

VALE - HORIZONTAL INSTALL

REVISION

0	5/18/23
1	5/30/24

CI-DS-01-VH	C & I DISCLAIMER
CI-PP-01-VH	PANEL PROFILES
CI-PP-02-VH	METAL CLOSURES
CI-PJ-01-VH	PANEL JOINT - EXPANDED
CI-PJ-02-VH	PANEL JOINT - ENGAGE
CI-PJ-03-VH	PANEL JOINT - INTERMEDIATE FASTENING
CI-BS-01-VH	FLUSH BASE W/ TRIM
CI-BS-02-VH	FLUSH BASE W/ EXTRUSION
CI-BS-03-VH	OVERHANG BASE CUT PANEL W/ TRIM
CI-BS-04-VH	OVERHANG BASE CUT PANEL W/ EXTRUSION
CI-BS-05-VH	FLUSH BASE DETAIL W/ "J" STARTER AND TRIM AT JOINT
CI-BS-06-VH	OVERHANG BASE W/ "J" STARTER W/ TRIM AT JOINT
CI-OC-01-VH	OUTSIDE CORNER - FLAT TRIM
CI-OC-02-VH	OUTSIDE CORNER - FACTORY FOLDED
CI-IC-01-VH	INSIDE CORNER - FLAT TRIM
CI-FO-01-VH	FRAMED OPENING HEAD
CI-FO-03-VH	FRAMED OPENING JAMB
CI-FO-04-VH	FRAMED OPENING SILL
CI-FO-05-VH	OVERHEAD DOOR HEAD
CI-FO-06-VH	OVERHEAD DOOR JAMB
CI-FO-07-VH	FRAMED OPENING TRIM INSTALLATION
CI-PR-01-VH	PARAPET FIELD CUT PANEL W/ FLUSH TRIM
CI-PR-02-VH	PARAPET LAP STRIP INSTALLATION
CI-WR-01-VH	WALL TO ROOF LOW EAVE W/O GUTTER
CI-WR-02-VH	WALL TO ROOF LOW EAVE W/ GUTTER
CI-WR-03-VH	WALL TO ROOF HIGH EAVE
CI-WR-04-VH	WALL TO ROOF RAKE
CI-WR-05-VH	WALL ABOVE TO ROOF / CANOPY
CI-WR-06-VH	WALL CONTINUOUS TO ROOF / CANOPY

INDEX SHEET

DETAIL #: XX-XX-XX-VH

RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL

REVISION

0	5/18/23
1	5/30/24

CI-VJ-01-VH	VERTICAL JOINT W/ COVER TRIM
CI-VJ-02-VH	VERTICAL JOINT INSTALLATION SEQUENCE
CI-VJ-03-VH	VERTICAL JOINT INSTALLATION SEQUENCE
CI-VJ-04-VH	VERTICAL JOINT INSTALLATION SEQUENCE
CI-VJ-05-VH	VERTICAL JOINT INSTALLATION SEQUENCE
CI-VJ-06-VH	VERTICAL JOINT INSTALLATION SEQUENCE
CI-VJ-07-VH	VERTICAL JOINT INSTALLATION SEQUENCE
CI-VJ-08-VH	VERTICAL JOINT INSTALLATION SEQUENCE
CI-CL-01-VH	METAL CLOSURE INSTALLATION
CI-CL-02-VH	METAL CLOSURE INSTALLATION
CI-PE-01-VH	PIPE PENETRATION SECTION
CI-PE-02-VH	PIPE PENETRATION ISOMETRIC
CI-PE-03-VH	KNIFE PLATE PENETRATION
CI-PE-04-VH	KNIFE PLATE ISOMETRIC
CI-PE-05-VH	BEAM PENETRATION
CI-PE-06-VH	BEAM PENETRATION ISOMETRIC
CI-PE-07-VH	BOX PENETRATION INSTALLATION SEQUENCE
CI-PE-08-VH	BOX PENETRATION INSTALLATION SEQUENCE
CI-PE-09-VH	BOX PENETRATION INSTALLATION SEQUENCE
CI-PE-10-VH	BOX PENETRATION INSTALLATION SEQUENCE
CI-PE-11-VH	BOX PENETRATION INSTALLATION SEQUENCE
CI-PE-12-VH	BOX PENETRATION INSTALLATION SEQUENCE
CI-PE-13-VH	BOX PENETRATION SECTION
CI-TL-01-VH	TRIM LAP DETAIL
CI-TL-02-VH	TRIM LAP DETAIL W/ HEM
CI-TL-03-VH	MENDING PLATE SHINGLE LAP
CI-TL-04-VH	MENDING PLATE EXTRUSIONS
CI-EX-01-VH	3" EXTRUSIONS
CI-EX-02-VH	4" EXTRUSIONS

INDEX SHEET

DETAIL #: XX-XX-XX-VH

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REGION: NORTH AMERICA

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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.

ALL STRUCTURAL SUPPORTS ARE NOT BY KINGSPAN AND ARE SHOWN FOR CLARIFICATION PURPOSES ONLY.

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REVISION #	DATE
0	05/18/23

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INDUSTRIAL
DISCLAIMER

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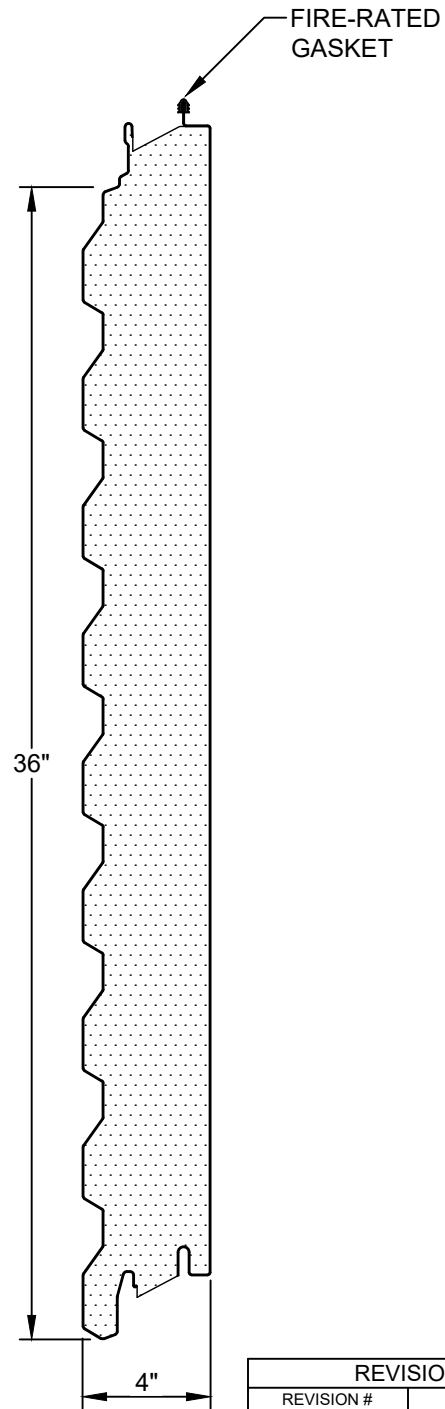
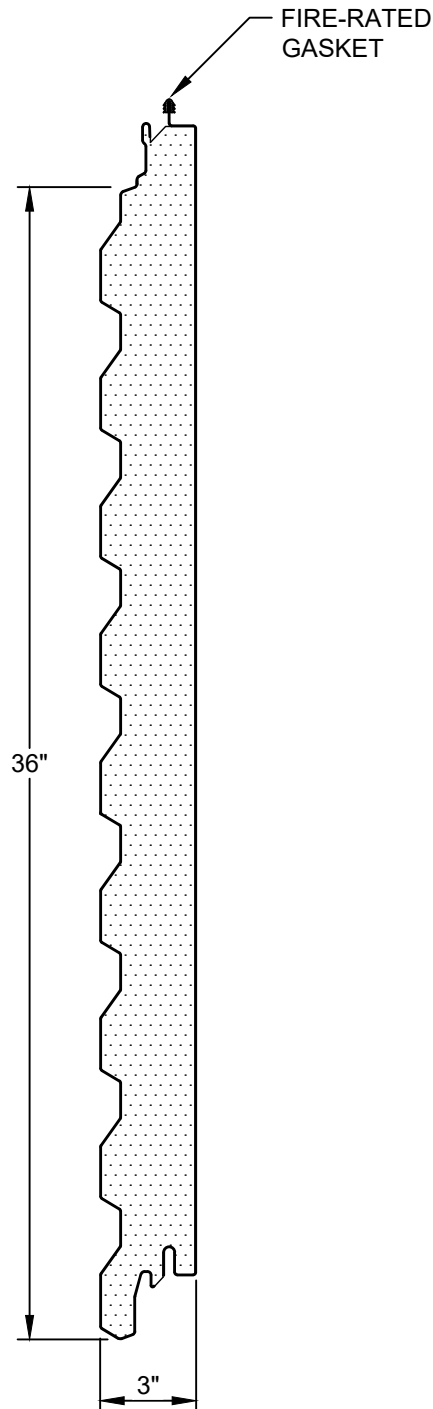
CORE DEPTHS:
3", 4"

STEEL GAUGES:
EXTERIOR: 22GA
INTERIOR: 24GA

MODULE WIDTH:
36"

PANEL ORIENTATION:
HORIZONTAL

EMBOSSING:
EXTERIOR: STUCCO / SMOOTH
INTERIOR: SMOOTH
LENGTHS:
MINIMUM: 2'-0"
MAXIMUM: 24'-0"



REVISION	
REVISION #	DATE
0	05/18/23

PANEL PROFILES -
HORIZONTAL

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RELEASE: 2024

REGION: NORTH AMERICA

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METAL CLOSURE

LEFT

SIDE
VIEW



TOP
VIEW



SECTION
VIEW

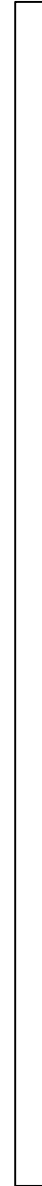


RIGHT

SECTION
VIEW



TOP
VIEW



SIDE
VIEW



REVISION

REVISION #	DATE
0	05/18/23

METAL CLOSURE

DETAIL #: CI-PP-02-VH

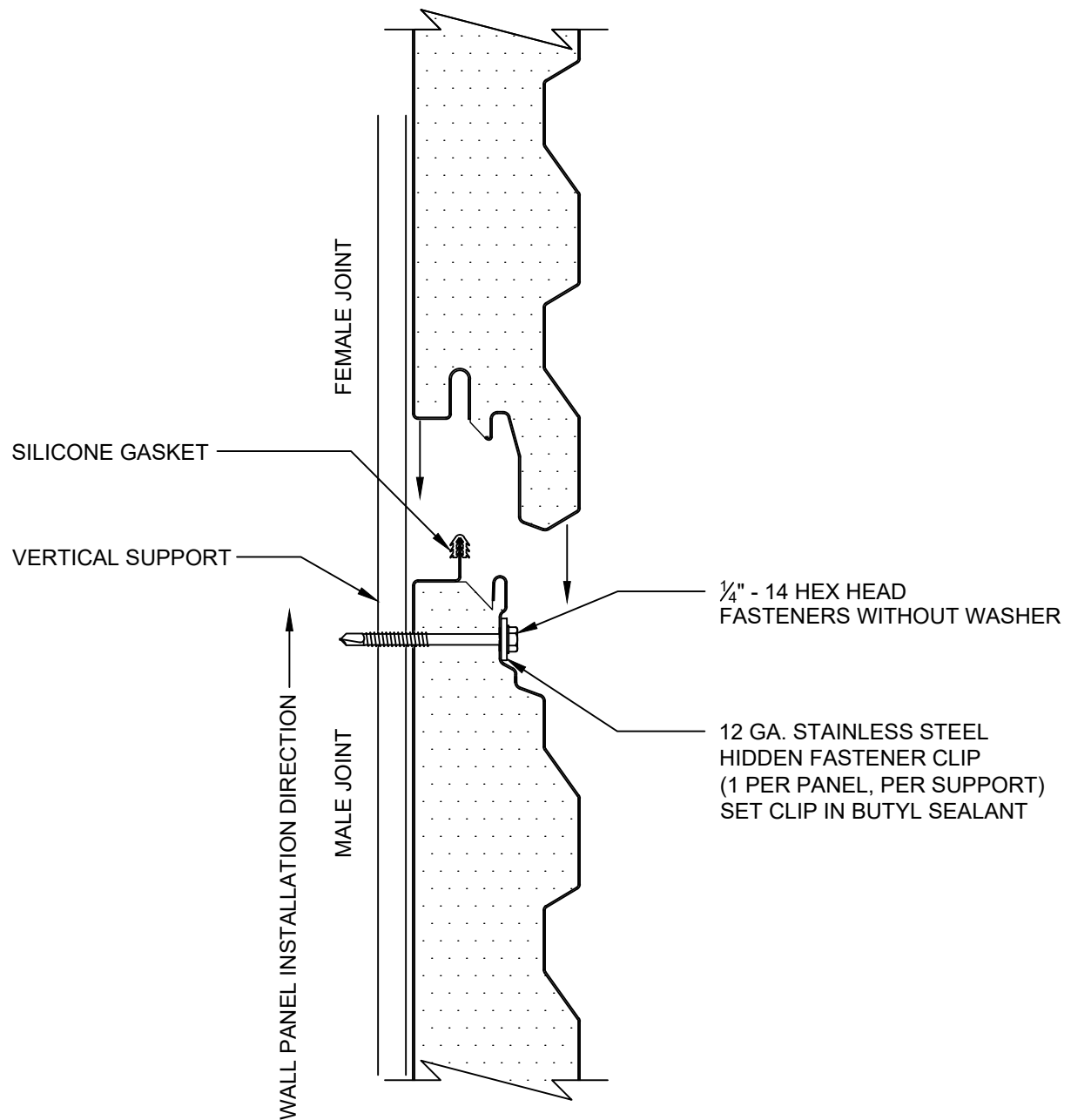
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REVISION	
REVISION #	DATE
0	05/18/23

PANEL JOINT- EXPANDED

DETAIL #: CI-PJ-01-VH

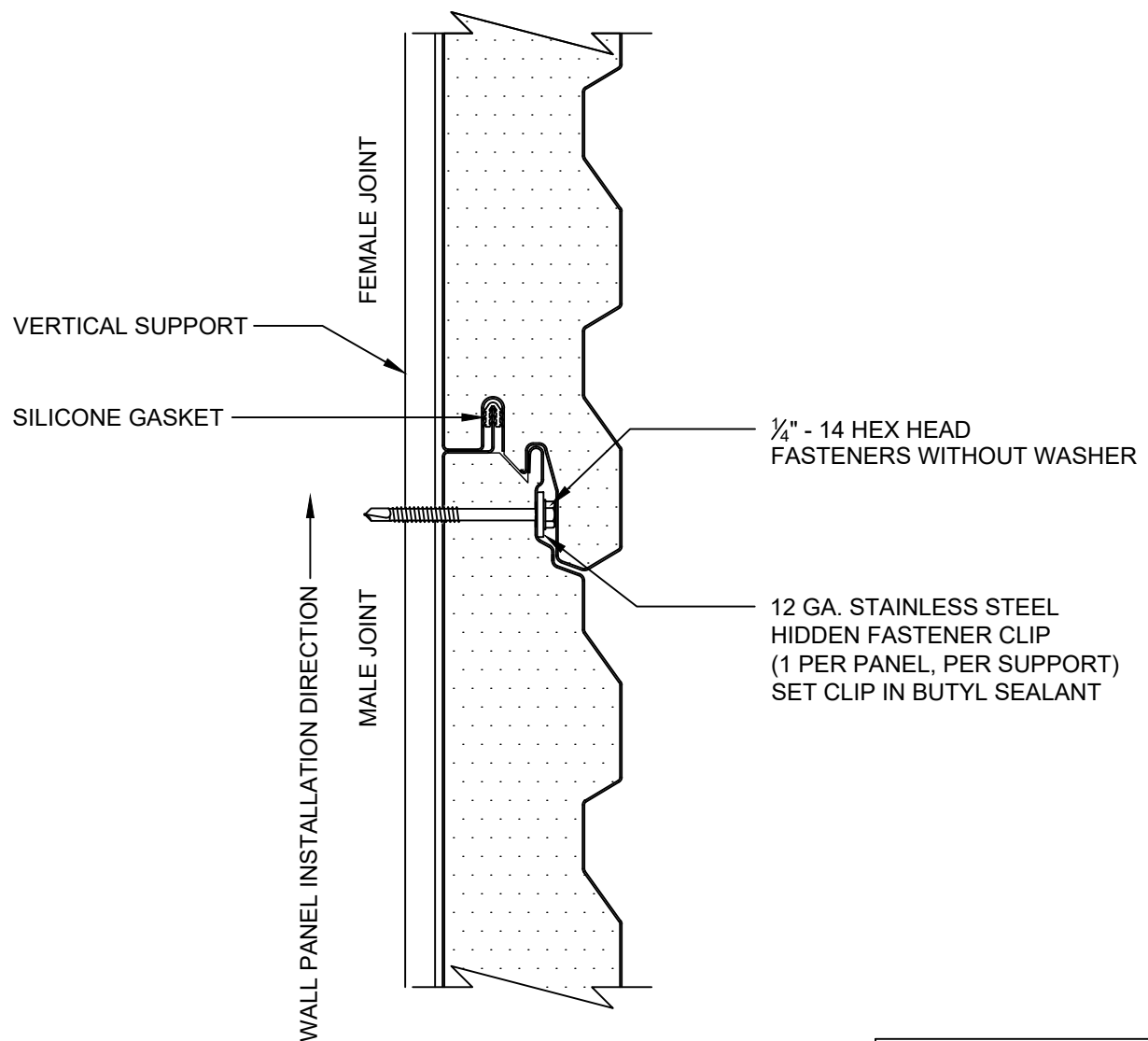
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REVISION	
REVISION #	DATE
0	05/18/23

PANEL JOINT- ENGAGED

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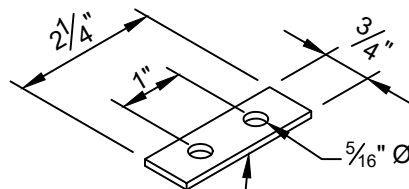
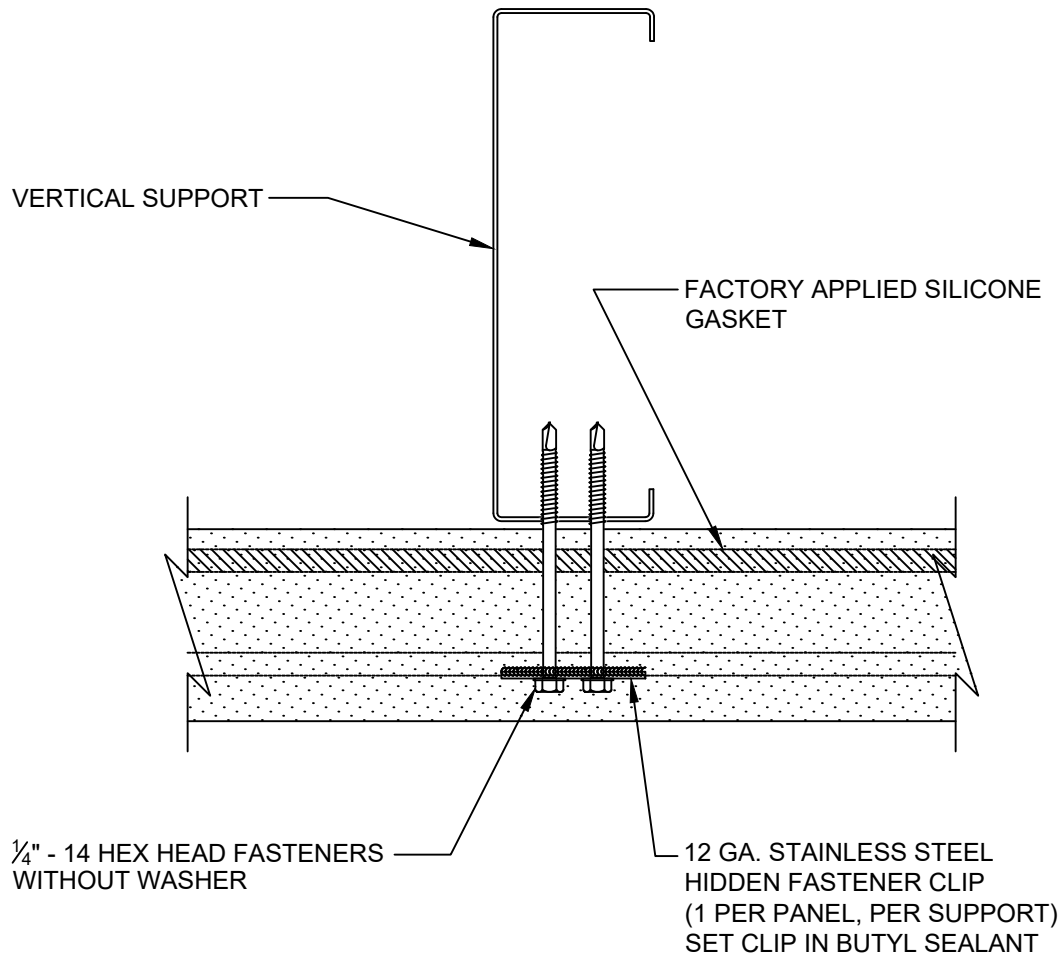
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STANDARD:
12 GA. STAINLESS STEEL
TWO-HOLE HIDDEN FASTENER CLIP

