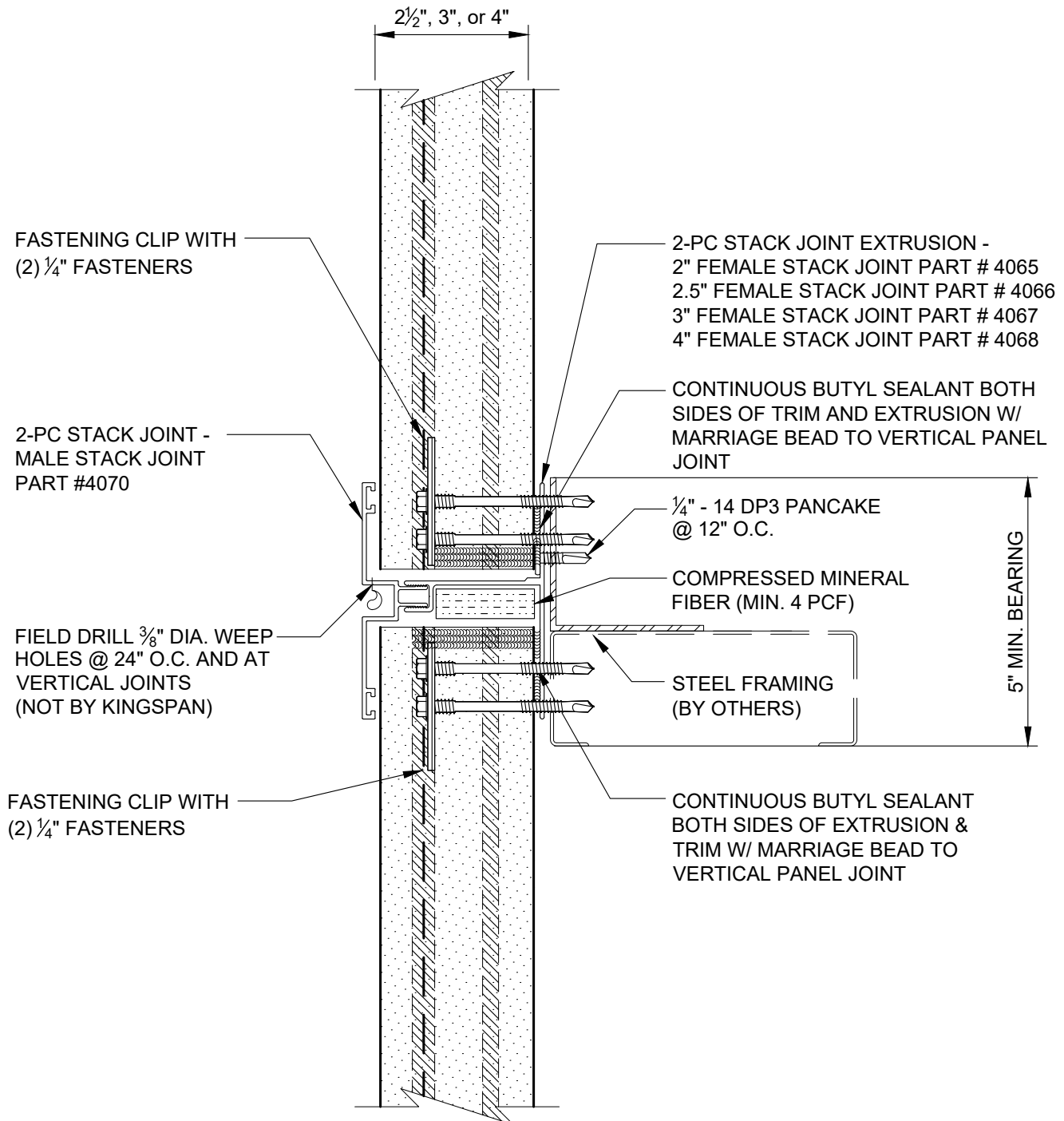
STACK JOINT
TRIM

DETAIL #: AR-SJ-02-DW2RV
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STACK JOINT 2-PIECE EXTRUSION

DETAIL #: AR-SJ-03-DW2RV

RELEASE: 2024

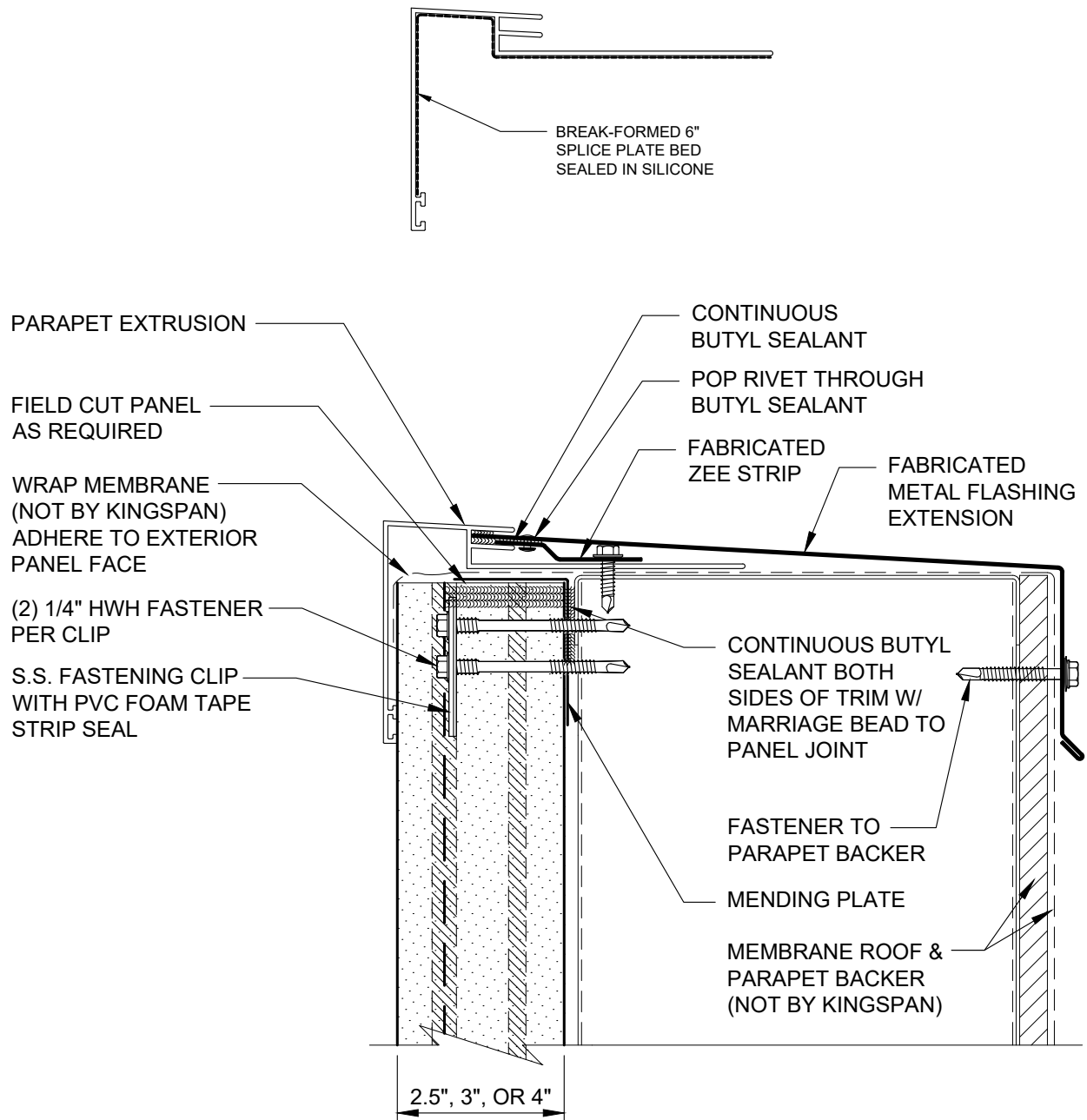
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PARAPET W/
EXTRUSION