NOTE:
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REVISION	
REVISION #	DATE
0	05/18/23

PANEL JOINT-
INTERMEDIATE
FASTENING

DETAIL #: CI-PJ-05-VH

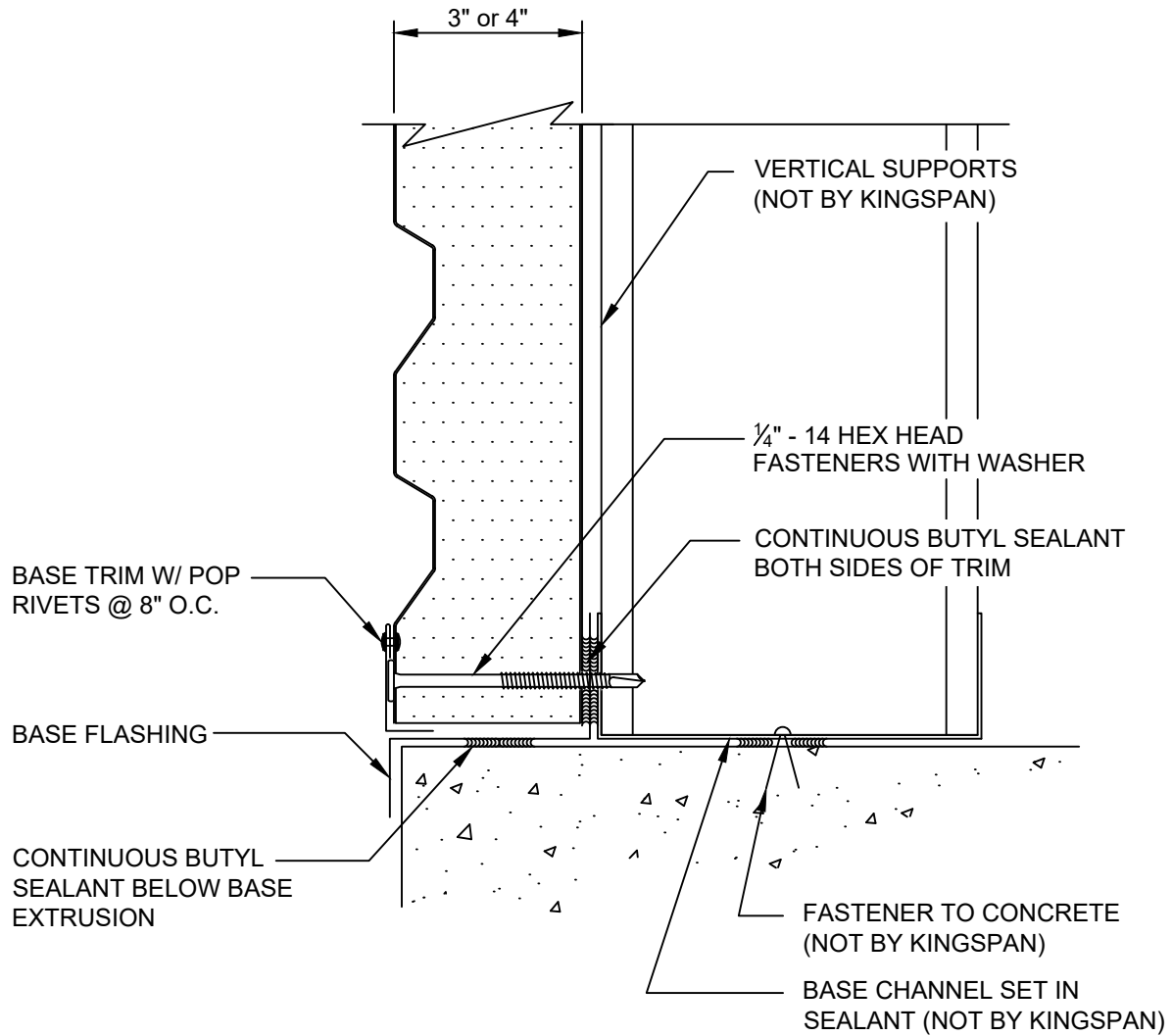
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REVISION	
REVISION #	DATE
0	05/18/23

FLUSH BASE DETAIL- W/
TRIM

DETAIL #: CI-BS-01-VH

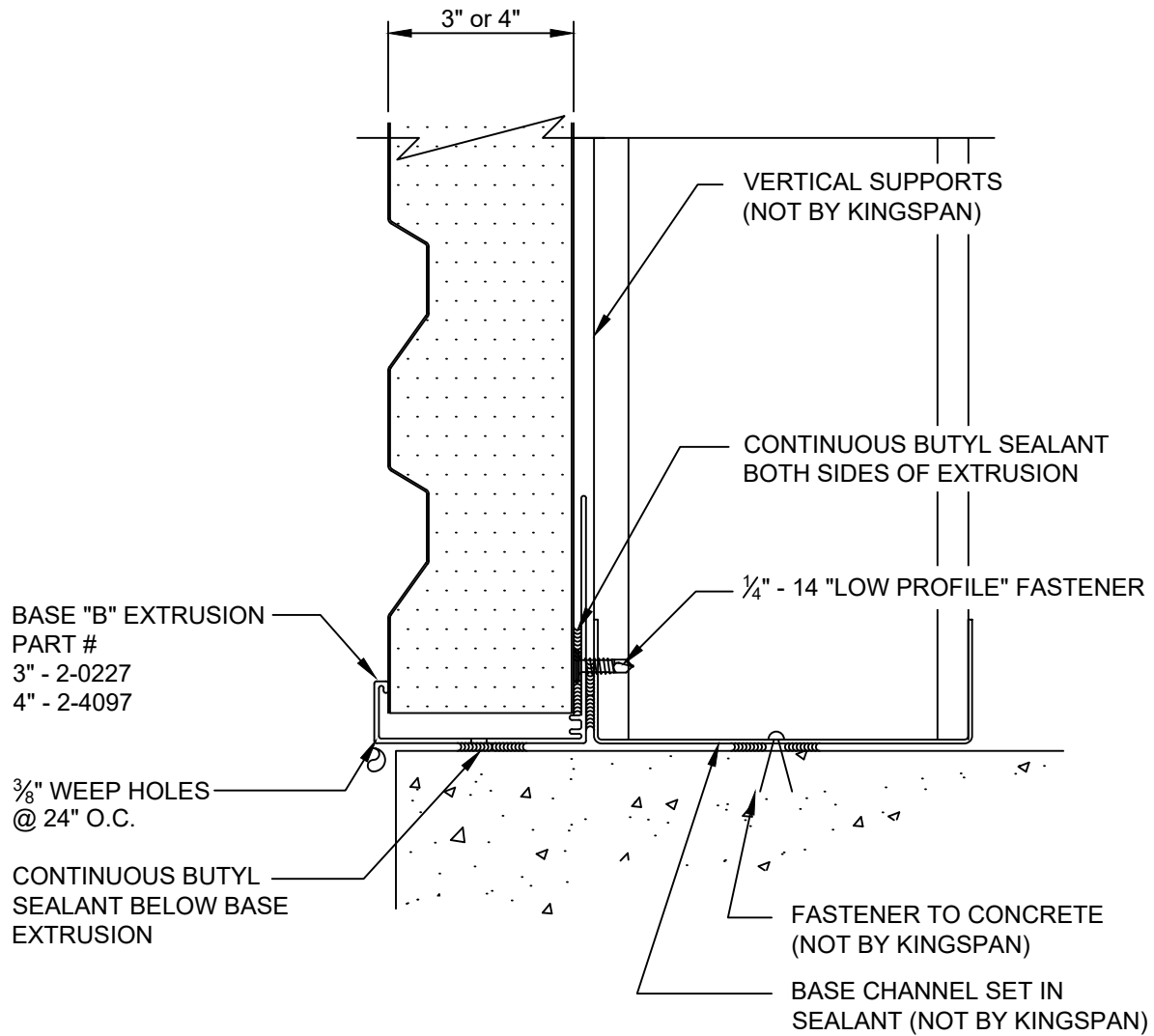
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REVISION	
REVISION #	DATE
0	05/18/23

FLUSH BASE DETAIL- W/
EXTRUSION

DETAIL #: CI-BS-02-VH

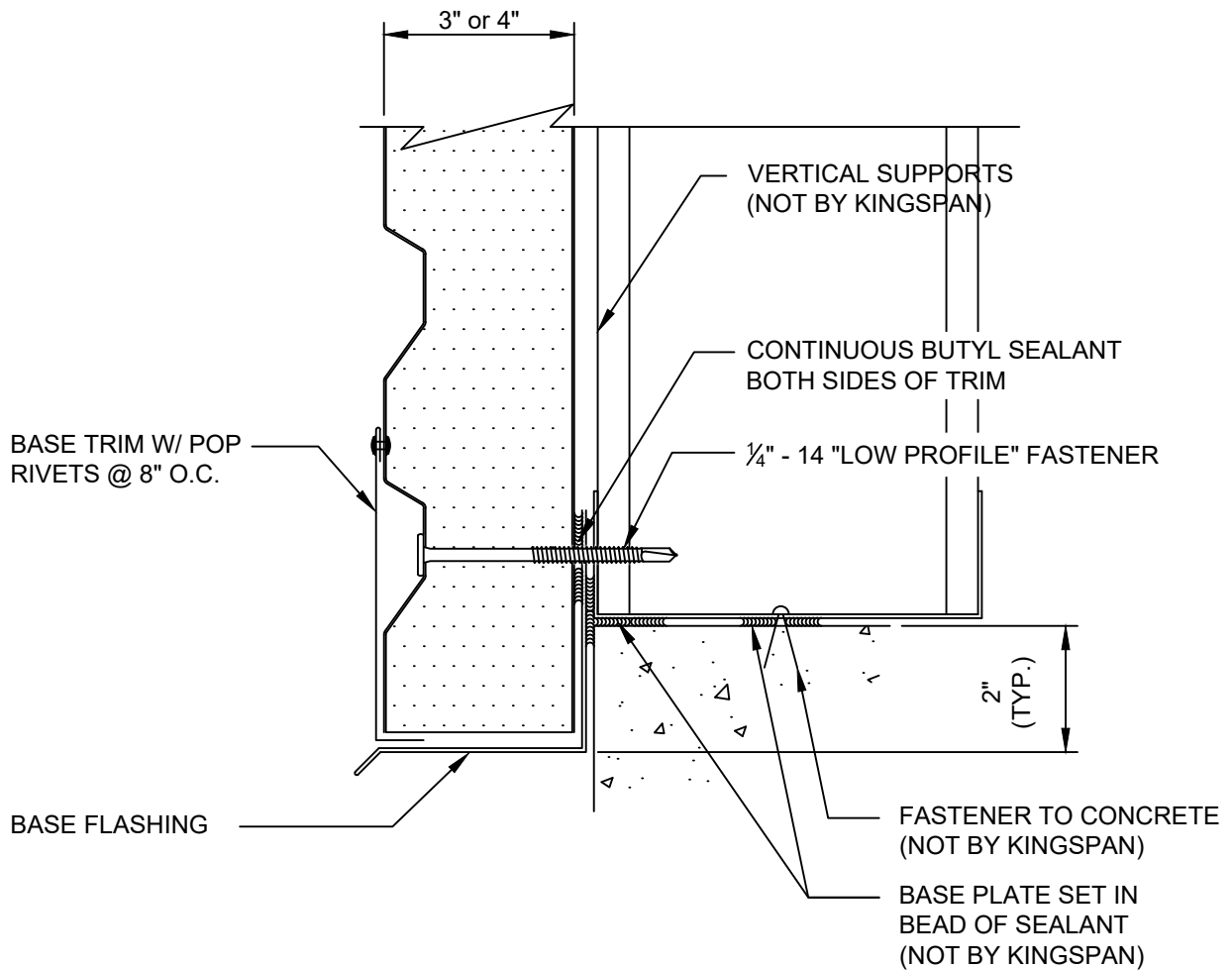
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REGION: NORTH AMERICA

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REVISION	
REVISION #	DATE
0	05/18/23

OVERHANG BASE DETAIL-
CUT PANEL WITH TRIM

DETAIL #: CI-BS-03-VH

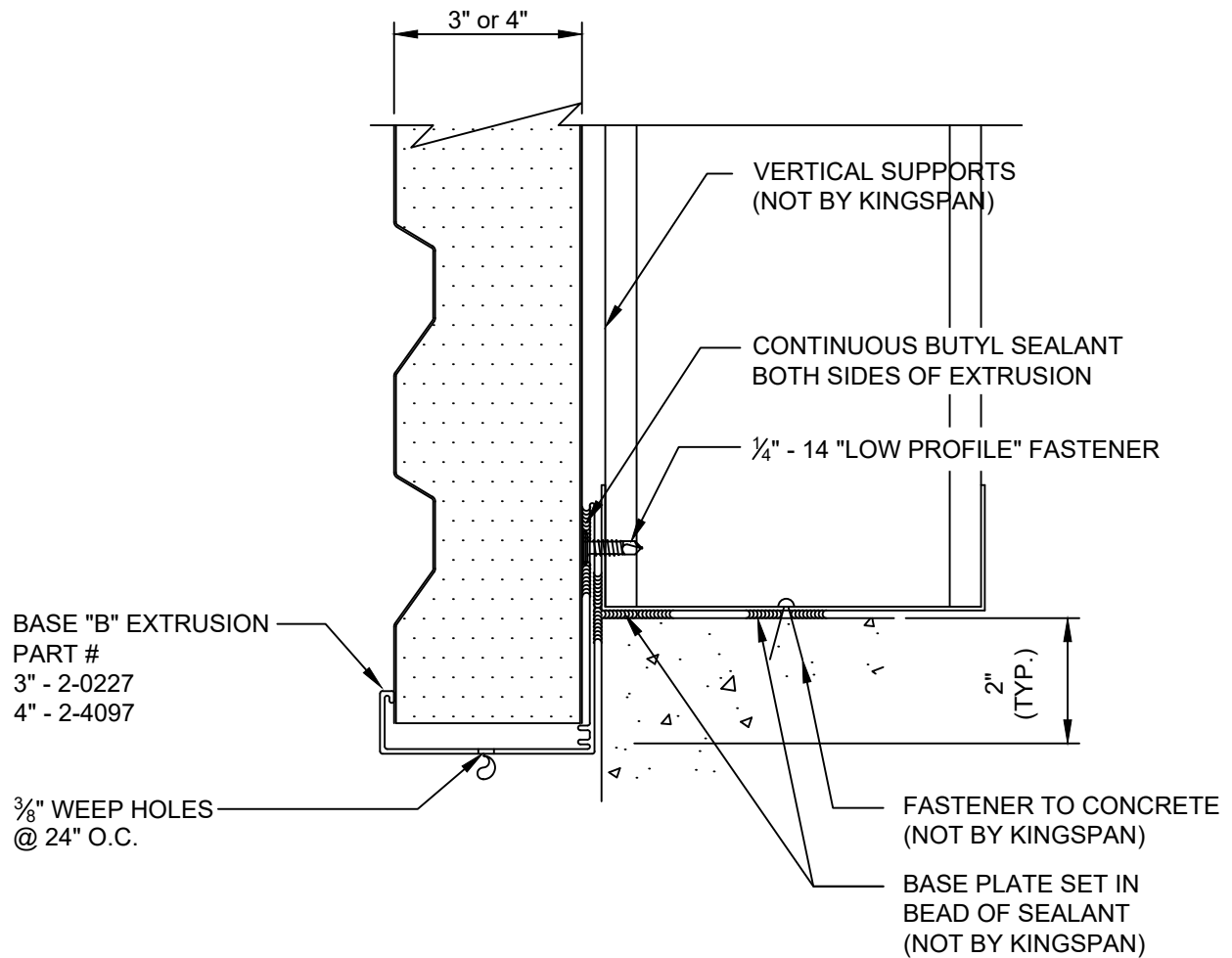
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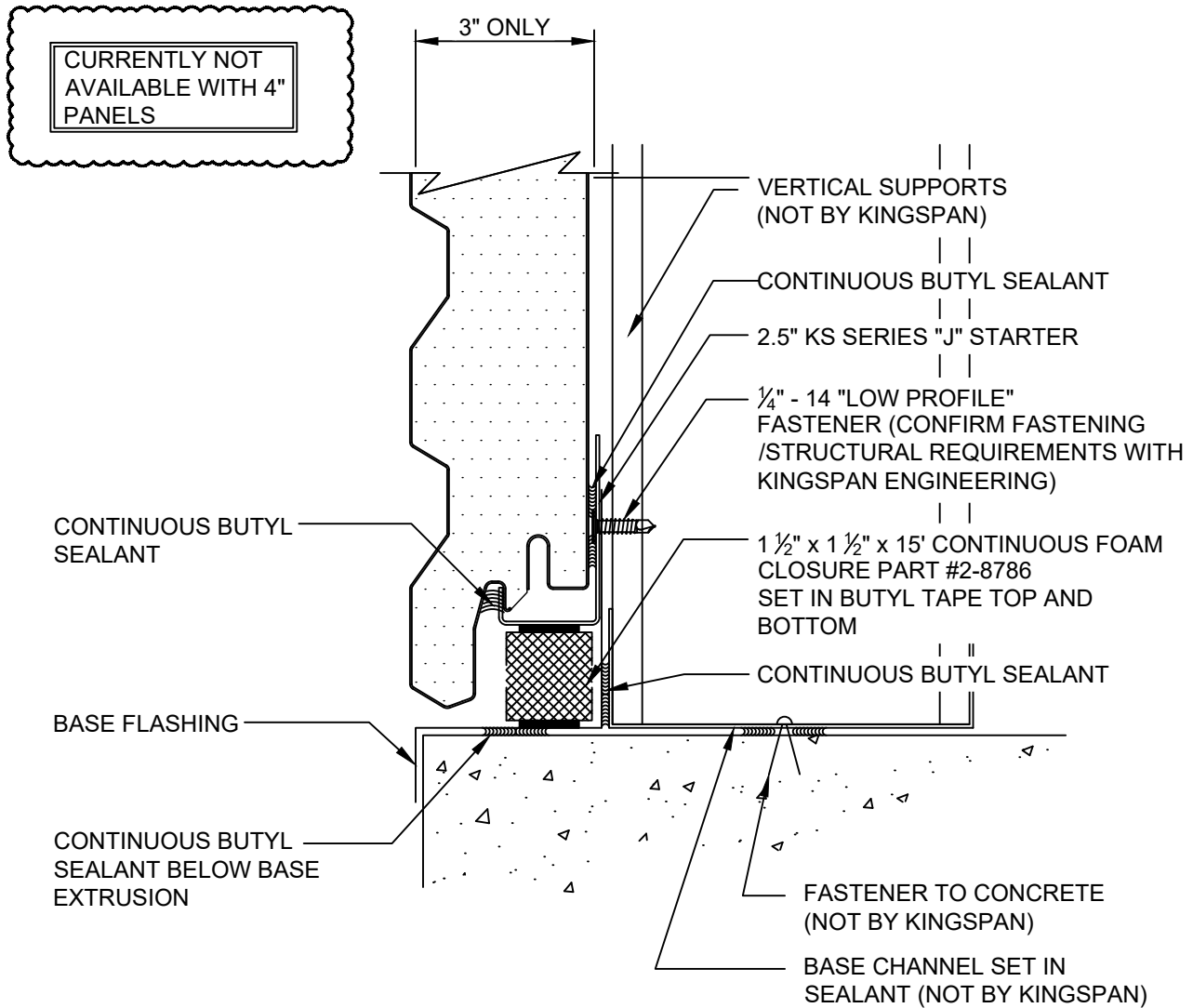
REVISION	
REVISION #	DATE
0	05/18/23

OVERHANG BASE DETAIL-
CUT PANEL WITH
EXTRUSION

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REVISION	
REVISION #	DATE
0	05/18/23