DETAIL #: AR-PR-01-DW2RV

RELEASE: 2024

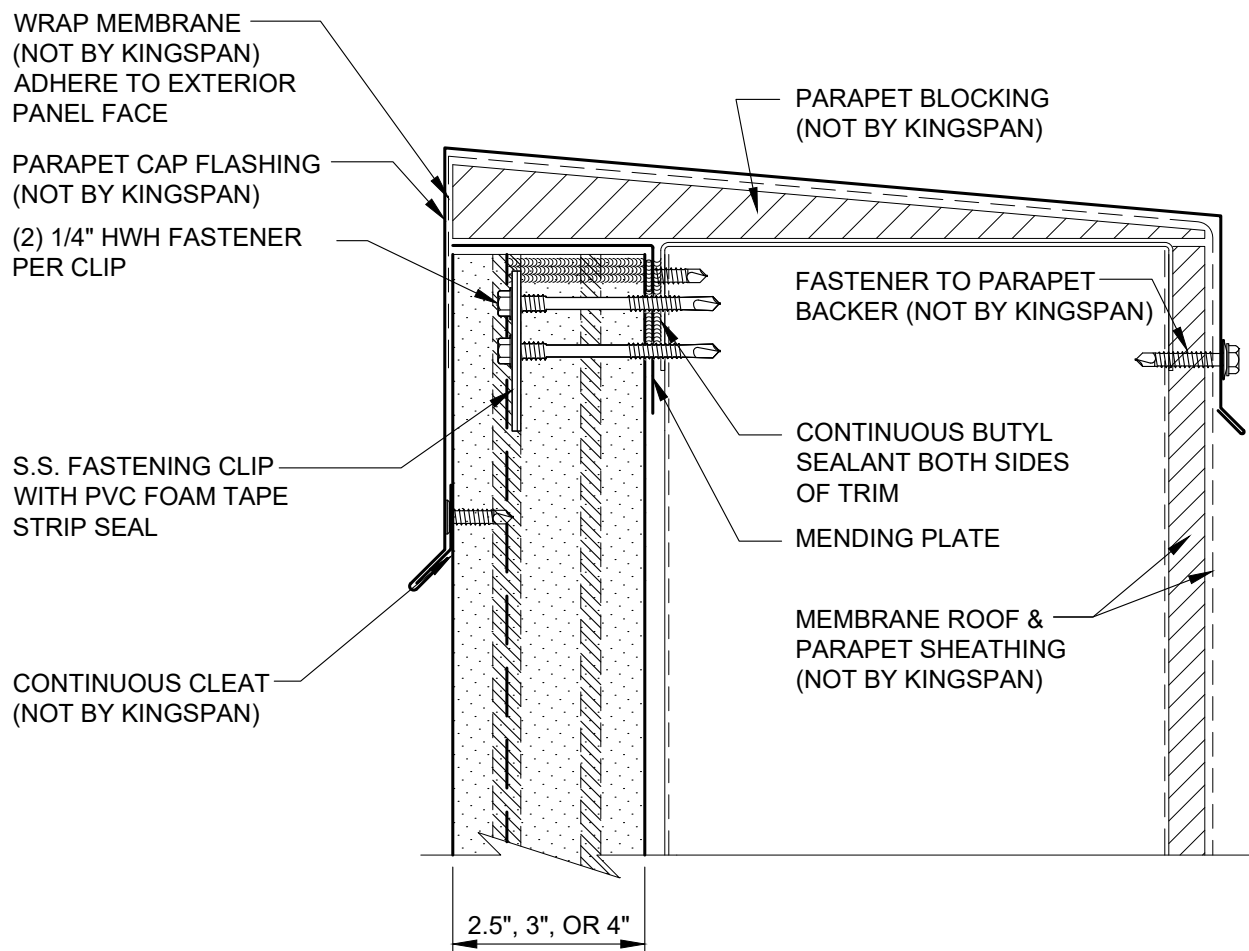
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PARAPET W/
TRIM

DETAIL #: AR-PR-02-DW2RV

RELEASE: 2024

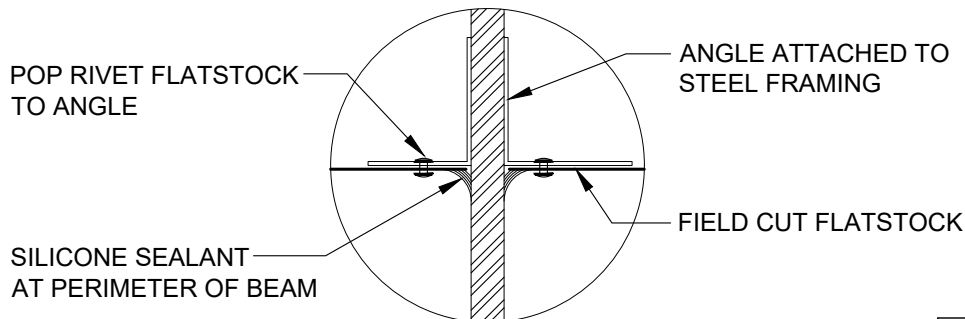
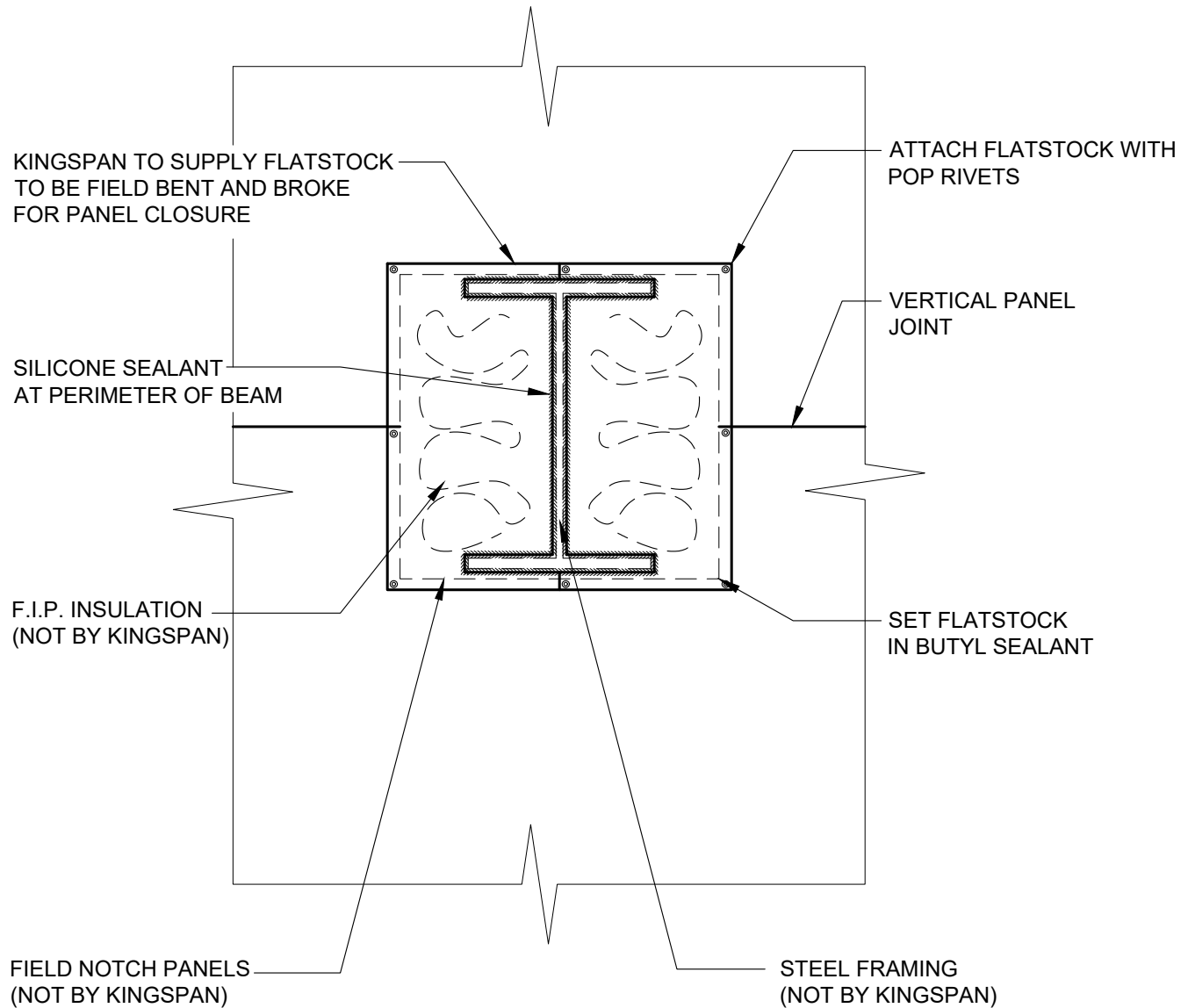
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REVISION #	DATE
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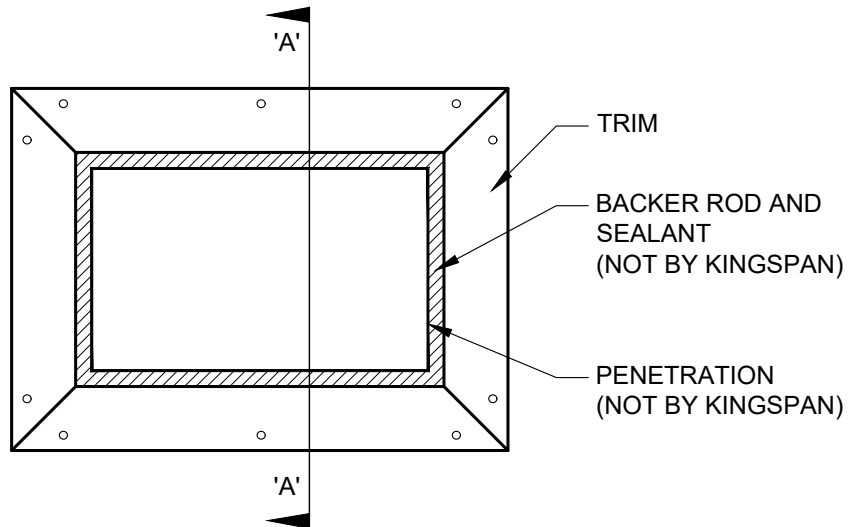
BEAM
PENETRATION

DETAIL #: AR-PE-01-DW2RV
RELEASE: 2024
REGION: NORTH AMERICA
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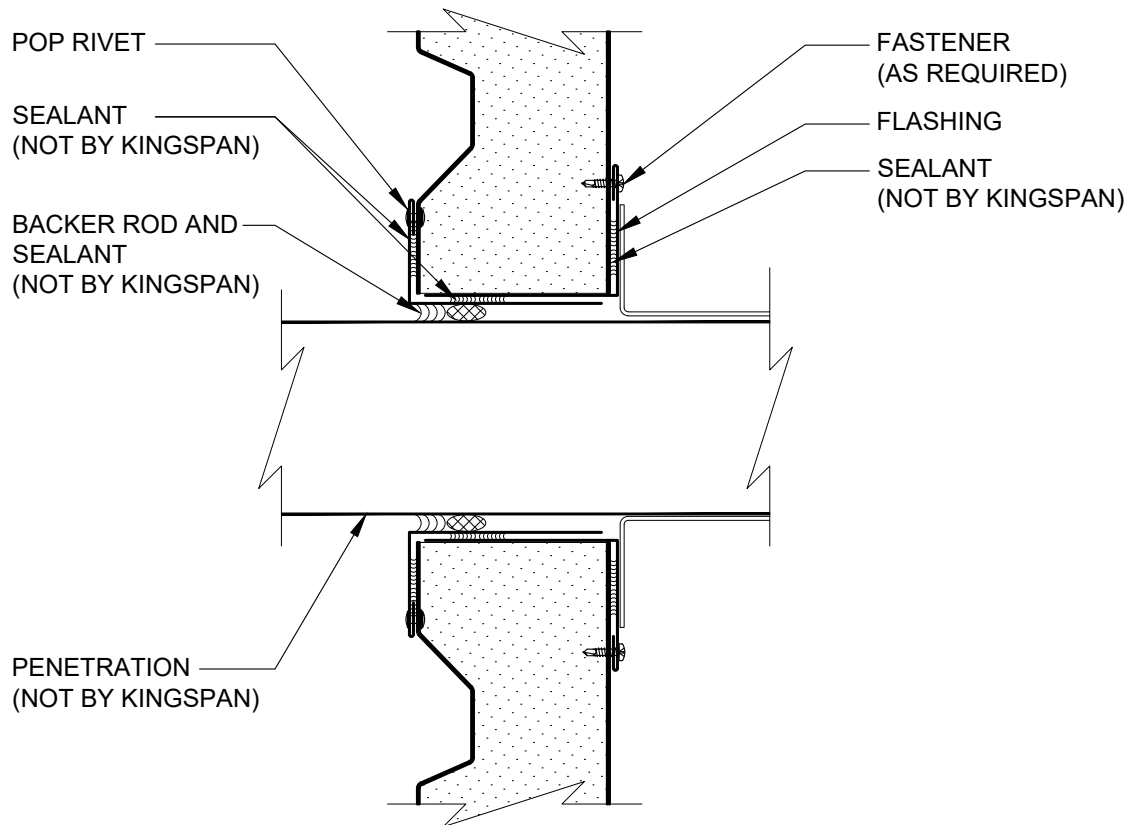


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ELEVATION



SECTION 'A-A'

NOTES: 1. DO NOT ALIGN PENETRATIONS AT PANEL JOINT LOCATIONS.