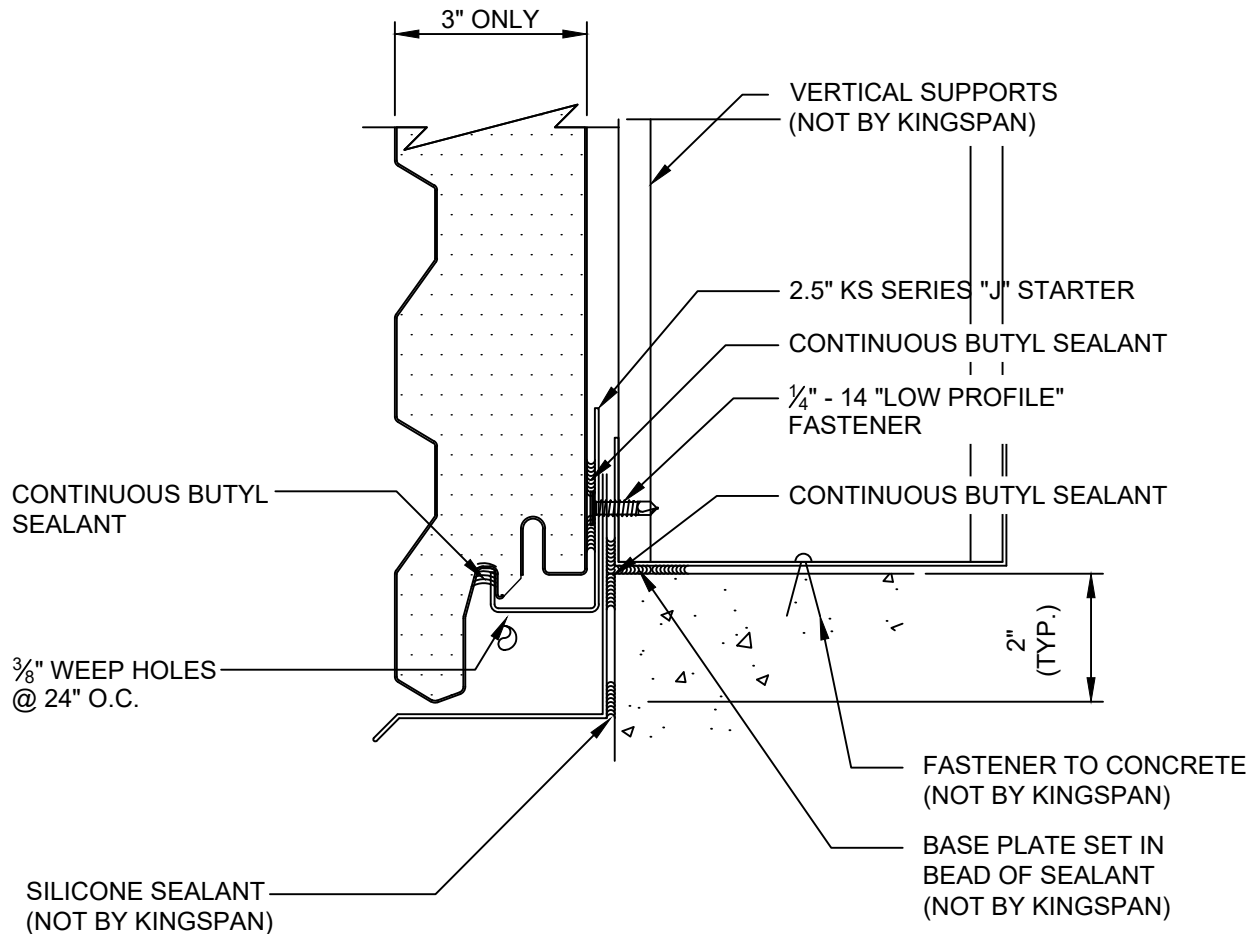
FLUSH BASE DETAIL - "J"
STARTER W/ TRIM

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CURRENTLY NOT
AVAILABLE WITH 4"
PANELS



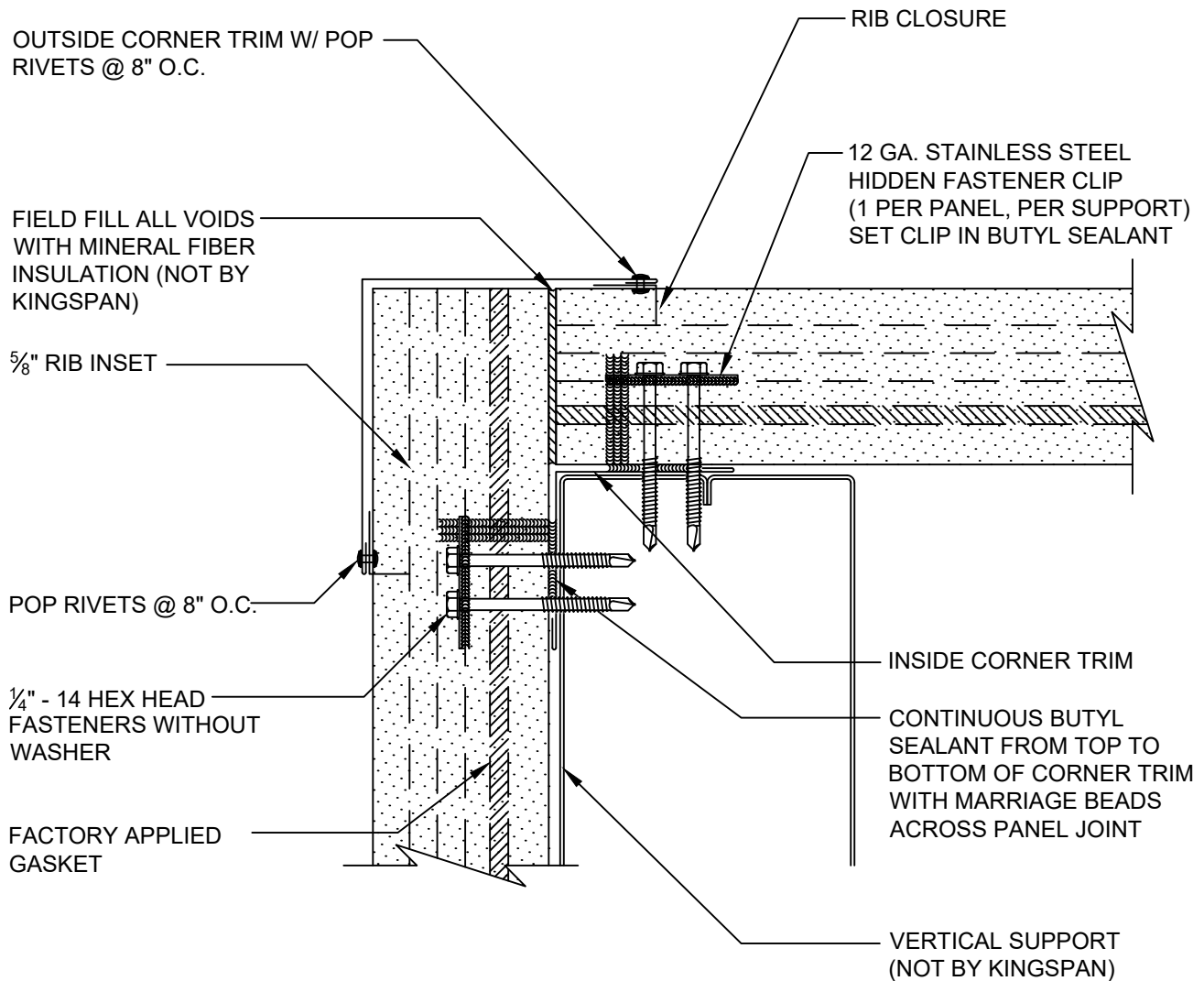
REVISION	
REVISION #	DATE
0	05/18/23

OVERHANG BASE DETAIL -
"J" STARTER W/ TRIM

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RELEASE: 2024
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REVISION	
REVISION #	DATE
0	05/18/23

OUTSIDE CORNER
WITH FLAT TRIM

DETAIL #: CI-OC-01-VH

RELEASE: 2024

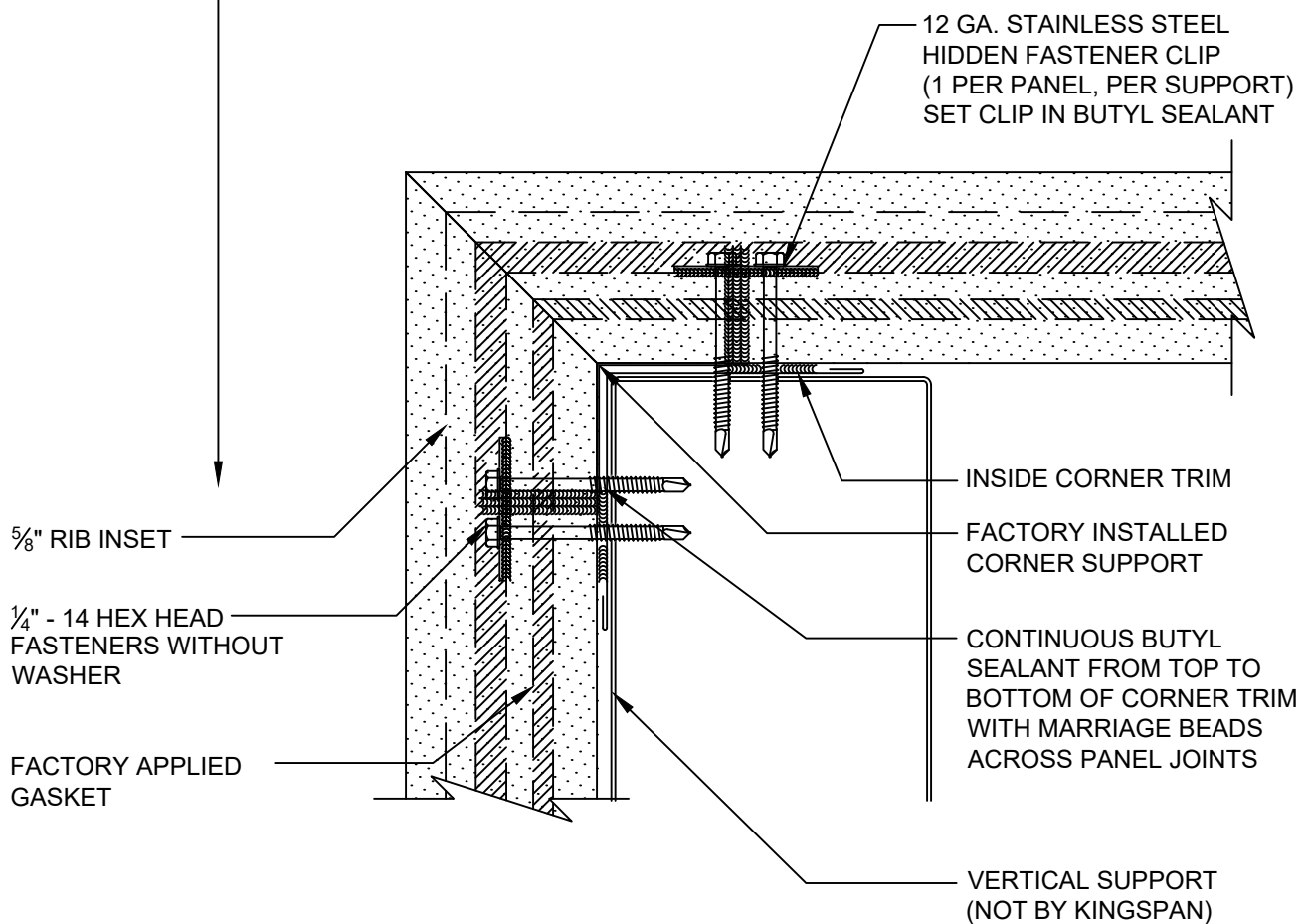
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MINIMUM LEG LENGTH - 1'-0"
MAXIMUM LEG LENGTH - 14'-0"
INTERIOR ANGLE - 90°



REVISION	
REVISION #	DATE
0	05/18/23

OUTSIDE CORNER
FACTORY FOLDED

DETAIL #: CI-OC-02-VH

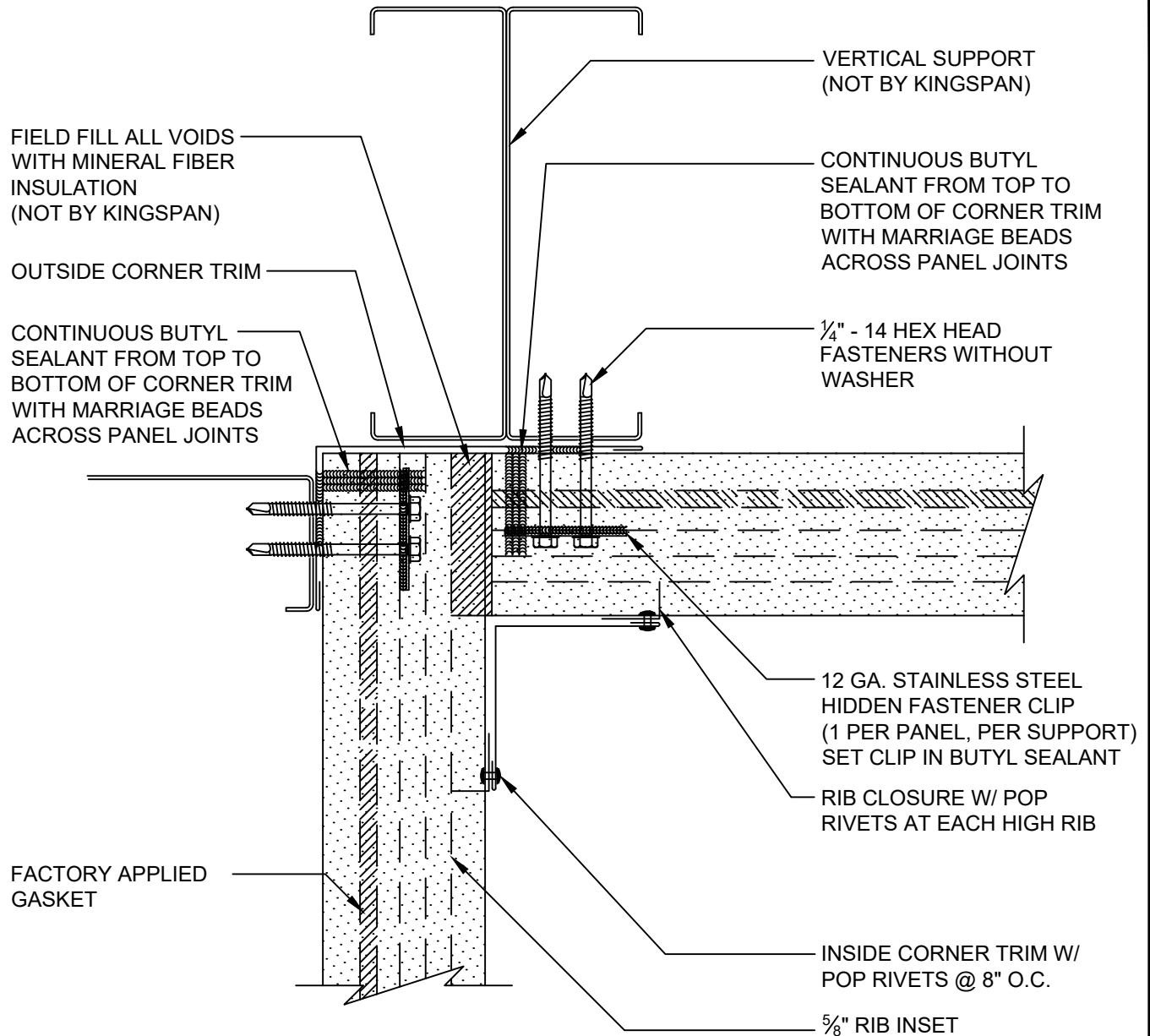
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REVISION	
REVISION #	DATE
0	05/18/23

INSIDE CORNER
WITH TRIM

DETAIL #: CI-IC-01-VH

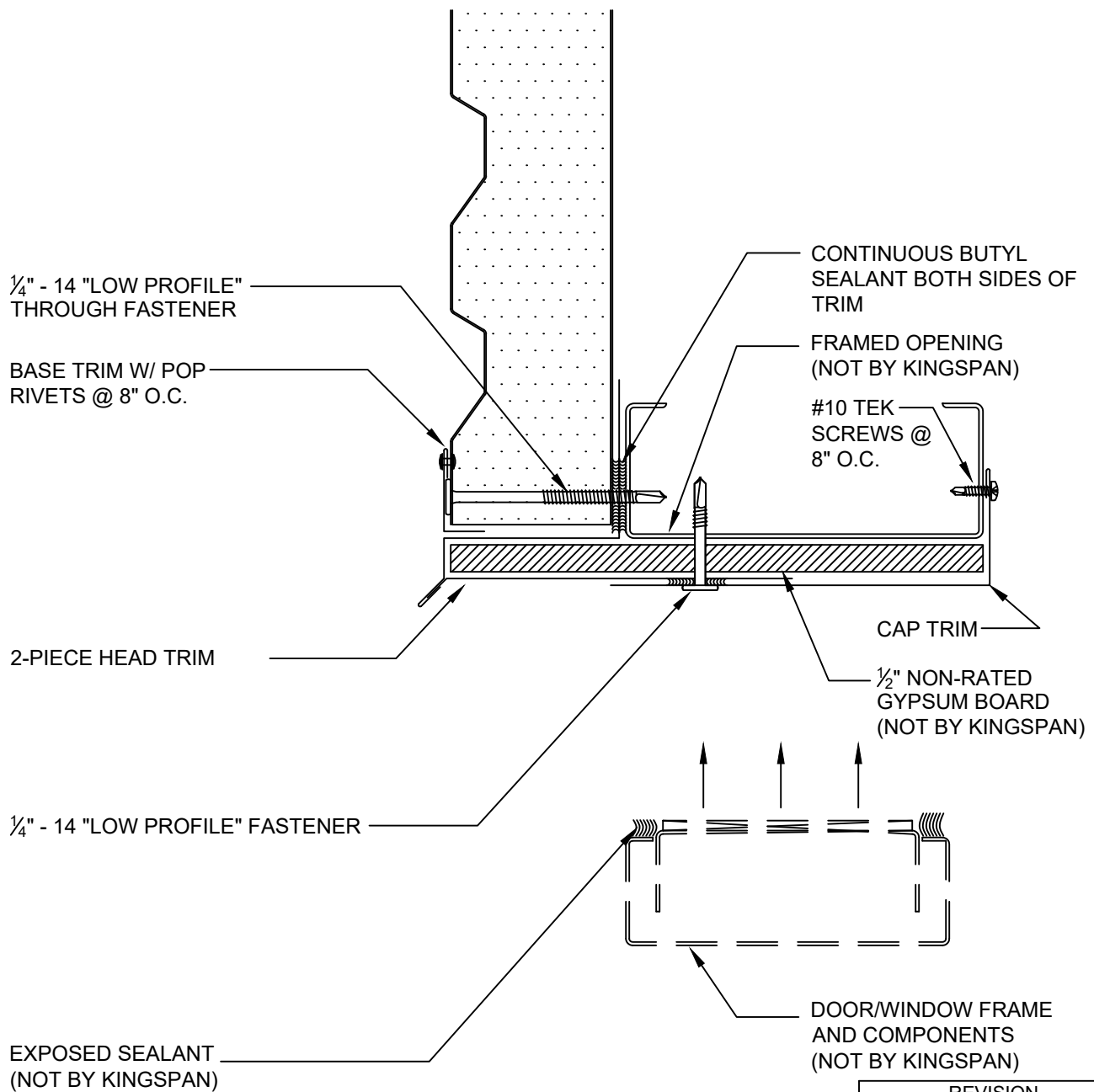
RELEASE: 2024

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REVISION	
REVISION #	DATE
0	05/18/23