2. FLASHING AT PENETRATIONS TO BE FIELD FABRICATED FROM FLATSTOCK SHEETS AS NECESSARY

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**WALL
PENETRATION**

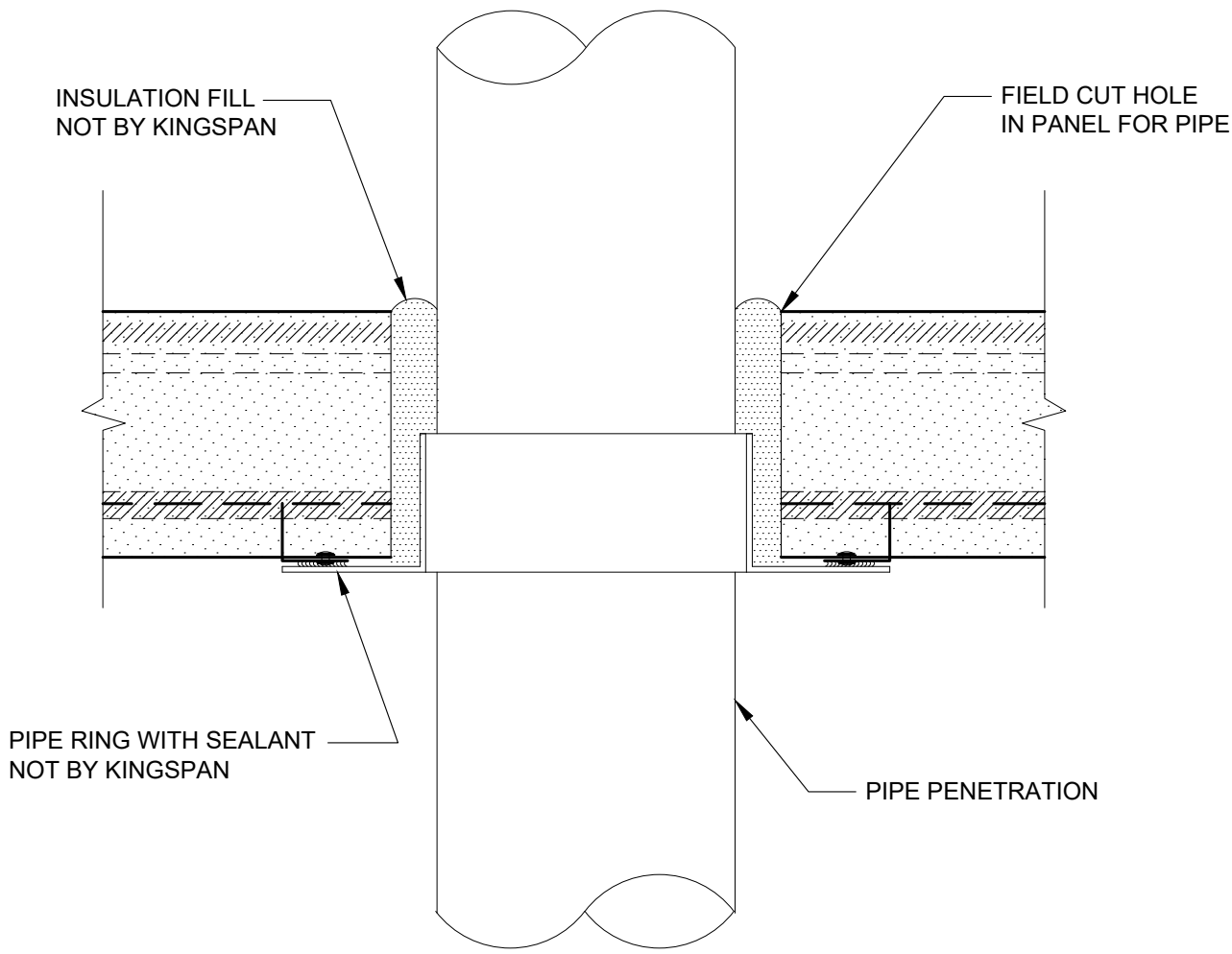
DETAIL #: AR-PE-02-DW2RV
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Pipe Penetration Detail
VERTICAL Application