FRAMED OPENING HEAD

DETAIL #: CI-FO-01-VH

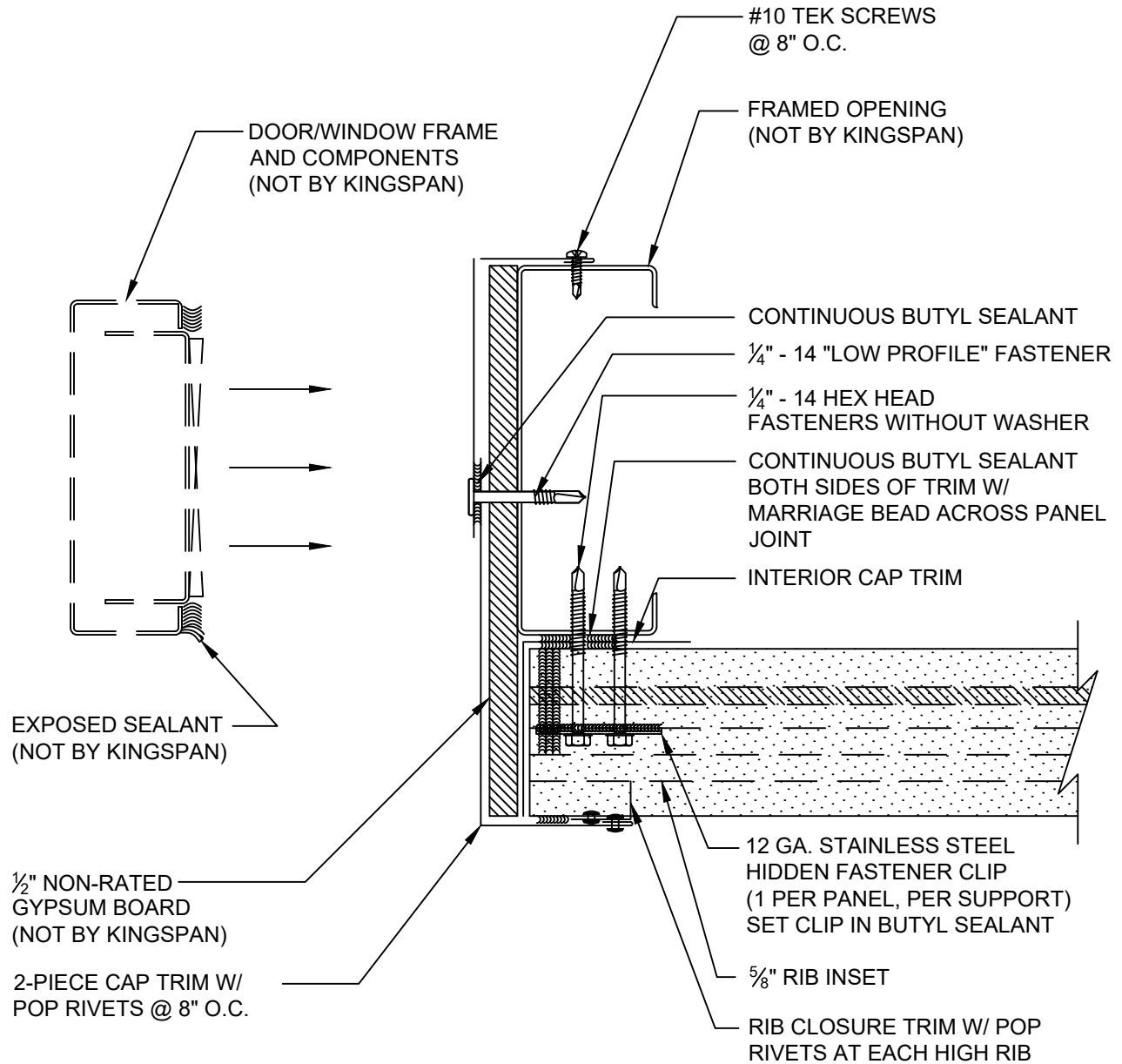
RELEASE: 2024

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REVISION	
REVISION #	DATE
0	05/18/23

FRAMED OPENING
JAMB - 2 PIECE CAP TRIM

DETAIL #: CI-FO-03-VH

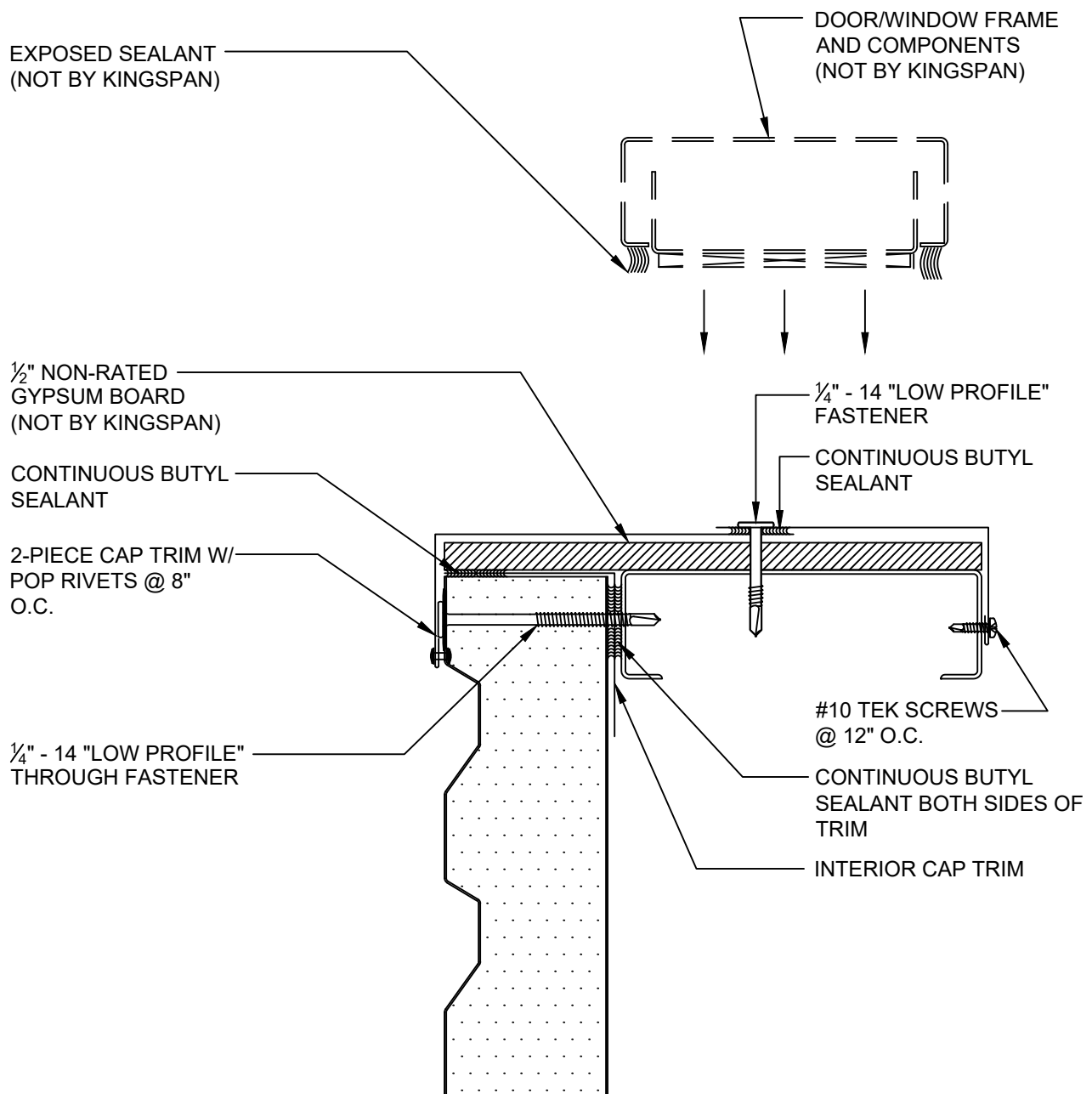
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REVISION	
REVISION #	DATE
0	05/18/23

FRAMED OPENING
SILL @ RIB

DETAIL #: CI-FO-04-VH

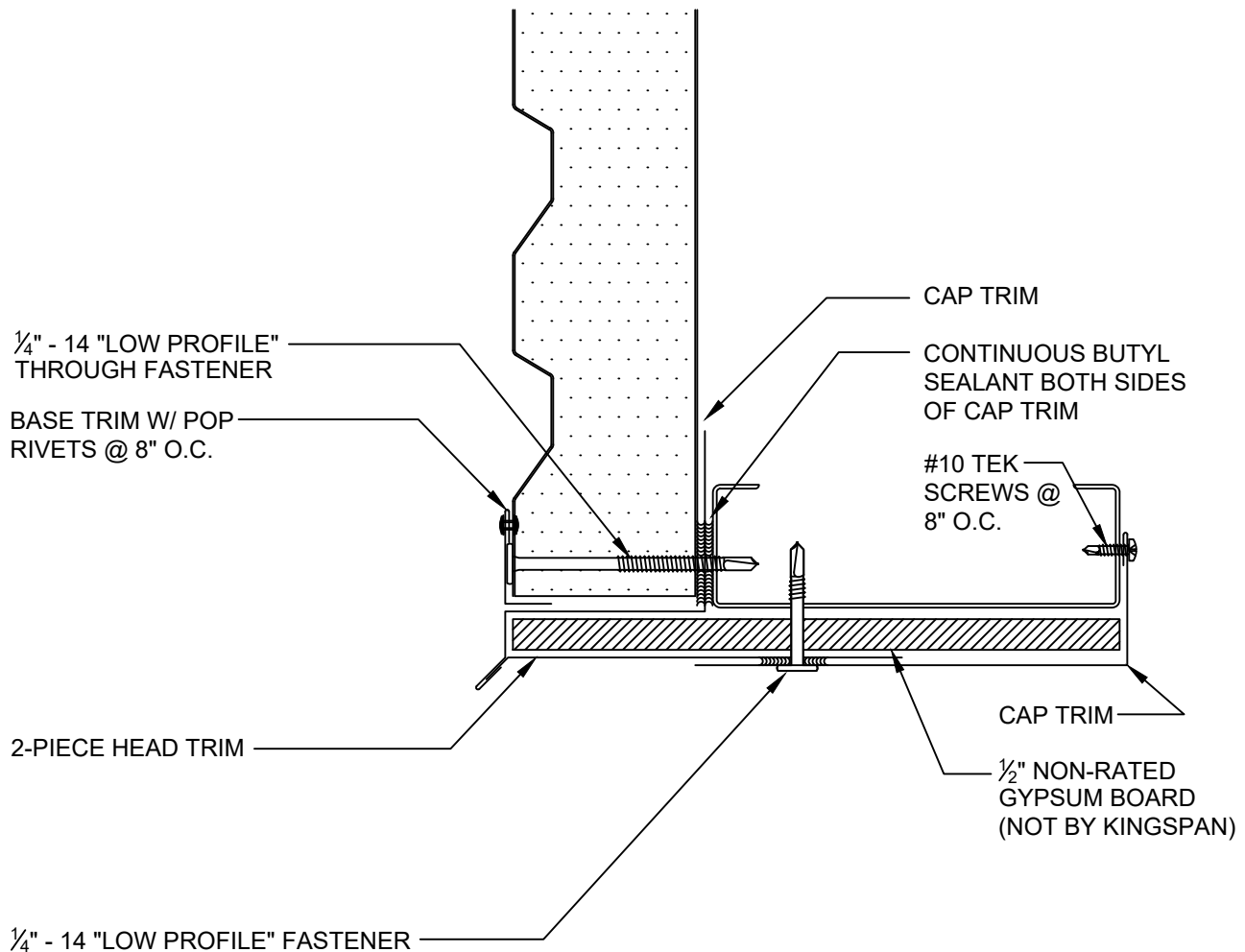
RELEASE: 2024

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REVISION	
REVISION #	DATE
0	05/18/23

OVERHEAD DOOR - HEAD
2 PIECE CAP TRIM

DETAIL #: CI-FO-05-VH

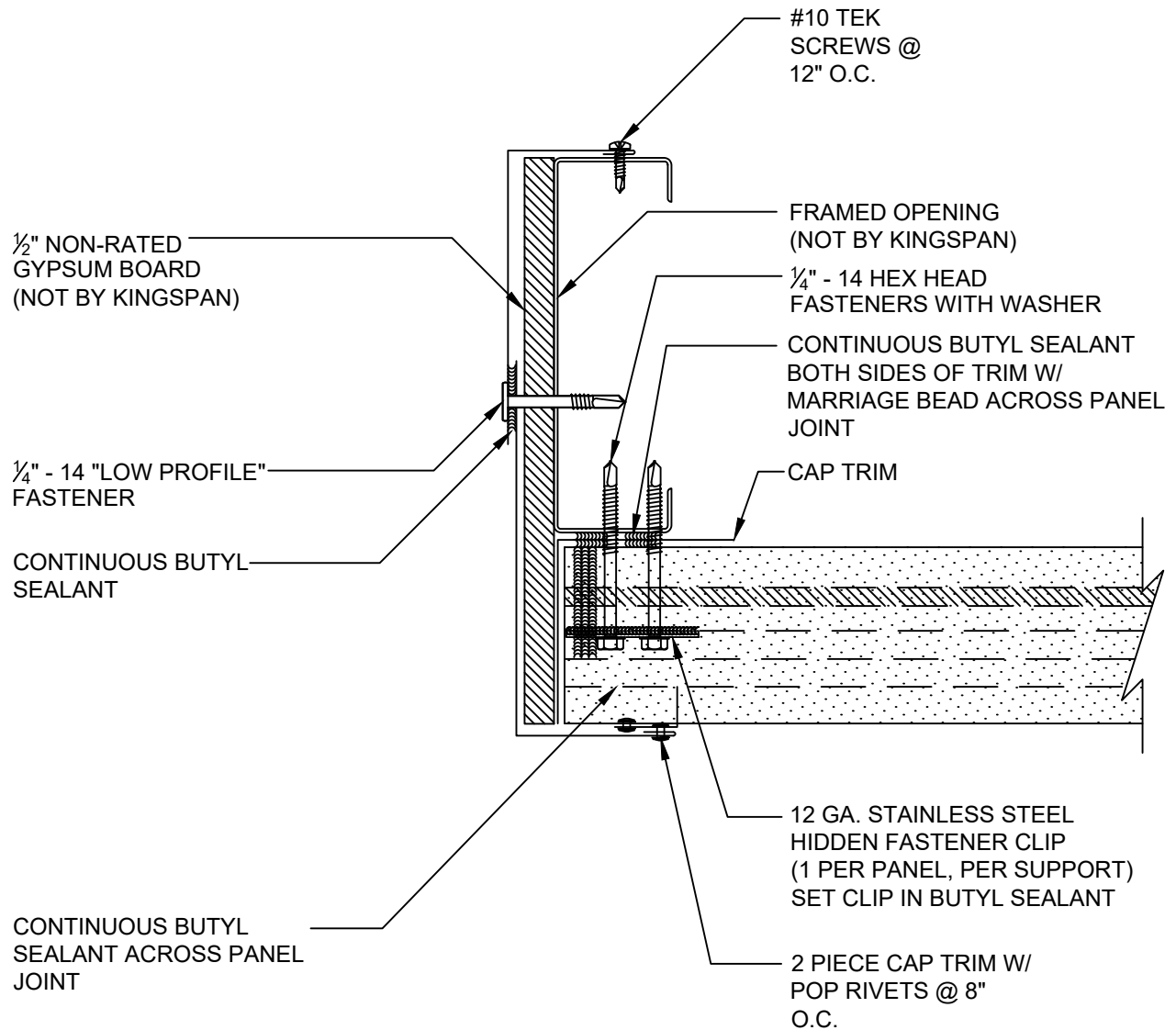
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REVISION	
REVISION #	DATE
0	05/18/23

OVERHEAD DOOR - JAMB
2-PIECE CAP TRIM

DETAIL #: CI-FO-06-VH

RELEASE: 2024

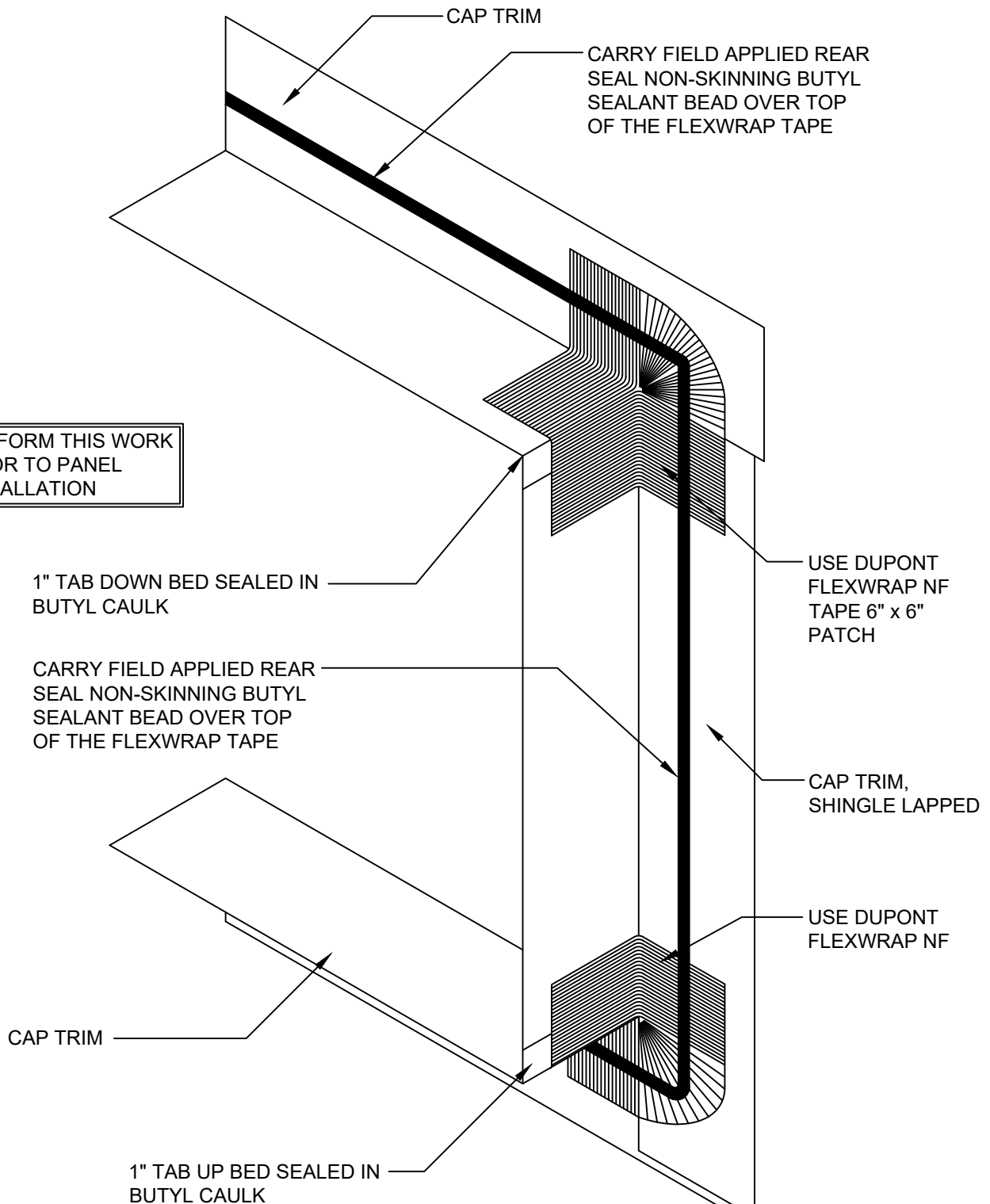
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PERFORM THIS WORK
PRIOR TO PANEL
INSTALLATION