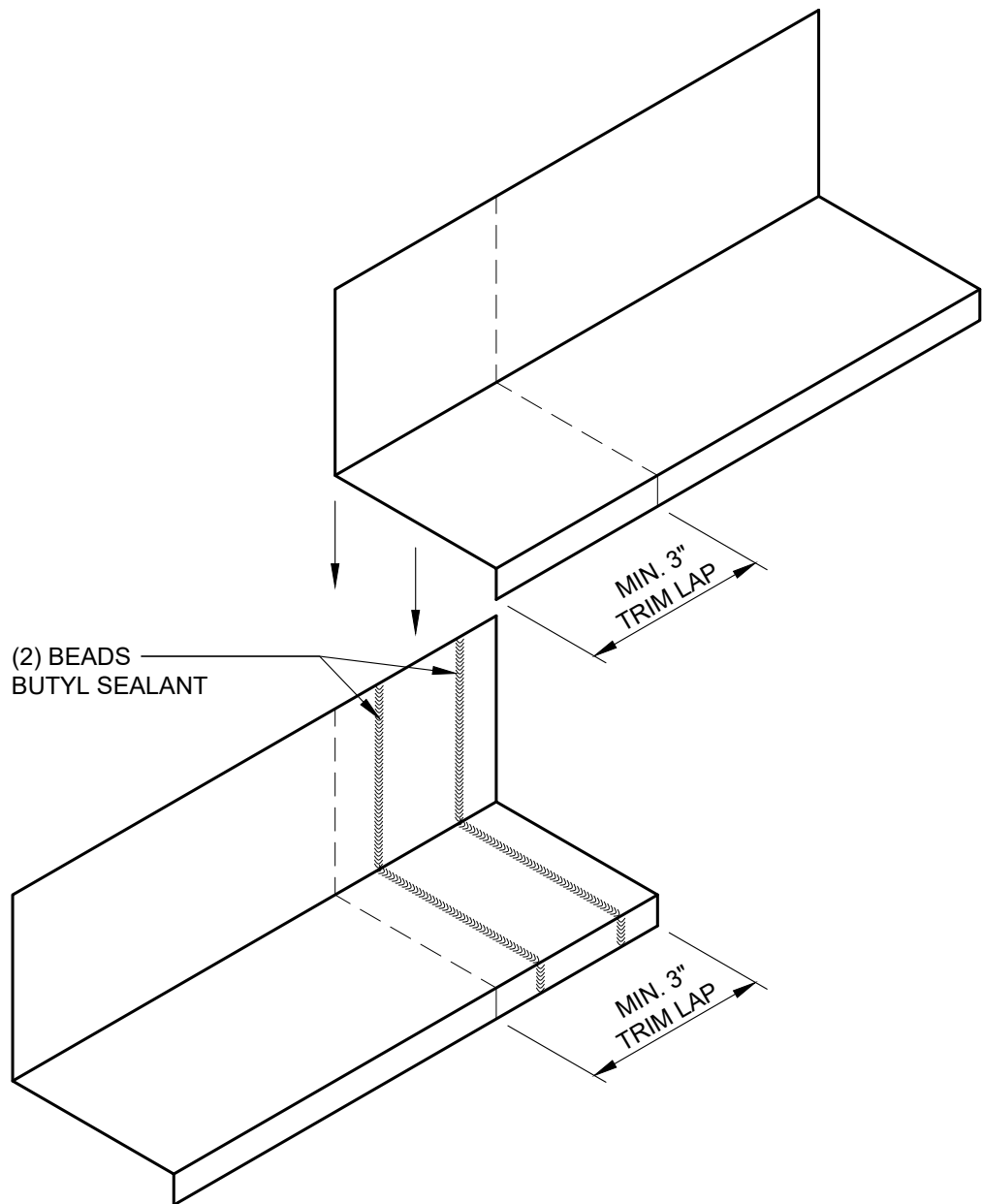
REVISION	
REVISION #	DATE
0	3/5/24

PIPE
PENETRATION

DETAIL #: AR-PE-03-DW2RV
RELEASE: 2024
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REVISION #	DATE
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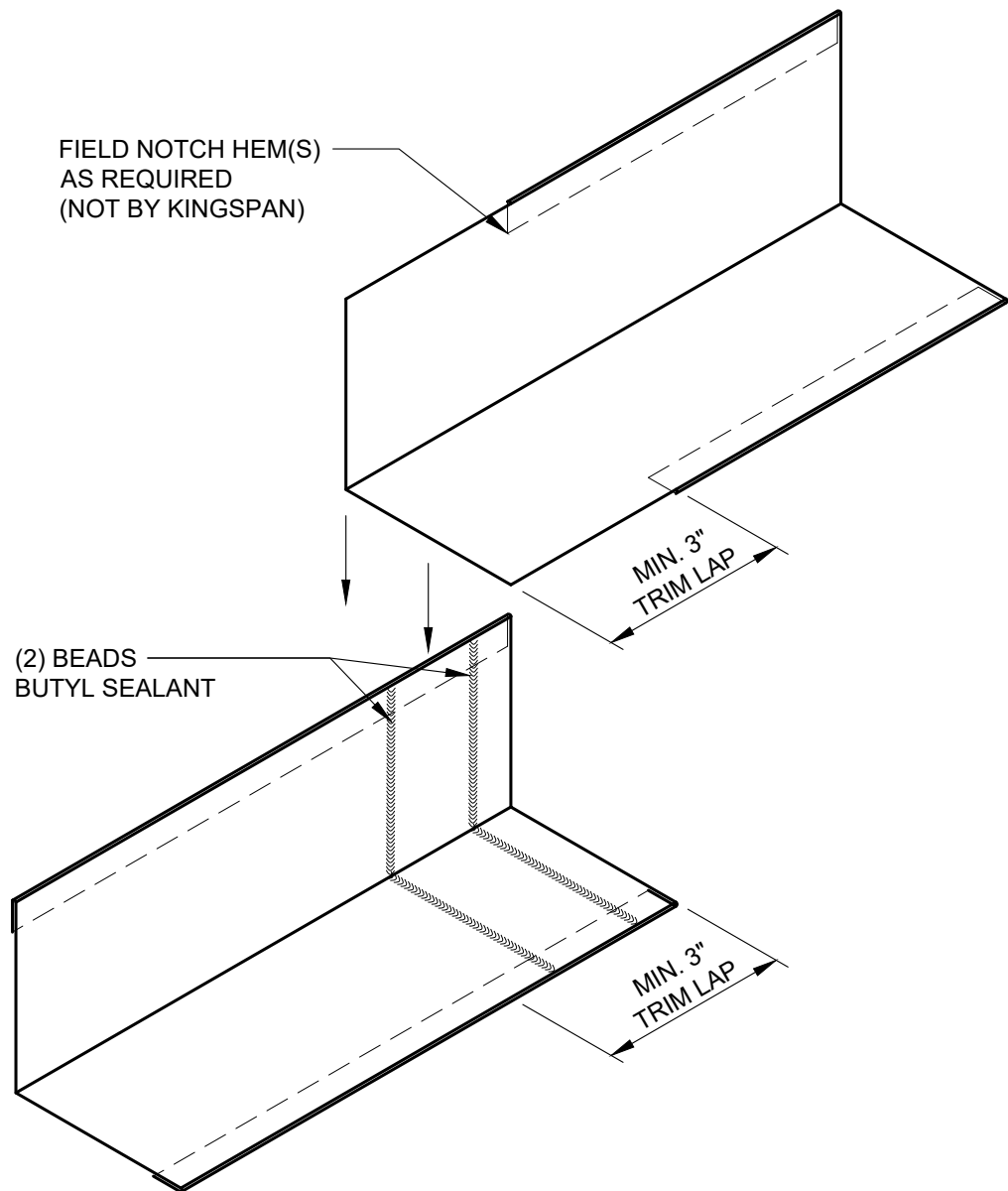
TRIM END LAP

DETAIL #: AR-TL-01-DW2RV
RELEASE: 2024
REGION: NORTH AMERICA
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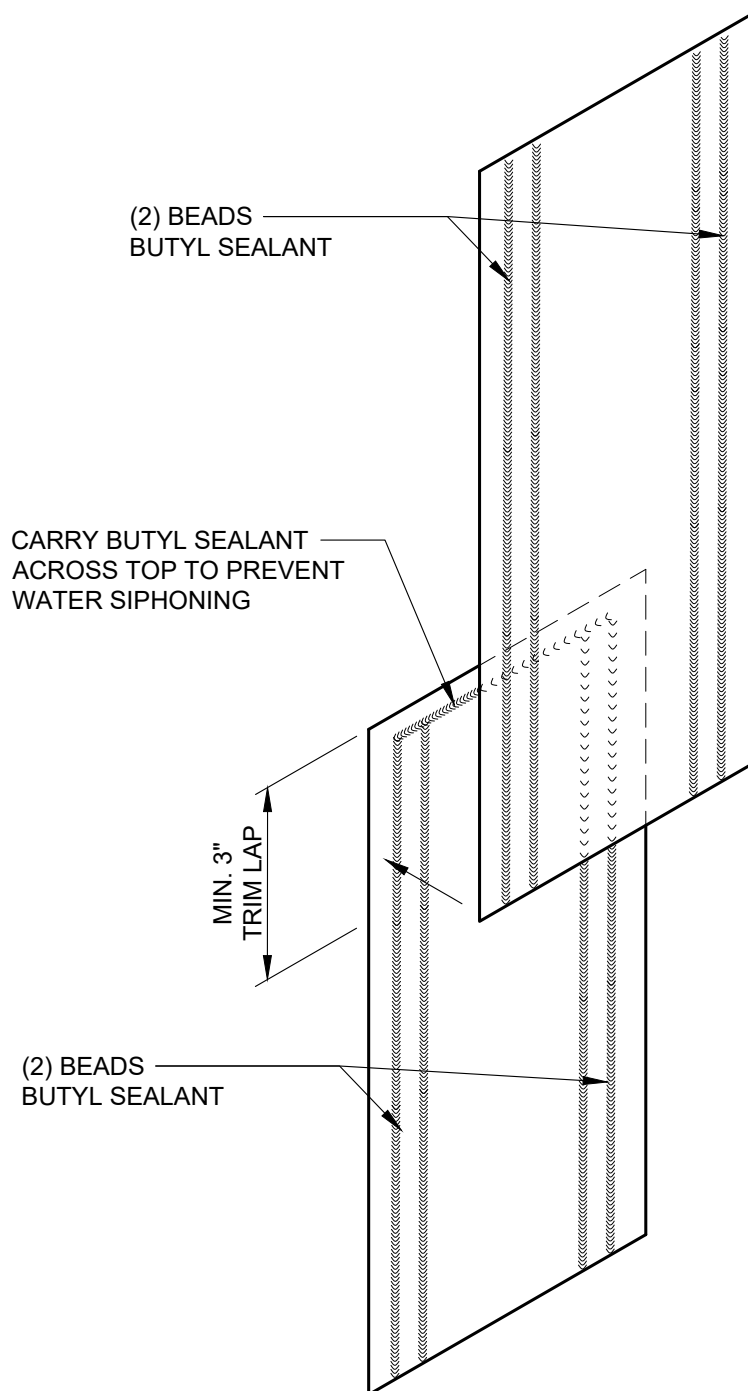
REVISION	
REVISION #	DATE
0	3/5/24

TRIM LAP WITH HEM

DETAIL #: AR-TL-02-DW2RV
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REVISION	
REVISION #	DATE
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MENDING PLATE
"SHINGLE" LAP