REVISION	
REVISION #	DATE
0	05/18/23

FRAMED OPENING - TRIM
INSTALLATION

DETAIL #: CI-FO-07-VH

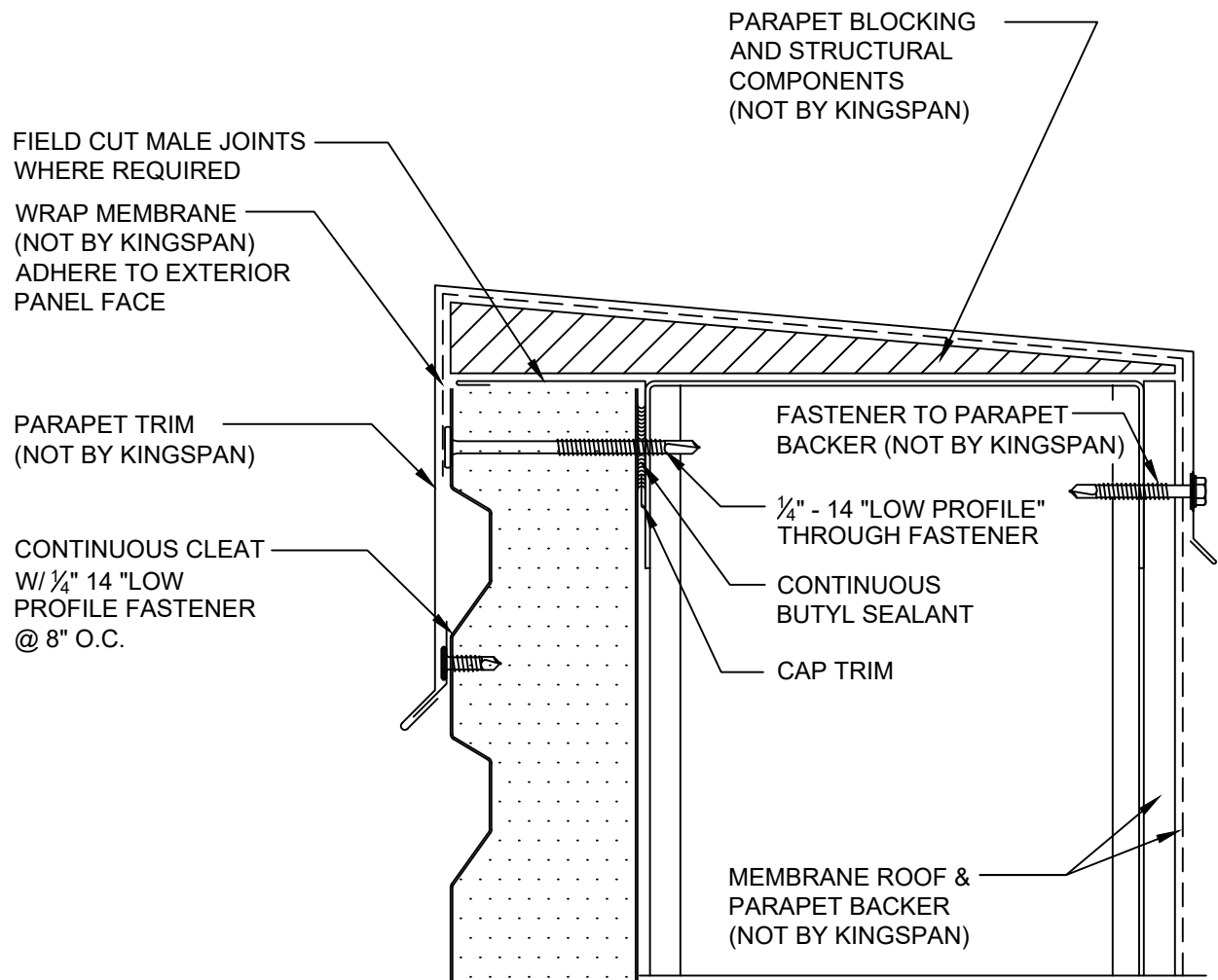
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REVISION	
REVISION #	DATE
0	05/18/23

PARAPET - FIELD CUT
PANEL -
FLUSH TRIM

DETAIL #: CI-PR-01-VH

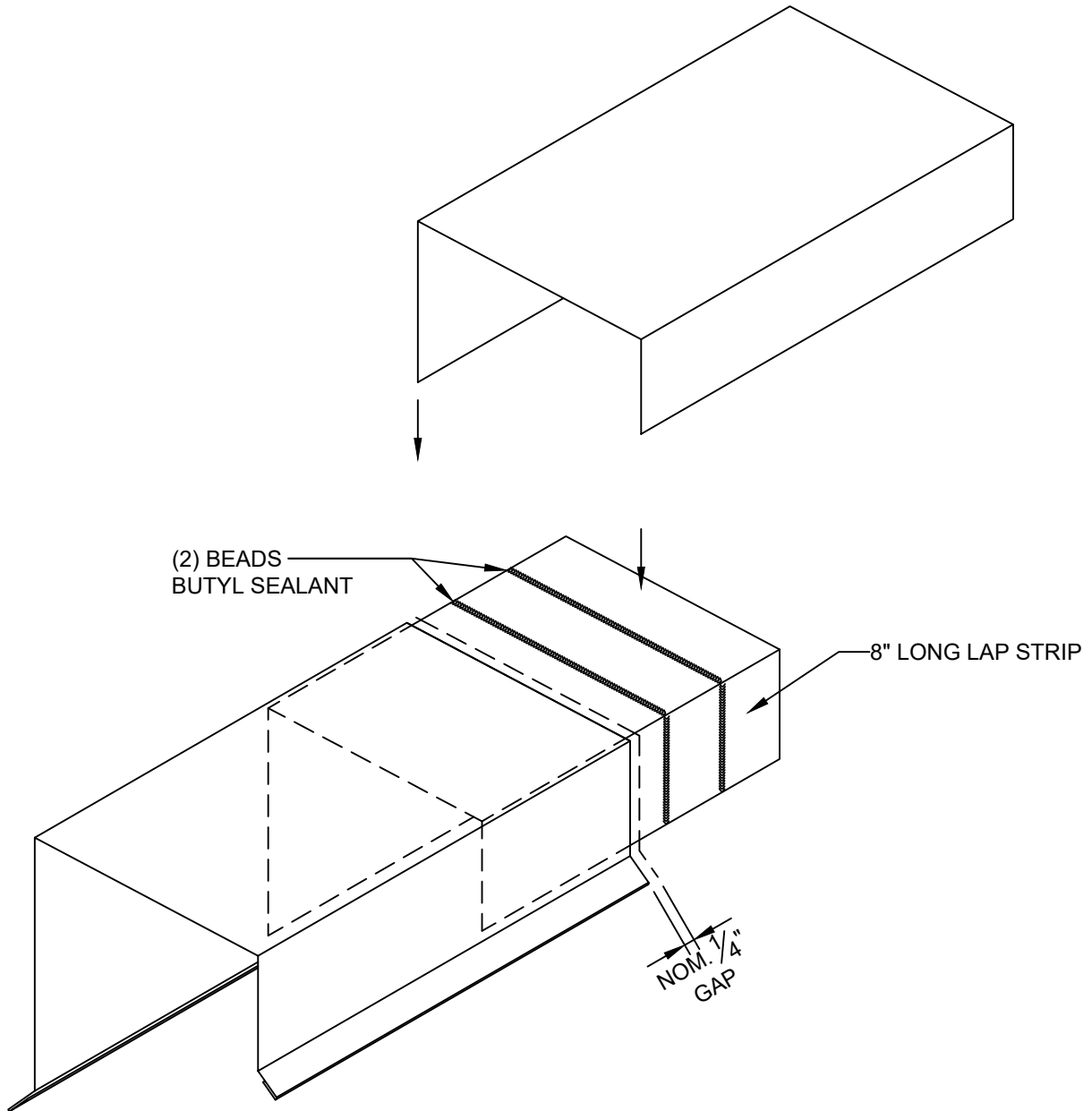
RELEASE: 2024

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REVISION	
REVISION #	DATE
0	05/18/23

PARAPET - LAP STRIP
INSTALLATION

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RELEASE: 2024

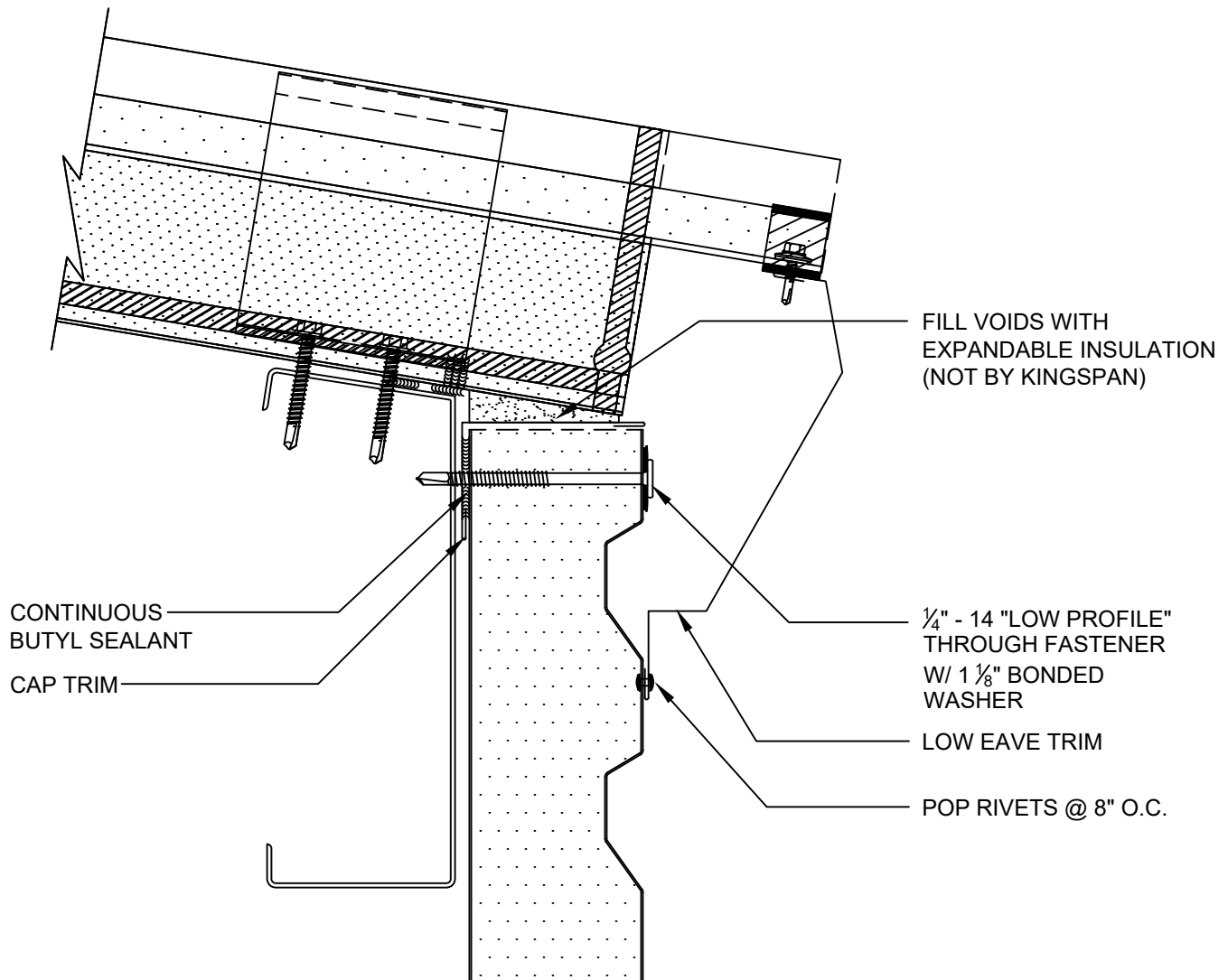
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SEE ROOF DETAILS FOR ROOF NOTES



REVISION	
REVISION #	DATE
0	05/18/23

WALL TO ROOF - LOW
EAVE NO GUTTER

DETAIL #: CI-WR-01-VH

RELEASE: 2024

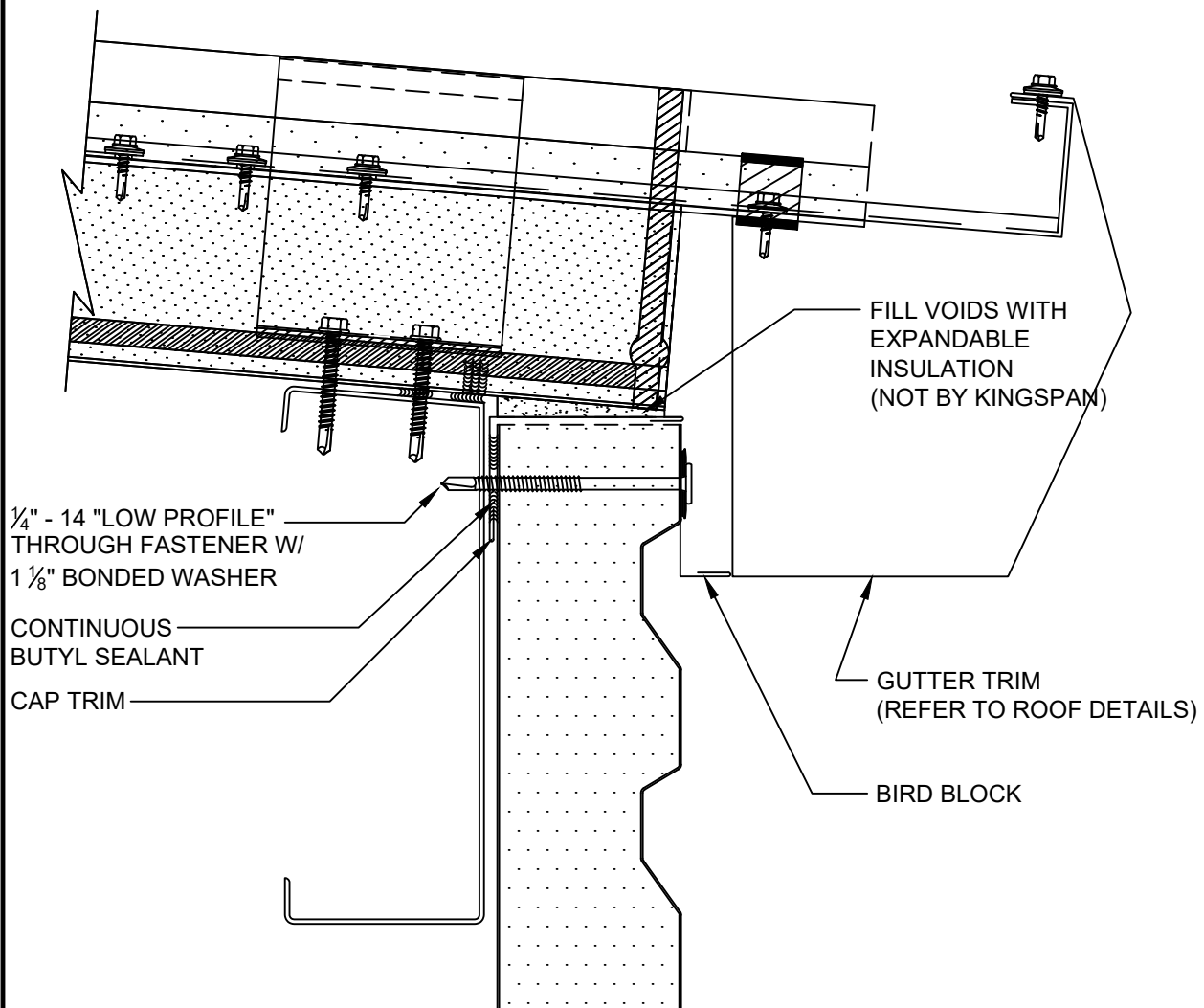
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SEE ROOF DETAILS FOR ROOF NOTES



REVISION	
REVISION #	DATE
0	05/18/23

WALL TO ROOF - LOW
EAVE W/ GUTTER

DETAIL #: CI-WR-02-VH

RELEASE: 2024

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SEE ROOF DETAILS FOR ROOF NOTES

HIGH EAVE TRIM

FILL VOIDS WITH
EXPANDABLE
INSULATION
(NOT BY
KINGSPAN)

POP RIVETS @ 8" O.C.

$\frac{1}{4}$ " - 14 "LOW PROFILE"
THROUGH FASTENER W/
1 $\frac{1}{8}$ " BONDED WASHER

CONTINUOUS
BUTYL SEALANT

CAP TRIM

REVISION

REVISION #	DATE
0	05/18/23

WALL TO ROOF - HIGH
EAVE

DETAIL #: CI-WR-03-VH

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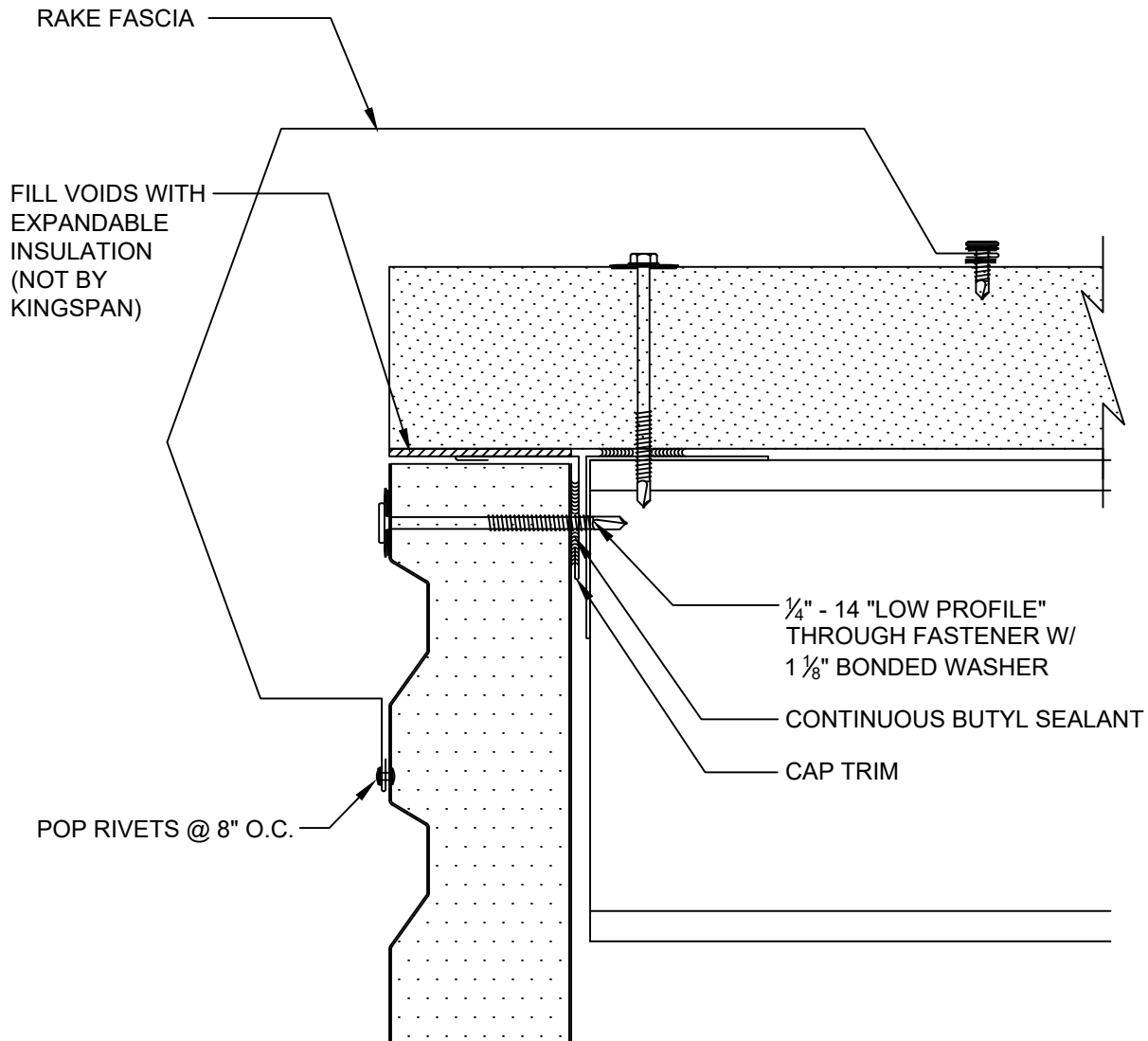
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SEE ROOF DETAILS FOR ROOF NOTES



REVISION	
REVISION #	DATE
0	05/18/23

WALL TO ROOF - RAKE

DETAIL #: CI-WR-04-VH

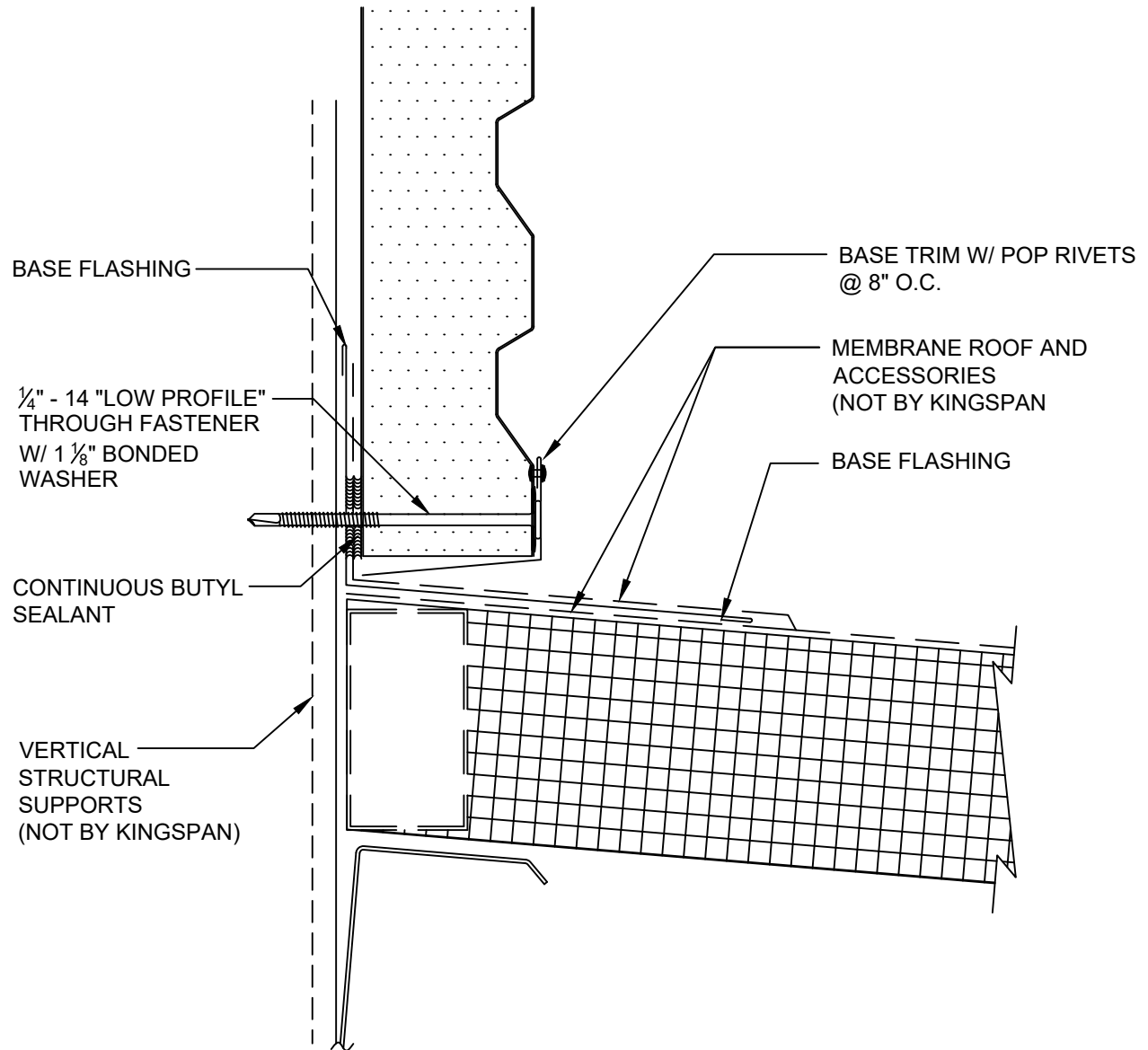
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REVISION	
REVISION #	DATE
0	05/18/23