DETAIL #: AR-TL-03-DW2RV

RELEASE: 2024

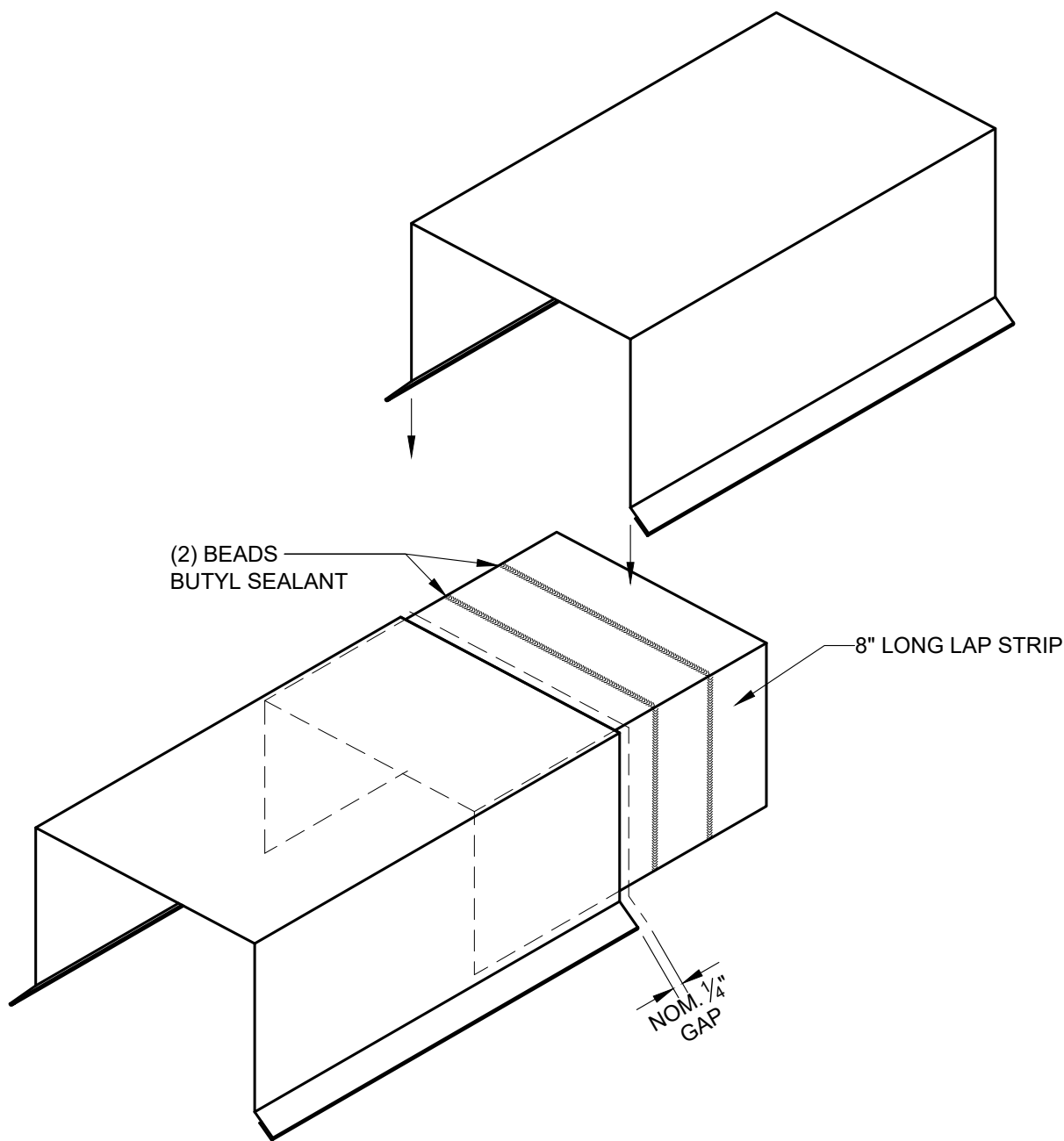
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REVISION #	DATE
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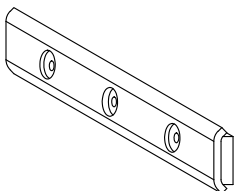
TRIM END LAP
W/ LAP STRIP

DETAIL #: AR-TL-04-DW2RV
RELEASE: 2024
REGION: NORTH AMERICA
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FASTENING CLIP

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REVISION #	DATE
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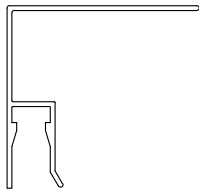
ACCESSORIES

DETAIL #: AR-TL-05-DW2RV
RELEASE: 2024
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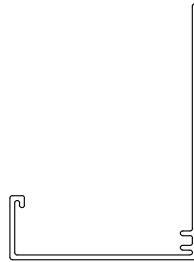


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DW-2000R - VERTICAL INSTALLATION



2.5" TWO PIECE
ENDWALL/JAMB
EXTRUSION RECEIVER
DIE #16010



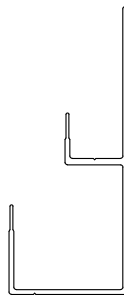
BASE EXTRUSION
DIE # 16009



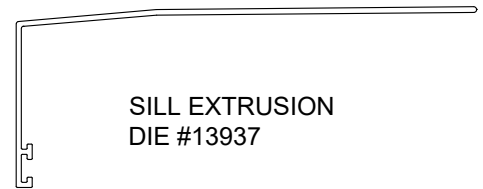
PARAPET EXTRUSION
DIE # 13938



TWO PIECE ENDWALL/JAMB
EXTRUSION CAP
DIE #11488

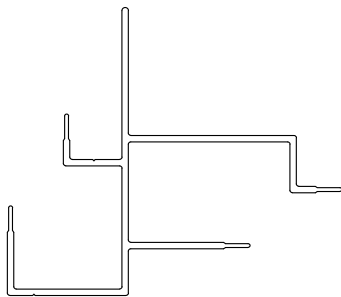


2.5" PANEL CONCEALED BASE
EXTRUSION DIE #15850

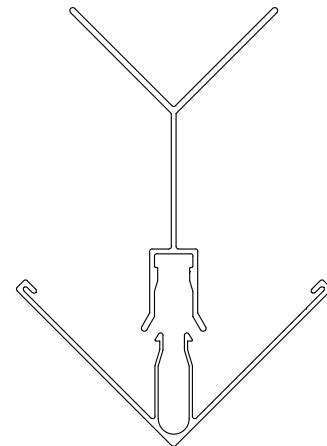


SILL EXTRUSION
DIE #13937

2.5" OUTSIDE CORNER
EXTRUSION RECEIVER
DIE #16006



2.5" PANEL CONCEALED
SOFFIT EXTRUSION
DIE #15893



CORNER
EXTRUSION CAP
DIE #13263

REVISION	
REVISION #	DATE
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2 1/2" EXTRUSIONS

DETAIL #: AR-TL-06-DW2RV

RELEASE: 2024

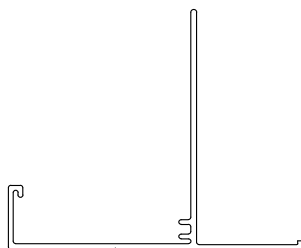
REGION: NORTH AMERICA

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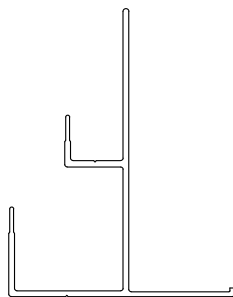


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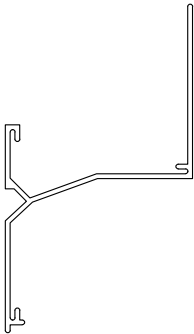
DW-2000R - VERTICAL INSTALLATION



2.5" STANDARD SOFFIT
EXTRUSION DIE #16004



2.5" FIELD CUT CONCEALED
SOFFIT EXTRUSION DIE #15854



2.5" 1 PIECE STACK JOINT
EXTRUSION PART # 2-4092

REVISION	
REVISION #	DATE
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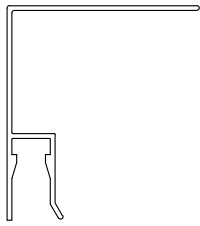
2 1/2" EXTRUSIONS

DETAIL #: AR-TL-07-DW2RV
RELEASE: 2024
REGION: NORTH AMERICA
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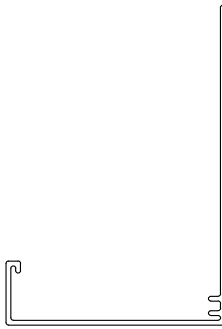


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DW-2000R - VERTICAL INSTALLATION



3" TWO PIECE
ENDWALL/JAMB
EXTRUSION RECEIVER
DIE #12714



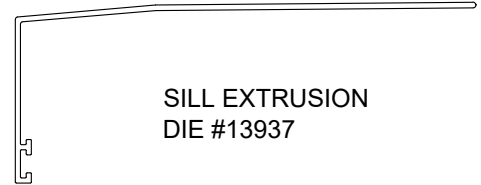
BASE EXTRUSION
DIE # 11366



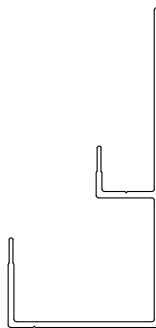
PARAPET EXTRUSION
DIE # 13938



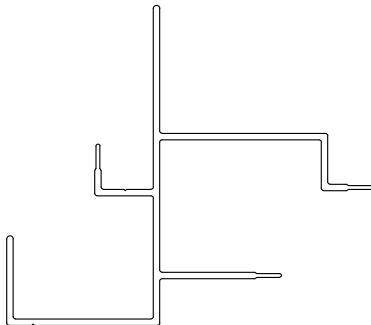
TWO PIECE ENDWALL/JAMB
EXTRUSION CAP
DIE #11488



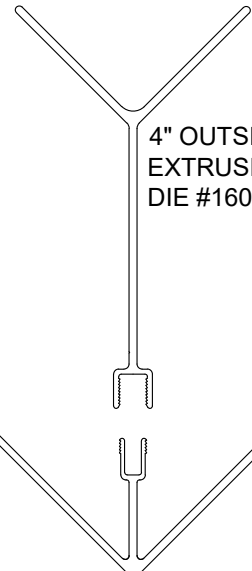
SILL EXTRUSION
DIE #13937



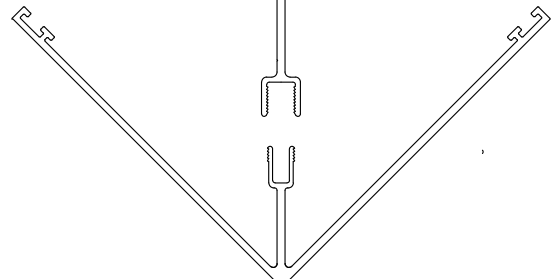
3" PANEL CONCEALED BASE
EXTRUSION DIE # 15851



3" PANEL CONCEALED
SOFFIT EXTRUSION
DIE #15894



4" OUTSIDE CORNER
EXTRUSION RECEIVER
DIE #16016



4" OUTSIDE CORNER
EXTRUSION CAP
DIE #14109

REVISION	
REVISION #	DATE
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3" EXTRUSIONS

DETAIL #: AR-TL-08-DW2RV

RELEASE: 2024

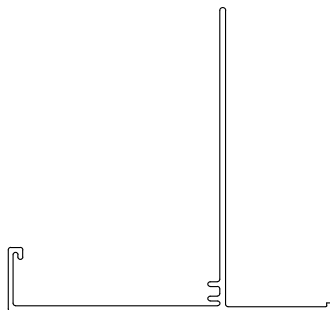
REGION: NORTH AMERICA

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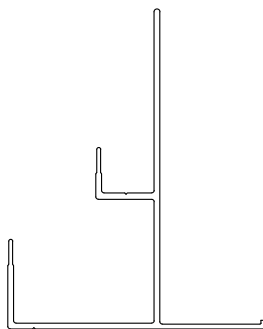


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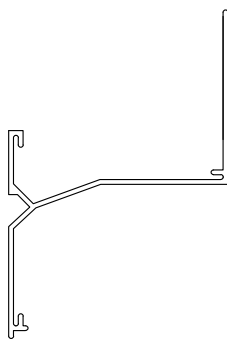
DW-2000R - VERTICAL INSTALLATION



3" STANDARD SOFFIT
EXTRUSION DIE #13789

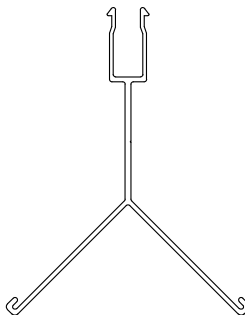
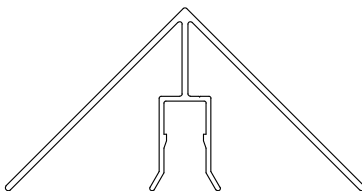


3" FIELD CUT CONCEALED
SOFFIT EXTRUSION DIE #15855



3" 1 PIECE STACK JOINT
EXTRUSION PART # 2-0270

INSIDE CORNER EXTRUSION
RECEIVER DIE #14298



3" INSIDE CORNER EXTRUSION
CAP DIE #14299

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3" EXTRUSIONS

DETAIL #: AR-TL-09-DW2RV

RELEASE: 2024

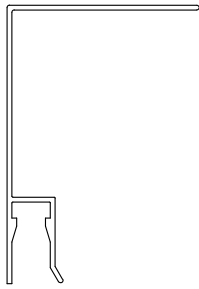
REGION: NORTH AMERICA

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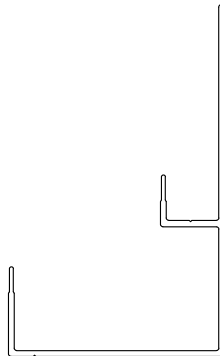


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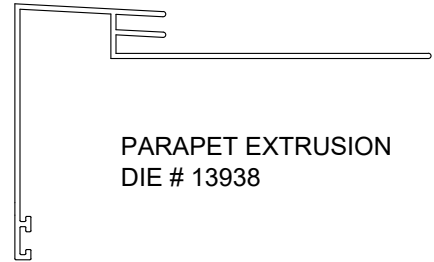
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4" TWO PIECE
ENDWALL/JAMB
EXTRUSION RECEIVER
DIE #16014