WALL ABOVE TO BUILT UP
ROOF / CANOPY

DETAIL #: CI-WR-05-VH

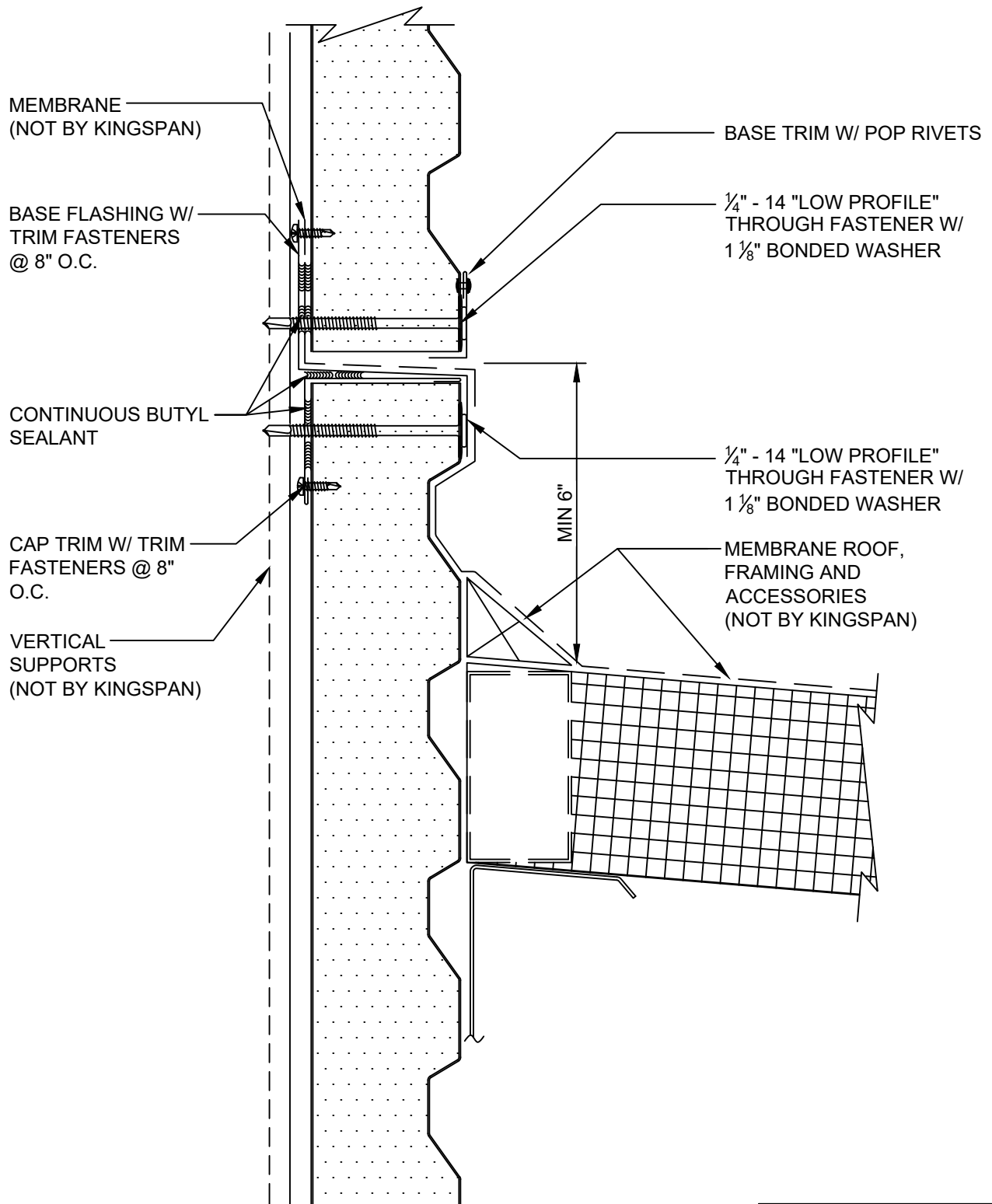
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REVISION	
REVISION #	DATE
0	05/18/23

CONTINUOUS WALL TO
BUILT UP ROOF / CANOPY

DETAIL #: CI-WR-06-VH

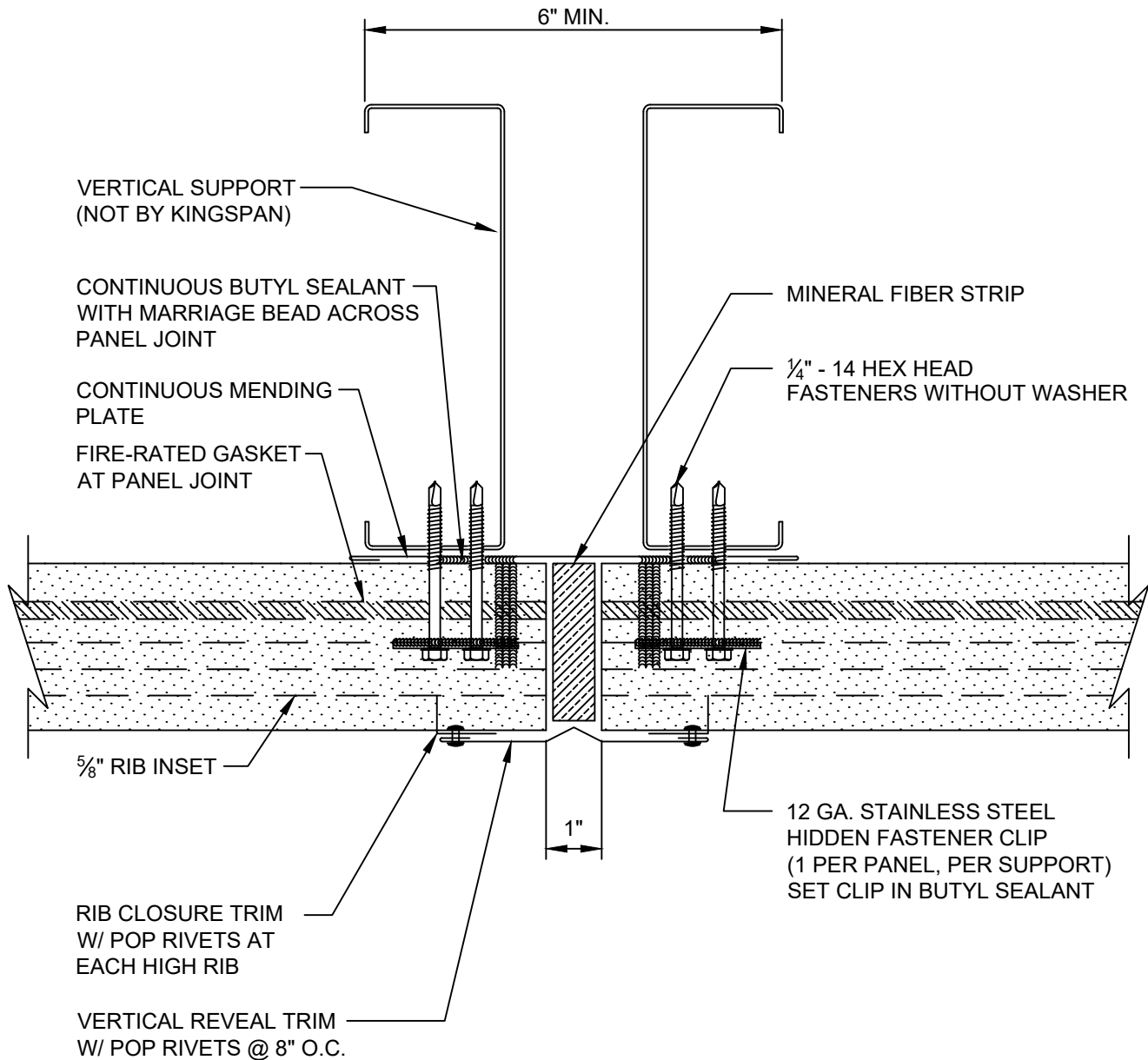
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NOTE: SEE INSTALLATION
SEQUENCE AT BASE CONDITION
CI-VJ-07 THROUGH CI-VJ-13

REVISION	
REVISION #	DATE
0	05/18/23

VERTICAL JOINT W/ 1-PC
TOP HAT TRIM

DETAIL #: CI-VJ-01-VH

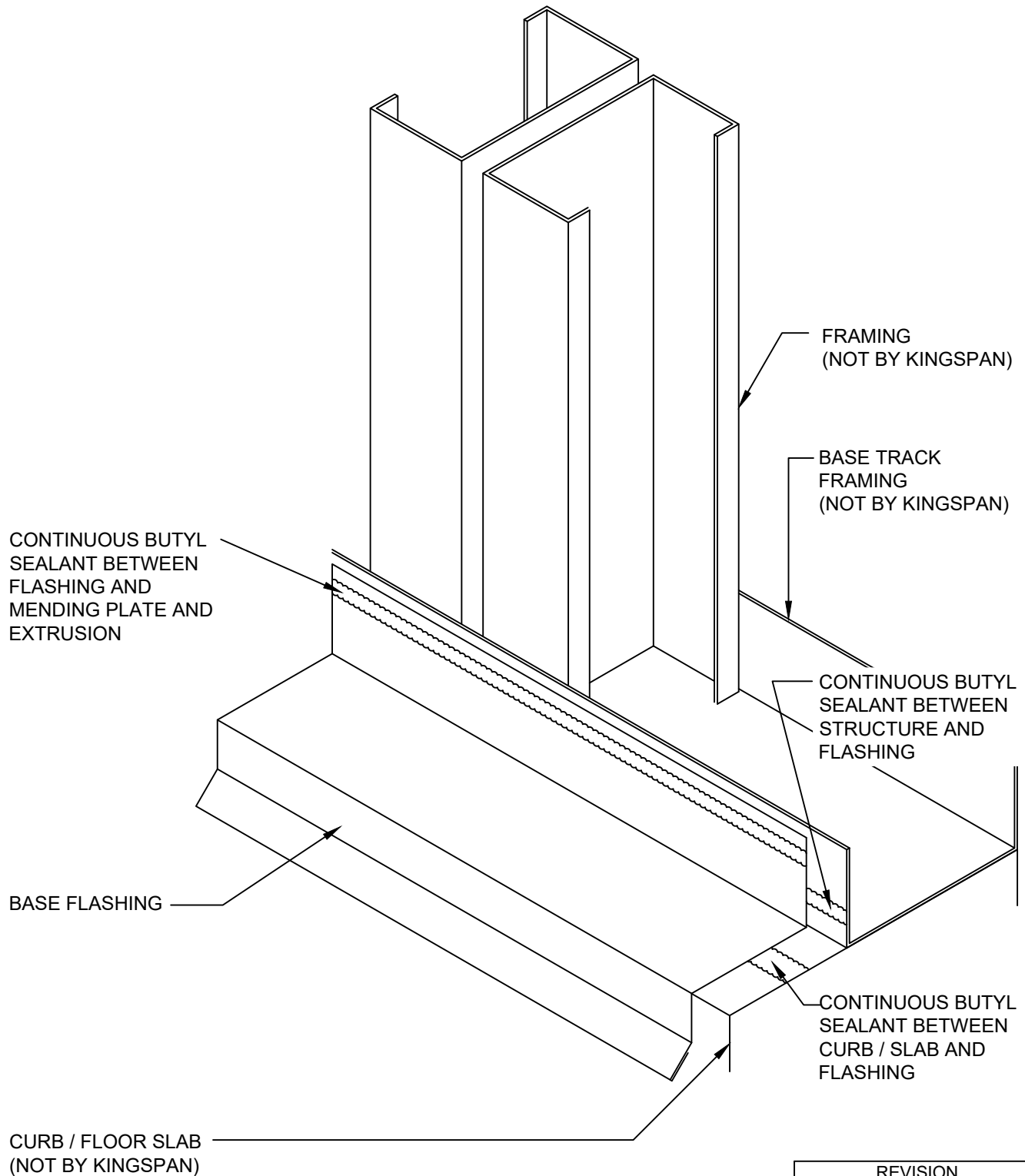
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



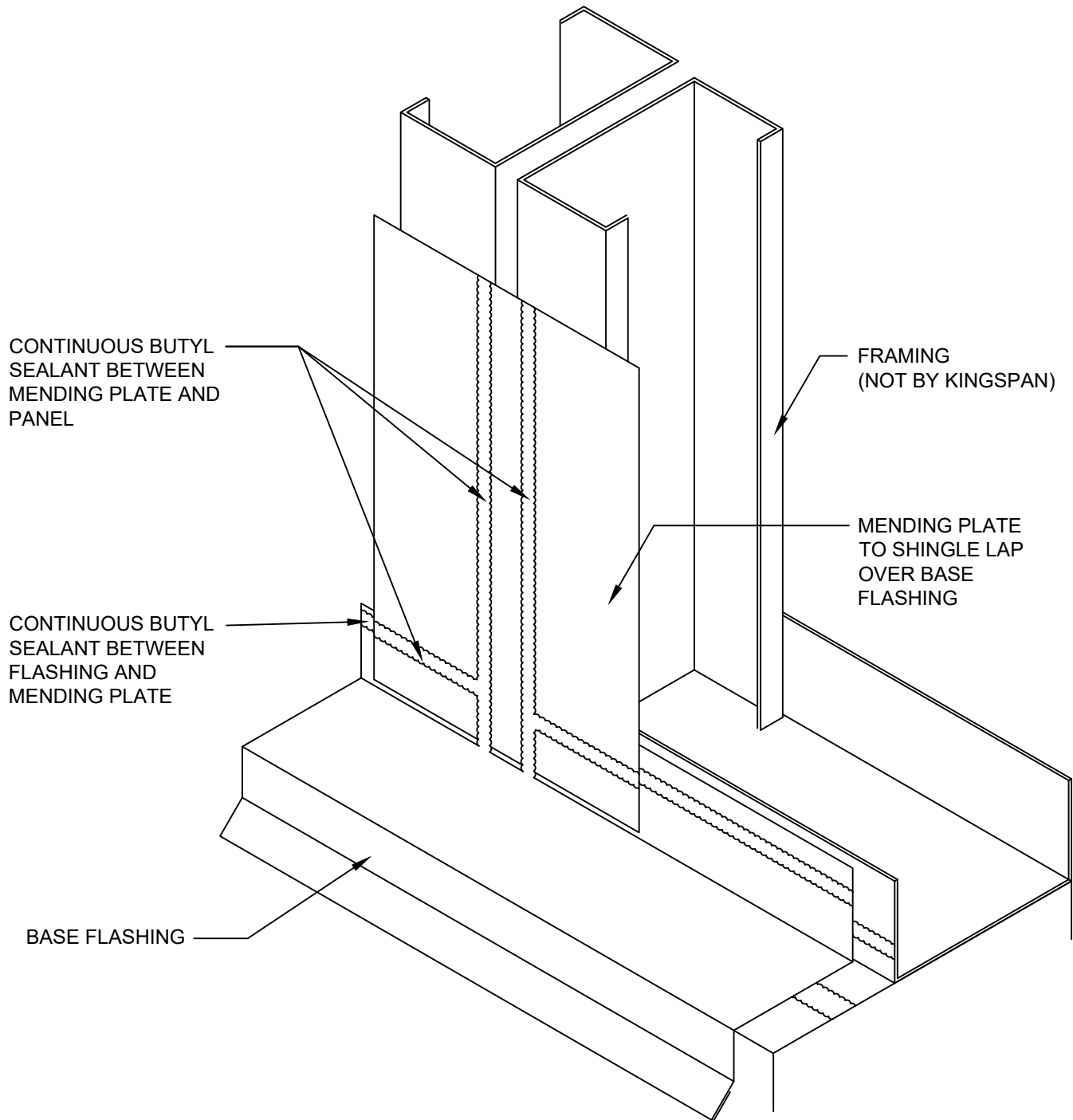
REVISION	
REVISION #	DATE
1	5/30/24

VERTICAL JOINT
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-02-VH
RELEASE: 2024
REGION: NORTH AMERICA
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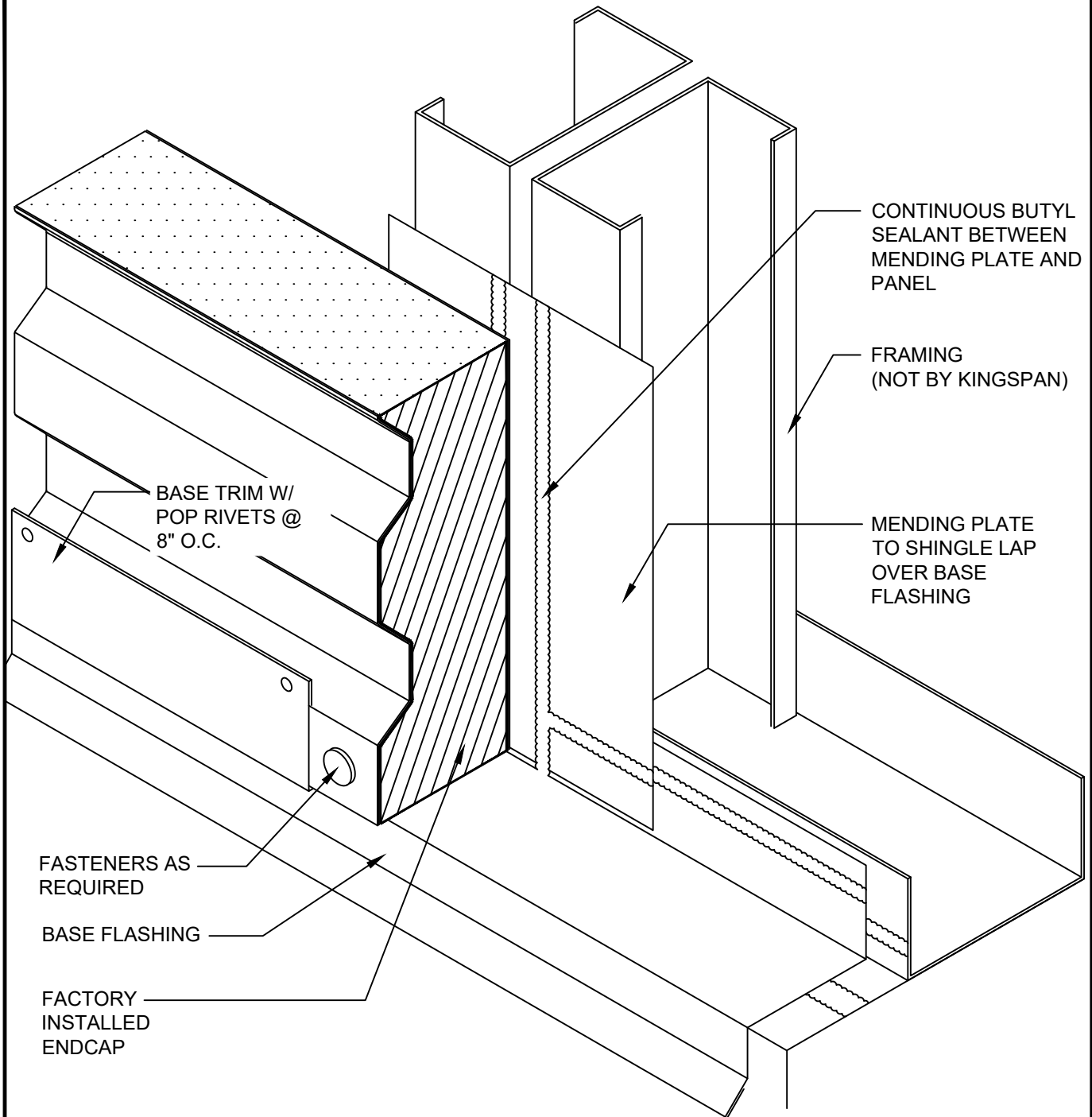
REVISION	
REVISION #	DATE
1	5/30/24

VERTICAL JOINT
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-03-VH
RELEASE: 2024
REGION: NORTH AMERICA
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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
1	5/30/24

VERTICAL JOINT
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-04-VH

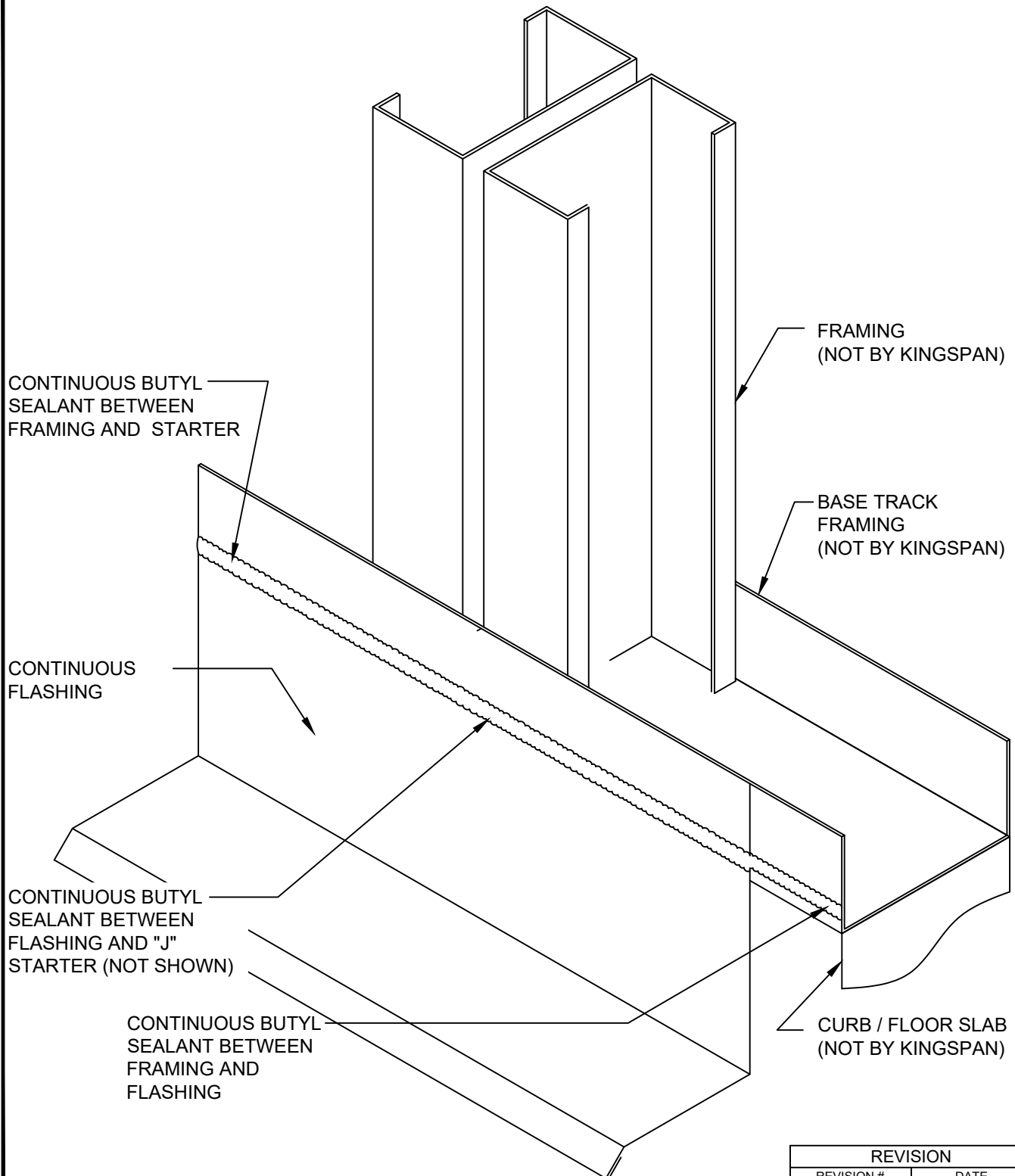
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
1	5/30/24

VERTICAL JOINT
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-05-VH

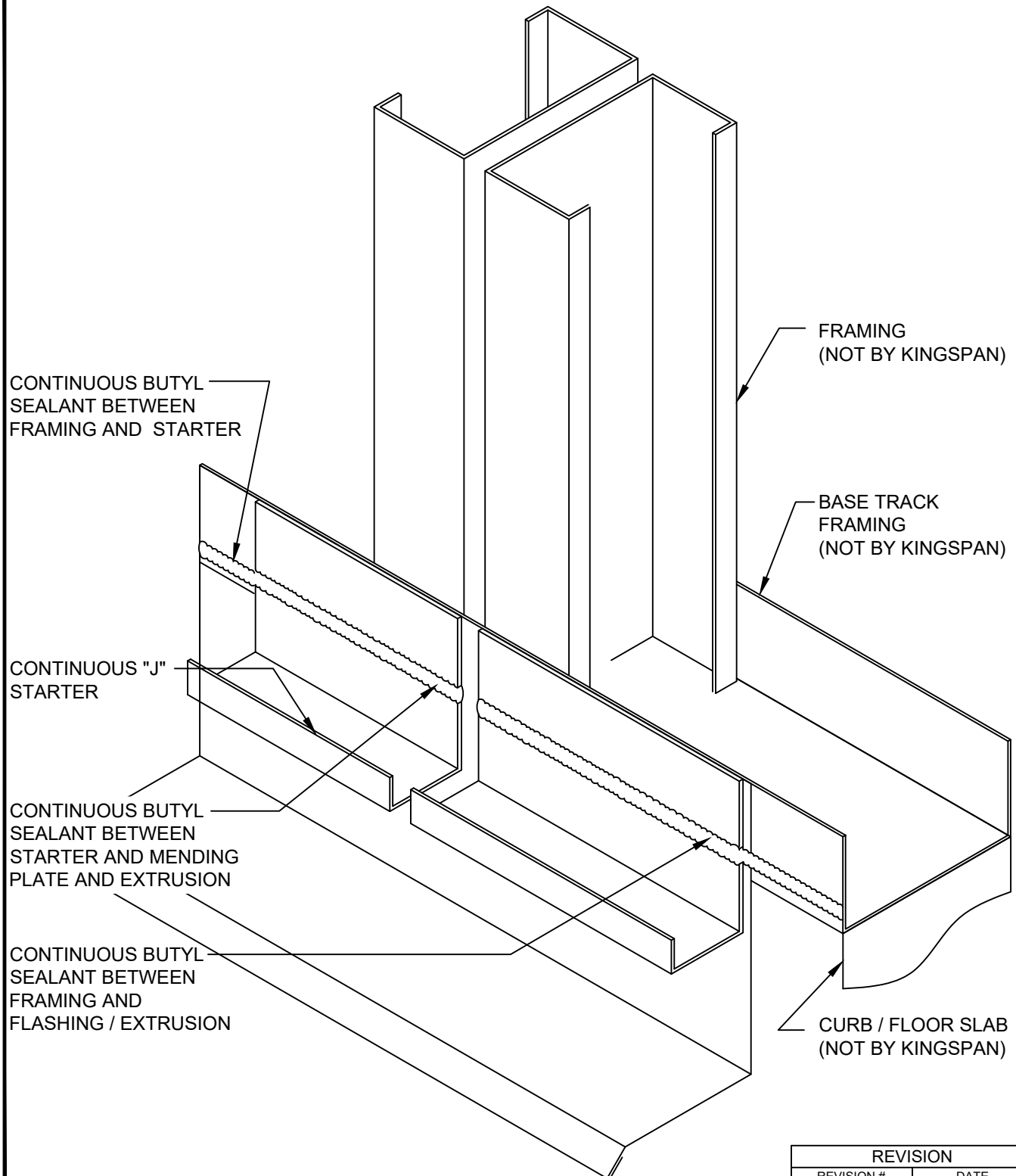
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
1	5/30/24

VERTICAL JOINT
INSTALLATION SEQUENCE

DETAIL #: CI-VJ-06-VH

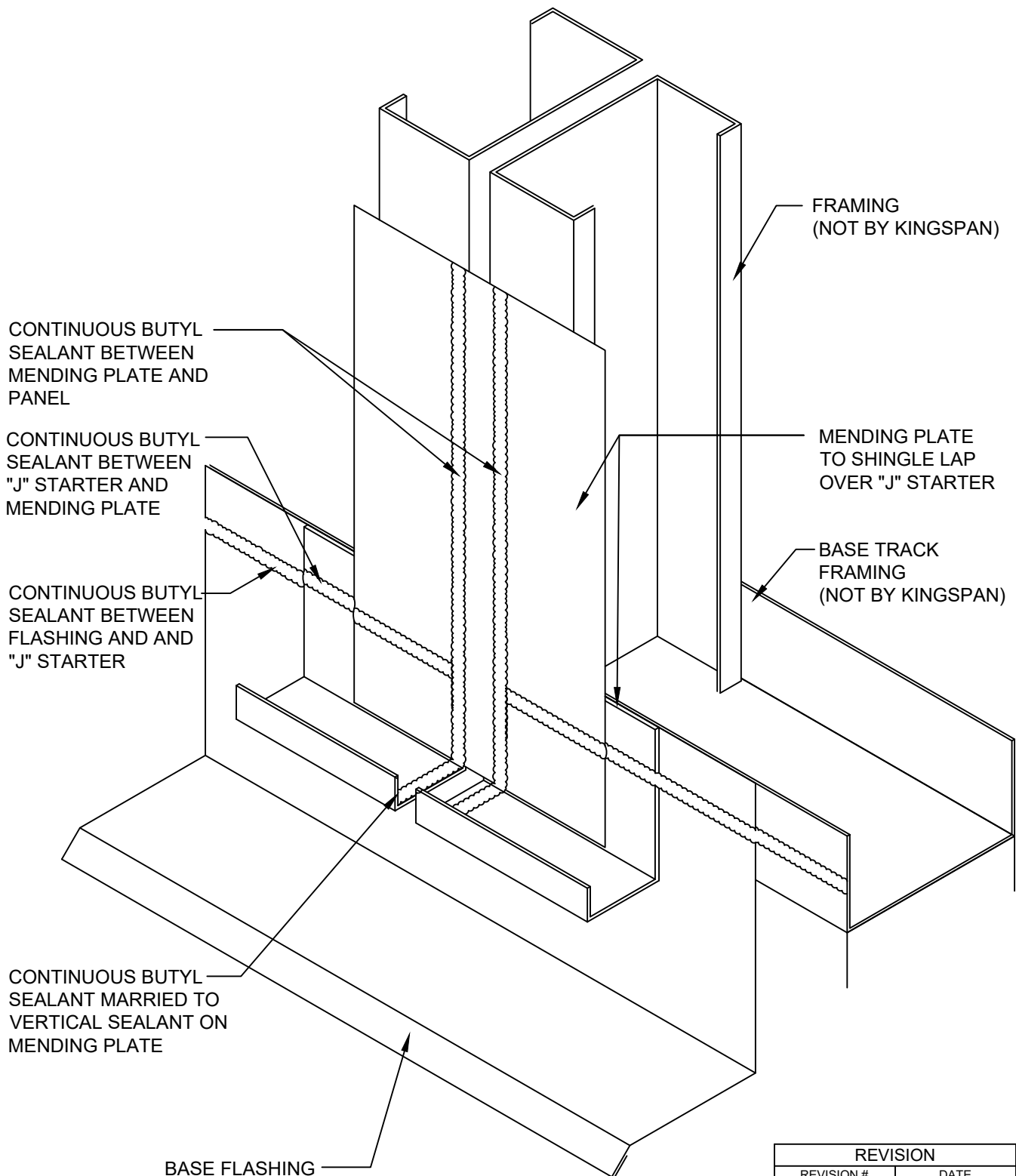
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
1	5/30/24

VERTICAL JOINT W/ "J"
STARTER
INSTALLATION

DETAIL #: CI-VJ-07-VH

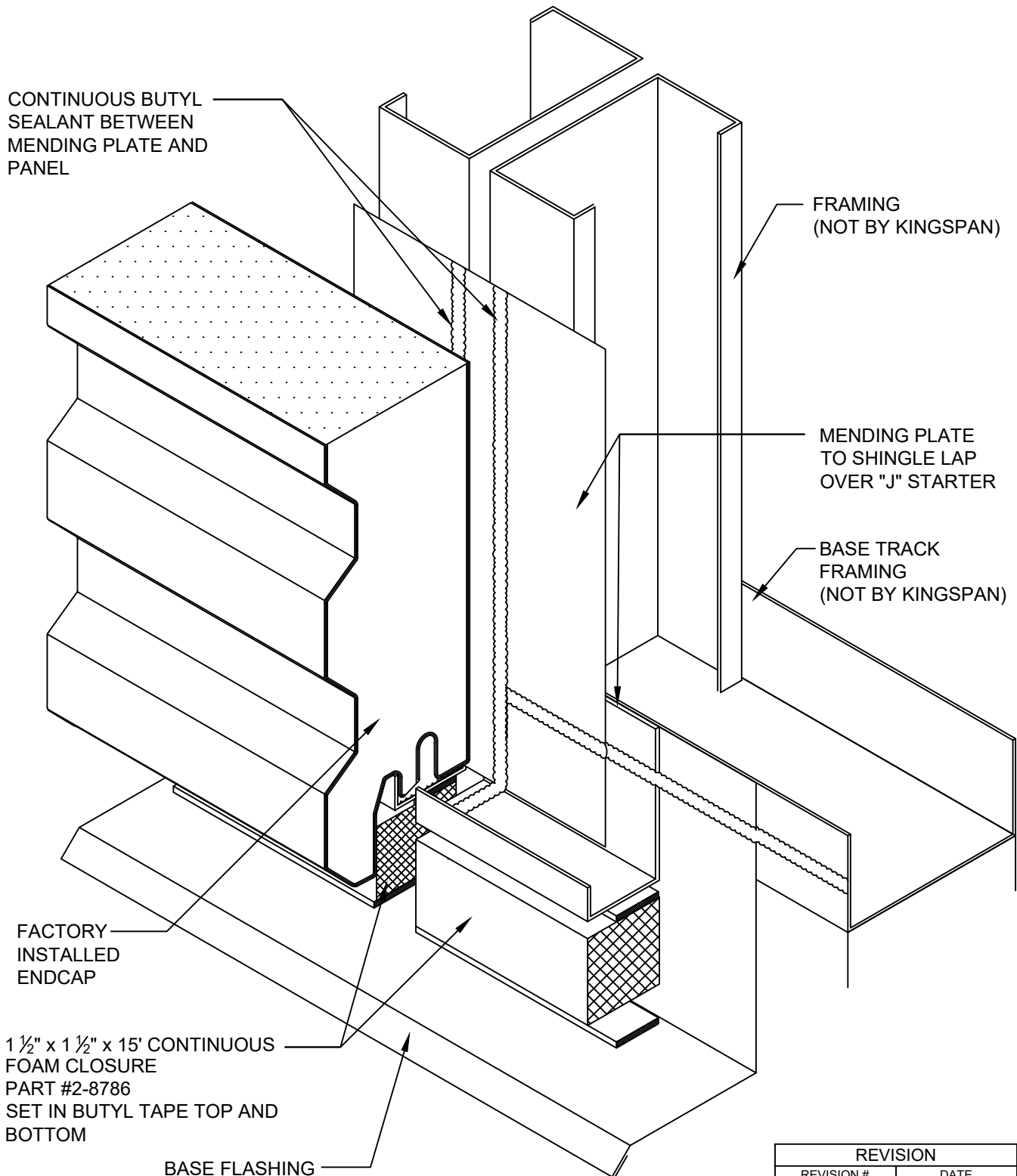
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
1	5/30/24

VERTICAL JOINT W/ "J"
STARTER
INSTALLATION

DETAIL #: CI-VJ-08-VH

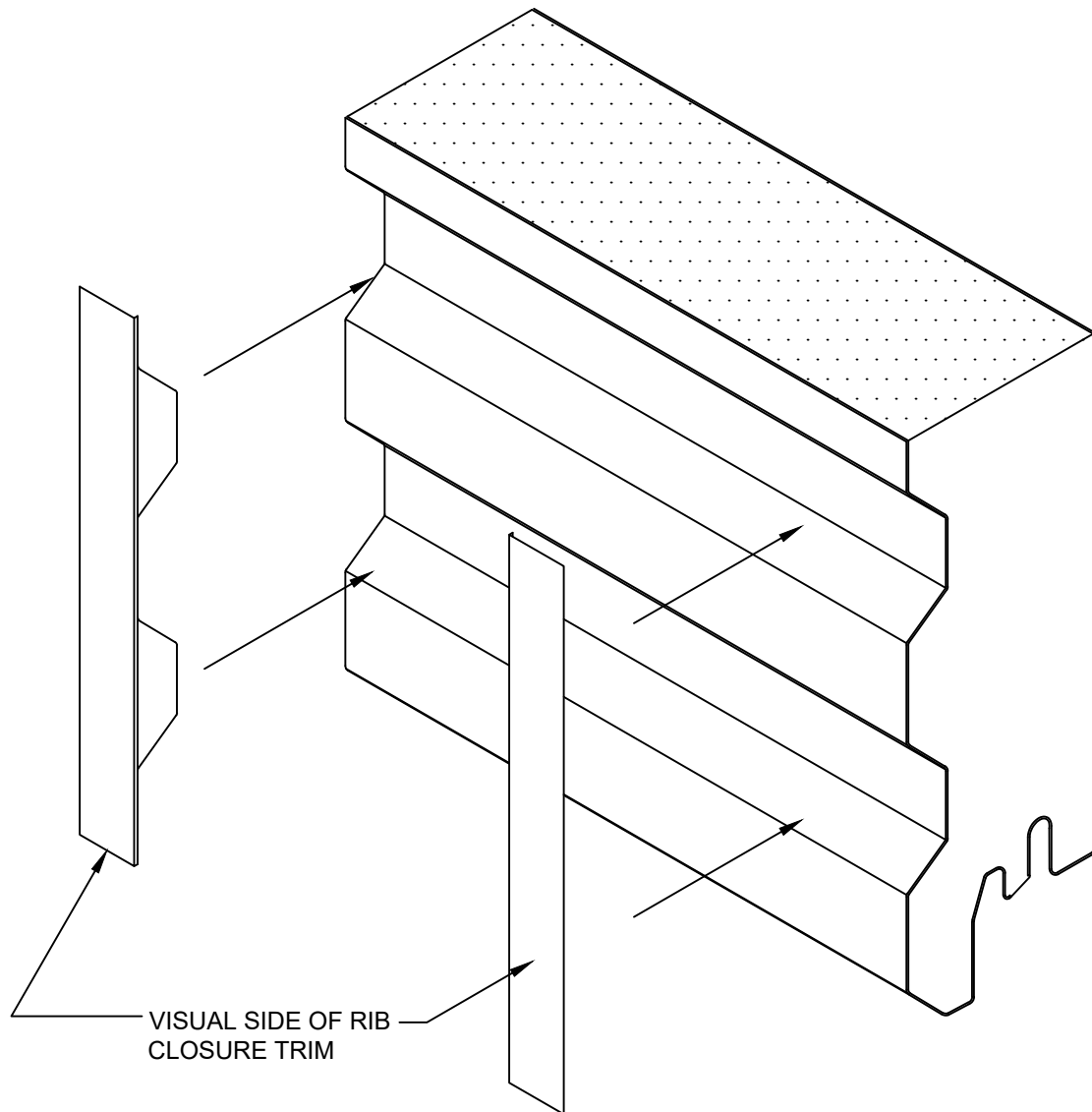
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