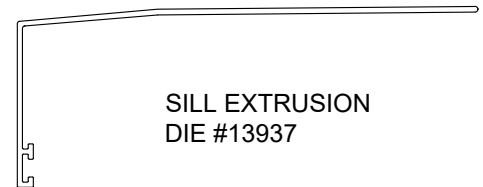
4" PANEL CONCEALED BASE
EXTRUSION DIE # 15852



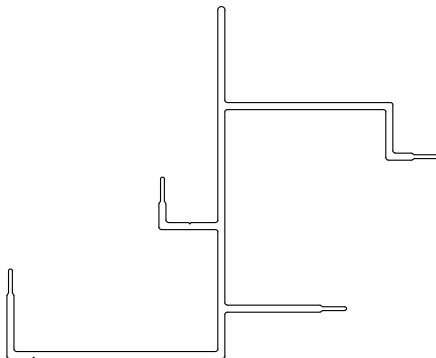
PARAPET EXTRUSION
DIE # 13938



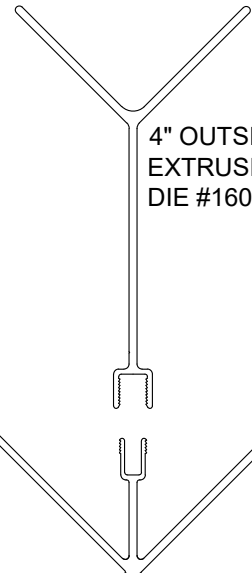
TWO PIECE ENDWALL/JAMB
EXTRUSION CAP
DIE #11488



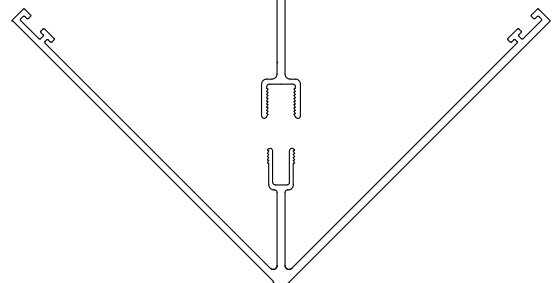
SILL EXTRUSION
DIE #13937



4" PANEL CONCEALED
SOFFIT EXTRUSION
DIE #15895



4" OUTSIDE CORNER
EXTRUSION RECEIVER
DIE #16016



4" OUTSIDE CORNER
EXTRUSION CAP
DIE #14109

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4" EXTRUSIONS

DETAIL #: AR-TL-10-DW2RV

RELEASE: 2024

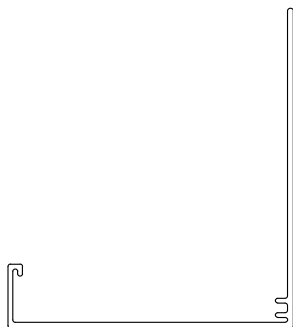
REGION: NORTH AMERICA

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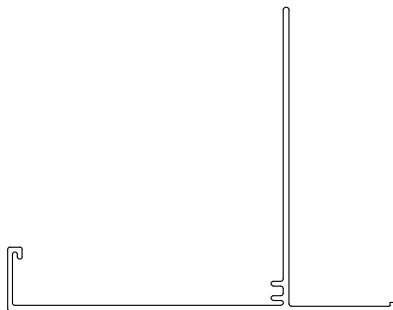


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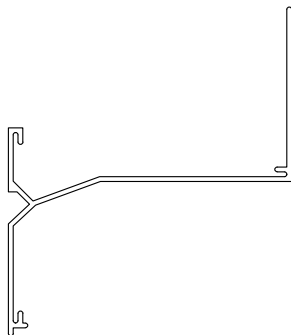
DW-2000R - VERTICAL INSTALLATION



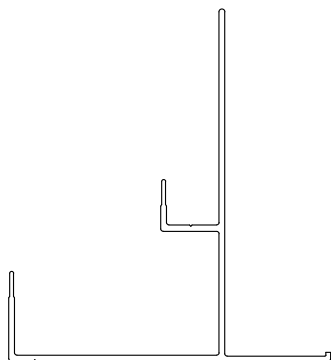
4" STANDARD BASE
EXTRUSION DIE #16011



4" STANDARD SOFFIT
EXTRUSION DIE #16012



4" 1 PIECE STACK JOINT
EXTRUSION PART # 2-4101



4" FIELD CUT CONCEALED
SOFFIT EXTRUSION DIE #15856

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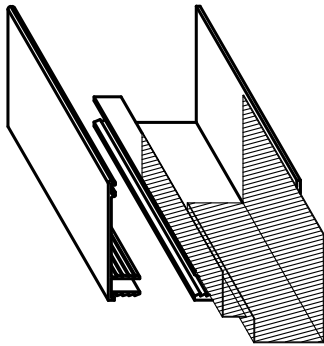
4" EXTRUSIONS

DETAIL #: AR-TL-11-DW2RV
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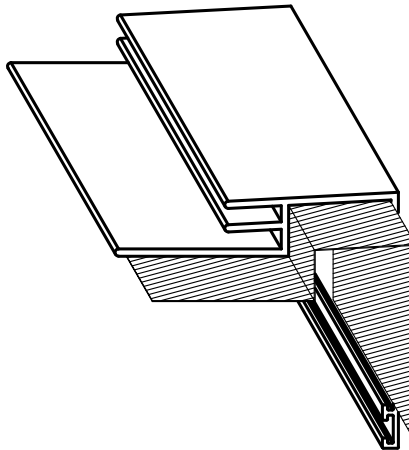


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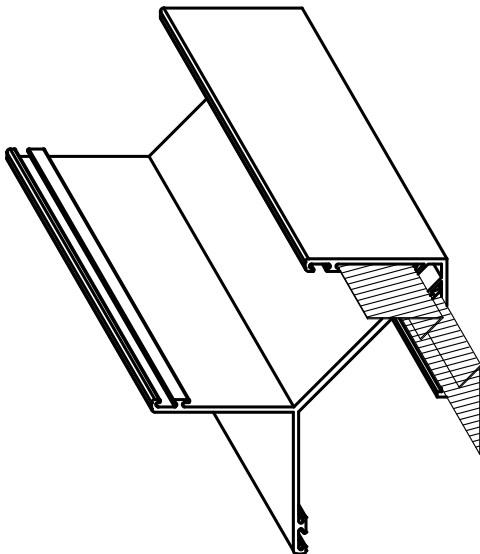
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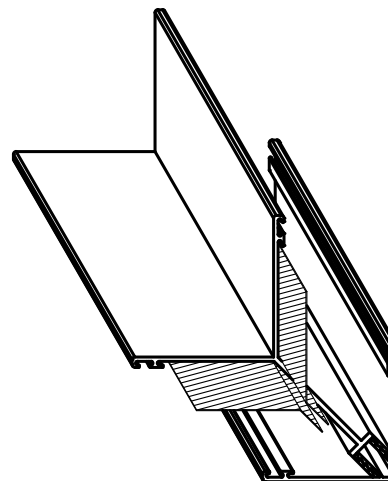
LAP STRIP FOR TWO PIECE
JAMB EXTRUSION



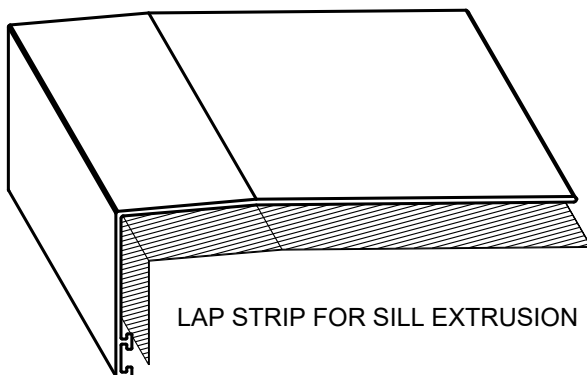
LAP STRIP FOR PARAPET EXTRUSION



LAP STRIPS FOR OUTSIDE CORNER
EXTRUSION



LAP STRIPS FOR INSIDE CORNER
EXTRUSION



LAP STRIP FOR SILL EXTRUSION

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EXTRUSION
LAP STRIPS

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