METAL CLOSURE
INSTALLATION

DETAIL #: CI-CL-01-VH

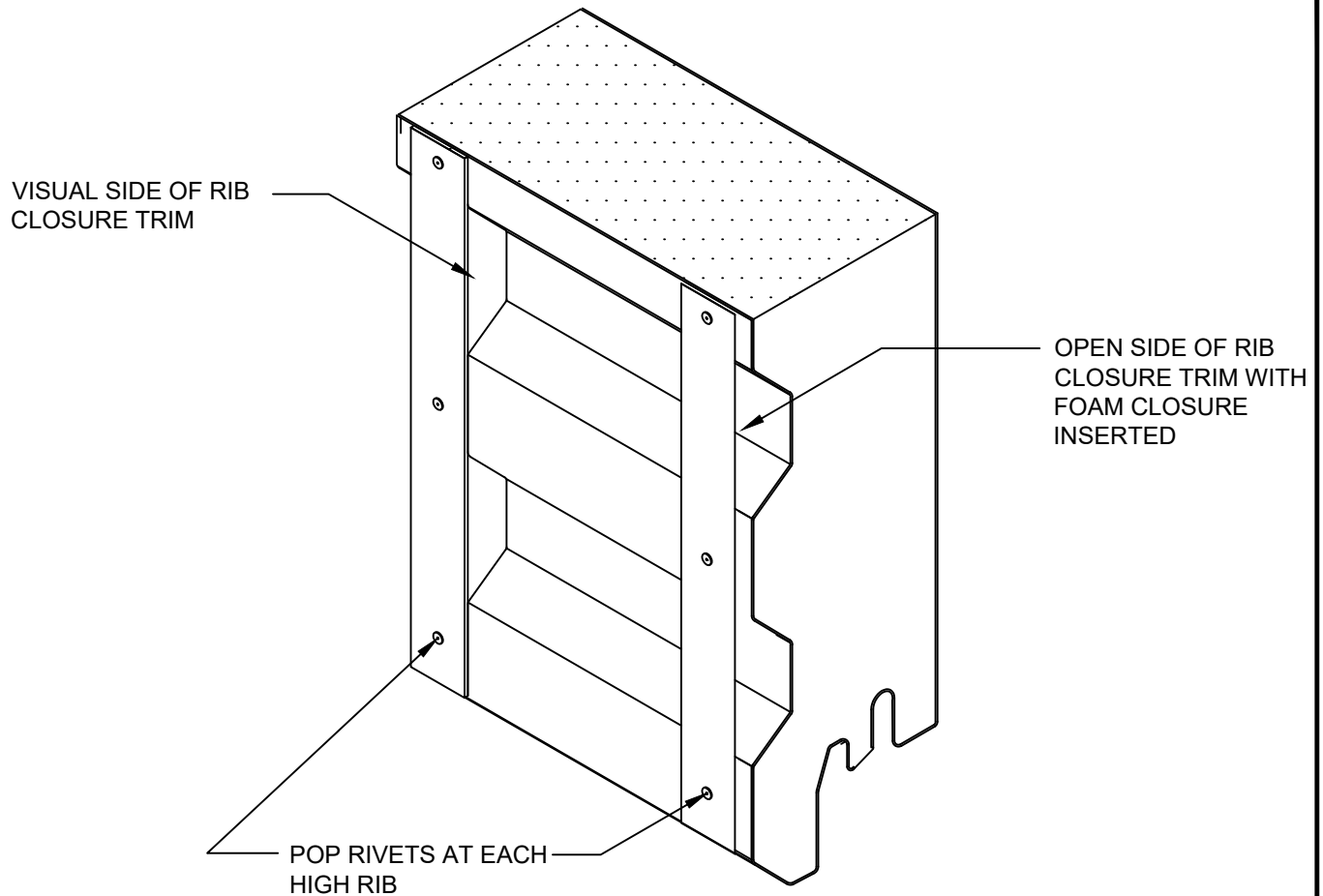
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

METAL CLOSURE
INSTALLATION

DETAIL #: CI-CL-03-VH

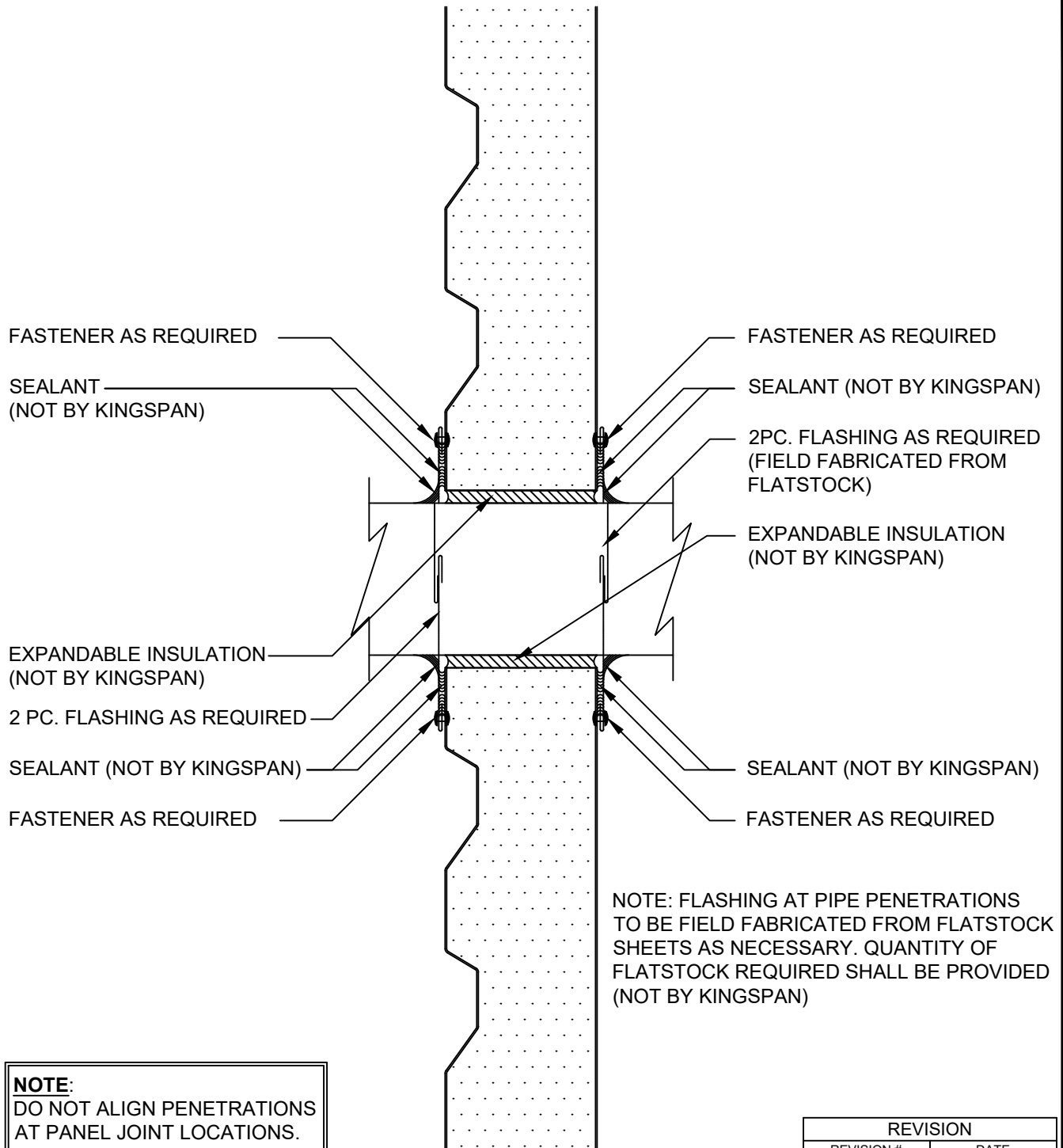
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

PIPE PENETRATION SECTION

DETAIL #: CI-PE-01-VH

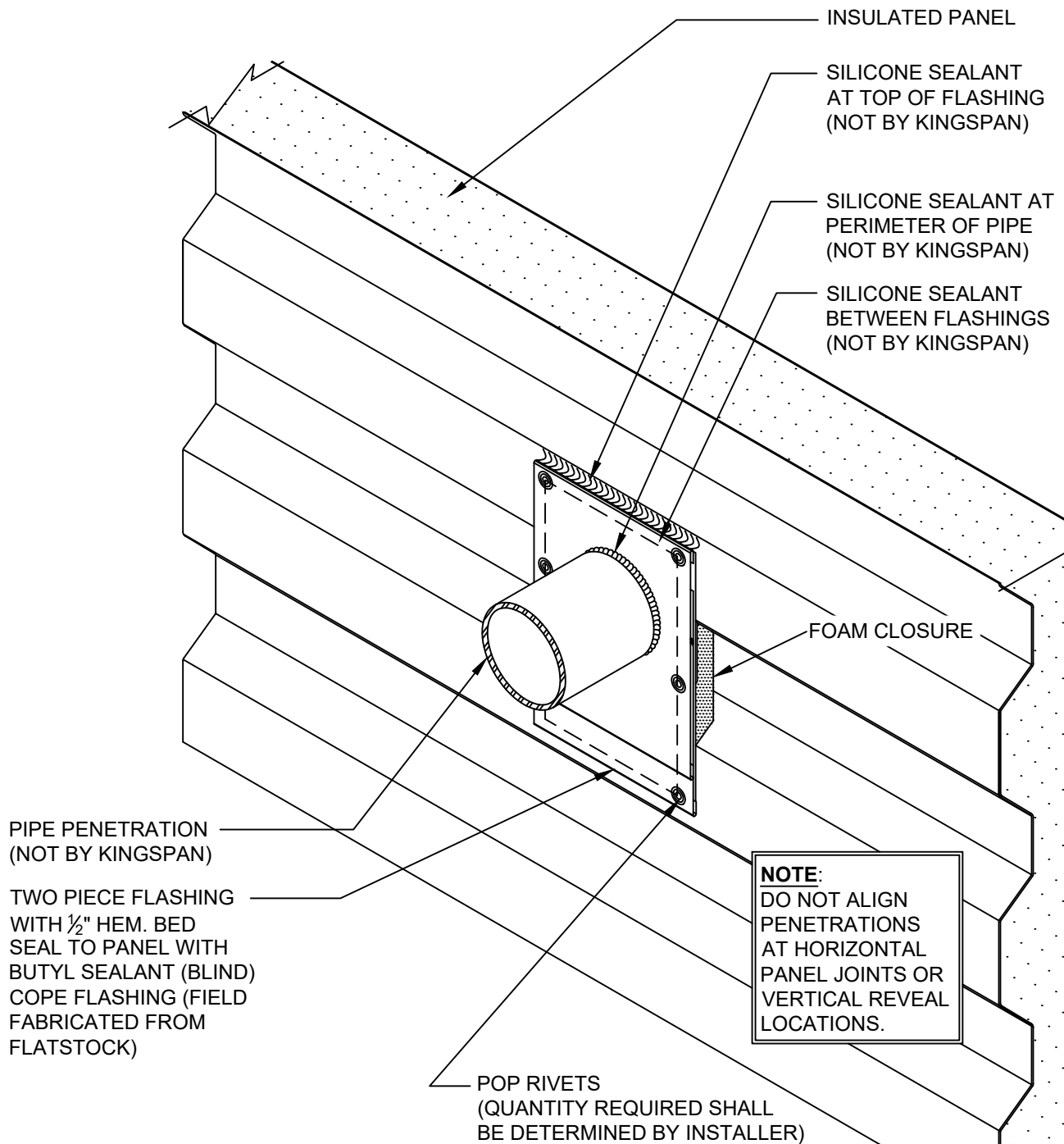
RELEASE: 2024

REGION: NORTH AMERICA

www.kingspanpanels.com



VALE - HORIZONTAL INSTALL



NOTE:
DO NOT ALIGN
PENETRATIONS
AT HORIZONTAL
PANEL JOINTS OR
VERTICAL REVEAL
LOCATIONS.

POP RIVETS
(QUANTITY REQUIRED SHALL
BE DETERMINED BY INSTALLER)

NOTE: FLASHING AT PENETRATIONS
TO BE FIELD FABRICATED FROM FLATSTOCK
SHEETS AS NECESSARY. QUANTITY OF
FLATSTOCK REQUIRED SHALL BE DETERMINED BY INSTALLER
(NOT BY KINGSPAN)

NOTE:
THIS DETAIL ASSUMES
PENETRATION OCCURS
AFTER PANEL IS INSTALLED

REVISION	
REVISION #	DATE
0	05/18/23

PIPE PENETRATION
ISOMETRIC

DETAIL #: CI-PE-02-VH
RELEASE: 2024
REGION: NORTH AMERICA
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VALE - HORIZONTAL INSTALL

INSULATED PANEL

RIB CLOSURE WITH SILICONE SEALANT AROUND PERIMETER

SILICONE SEALANT AT TOP OF FLASHING (NOT BY KINGSPAN)

TWO PIECE FLASHING WITH $\frac{1}{2}$ " HEM. BED SEAL TO PANEL WITH BUTYL SEALANT (BLIND) COPE FLASHING (NOT BY KINGSPAN)

SILICONE SEALANT BETWEEN FLASHINGS (NOT BY KINGSPAN)

KNIFE PENETRATION (NOT BY KINGSPAN)

SILICONE SEALANT AT PERIMETER OF KNIFE (NOT BY KINGSPAN)

NOTE: FLASHING AT PENETRATIONS TO BE FIELD FABRICATED FROM FLATSTOCK SHEETS AS NECESSARY. QUANTITY OF FLATSTOCK REQUIRED SHALL BE DETERMINED BY INSTALLER (NOT BY KINGSPAN)

POP RIVETS (QUANTITY REQUIRED SHALL BE DETERMINED BY INSTALLER)

NOTE: DO NOT ALIGN PENETRATIONS AT HORIZONTAL PANEL JOINTS OR VERTICAL REVEAL LOCATIONS.

INSULATED PANEL

SILICONE SEALANT AT TOP OF FLASHING (NOT BY KINGSPAN)

POP RIVETS

KNIFE PENETRATION

SILICONE SEALANT AT PERIMETER OF KNIFE (NOT BY KINGSPAN)

FILL VOID WITH F.I.P INSULATION (NOT BY KINGSPAN)

NOTE: THIS DETAIL ASSUMES PENETRATION OCCURS AFTER PANEL IS INSTALLED

REVISION

REVISION #	DATE
0	05/18/23

KNIFE PLATE DETAIL

DETAIL #: CI-PE-03-VH

RELEASE: 2024

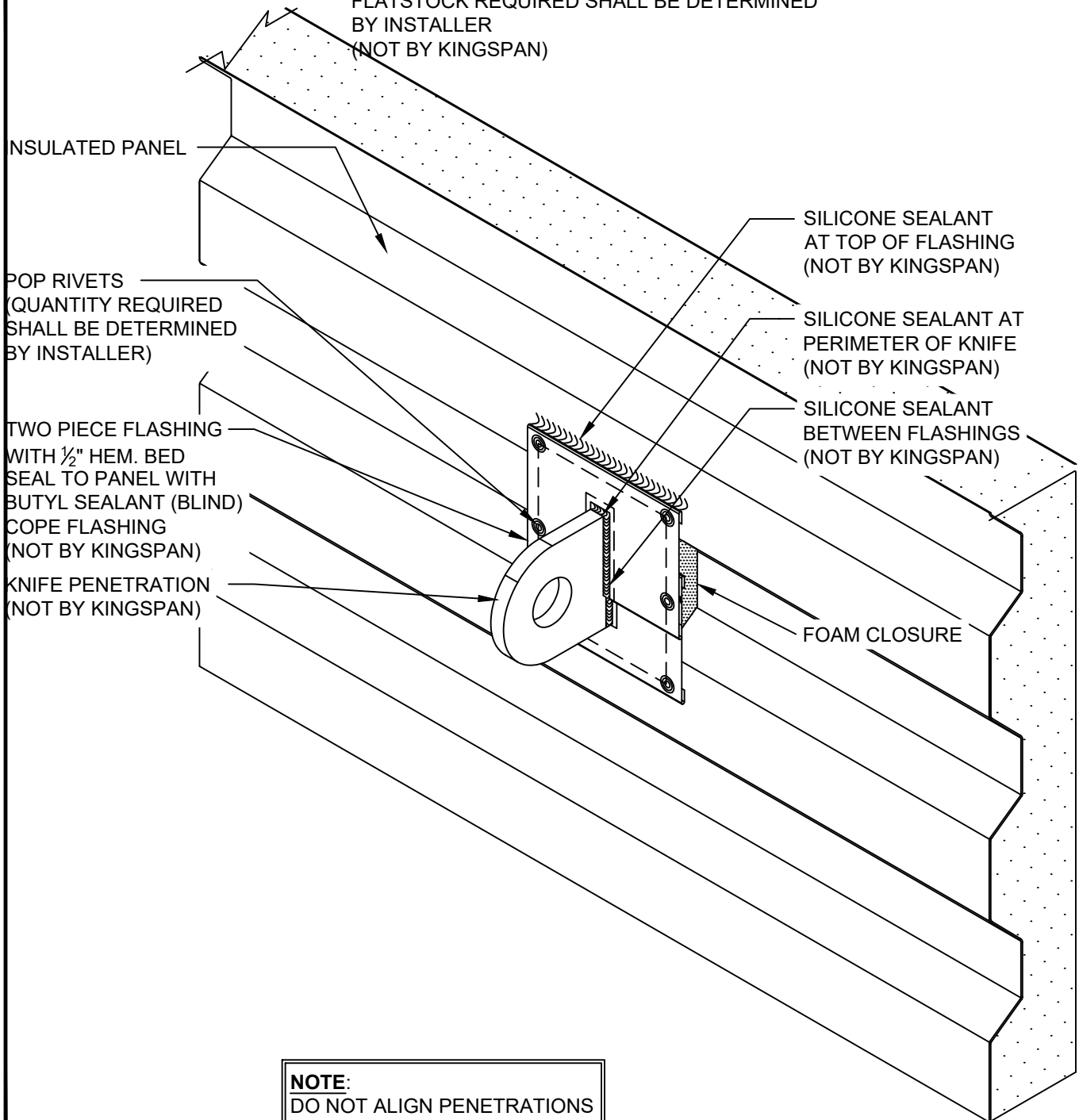
REGION: NORTH AMERICA

www.kingspanpanels.com



VALE - HORIZONTAL INSTALL

NOTE: FLASHING AT PENETRATIONS
TO BE FIELD FABRICATED FROM FLATSTOCK
SHEETS AS NECESSARY. QUANTITY OF
FLATSTOCK REQUIRED SHALL BE DETERMINED
BY INSTALLER
(NOT BY KINGSPAN)



NOTE:
DO NOT ALIGN PENETRATIONS
AT PANEL JOINT LOCATIONS.

REVISION	
REVISION #	DATE
0	05/18/23

KNIFE PLATE ISOMETRIC

DETAIL #: CI-PE-04-VH

RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL

INSULATED PANEL

NOTE: FLASHING AT PENETRATIONS TO BE FIELD FABRICATED FROM FLATSTOCK SHEETS AS NECESSARY. QUANTITY OF FLATSTOCK REQUIRED SHALL BE DETERMINED BY INSTALLER (NOT BY KINGSPAN)

SILICONE SEALANT AT TOP OF FLASHING (NOT BY KINGSPAN)

SILICONE SEALANT BETWEEN FLASHINGS (NOT BY KINGSPAN)

TWO PIECE FLASHING WITH $\frac{1}{2}$ " HEM. BED SEAL TO PANEL WITH BUTYL SEALANT (BLIND) COPE FLASHING (NOT BY KINGSPAN)

POP RIVETS (QUANTITY REQUIRED SHALL BE DETERMINED BY INSTALLER)

BEAM PENETRATION (NOT BY KINGSPAN)

SILICONE SEALANT AT PERIMETER OF BEAM (NOT BY KINGSPAN)

FILL CORRUGATIONS WITH SILICONE SEALANT (TYP) (NOT BY KINGSPAN)

REINFORCING ANGLES BEHIND FLASHING ATTACHED TO WEB OF BEAM (NOT BY KINGSPAN)

NOTE: DO NOT ALIGN PENETRATIONS AT HORIZONTAL PANEL JOINTS OR VERTICAL REVEAL LOCATIONS.

INSULATED PANEL

SILICONE SEALANT AT TOP OF FLASHING (NOT BY KINGSPAN)

BEAM PENETRATION

SILICONE SEALANT AT PERIMETER OF BEAM (NOT BY KINGSPAN)

FILL VOID WITH F.I.P INSULATION (NOT BY KINGSPAN)

REINFORCING ANGLES BEHIND FLASHING ATTACHED TO WEB OF BEAM (NOT BY KINGSPAN)

POP RIVETS

REVISION	
REVISION #	DATE
0	05/18/23

BEAM PENETRATION DETAIL

DETAIL #: CI-PE-05-VH

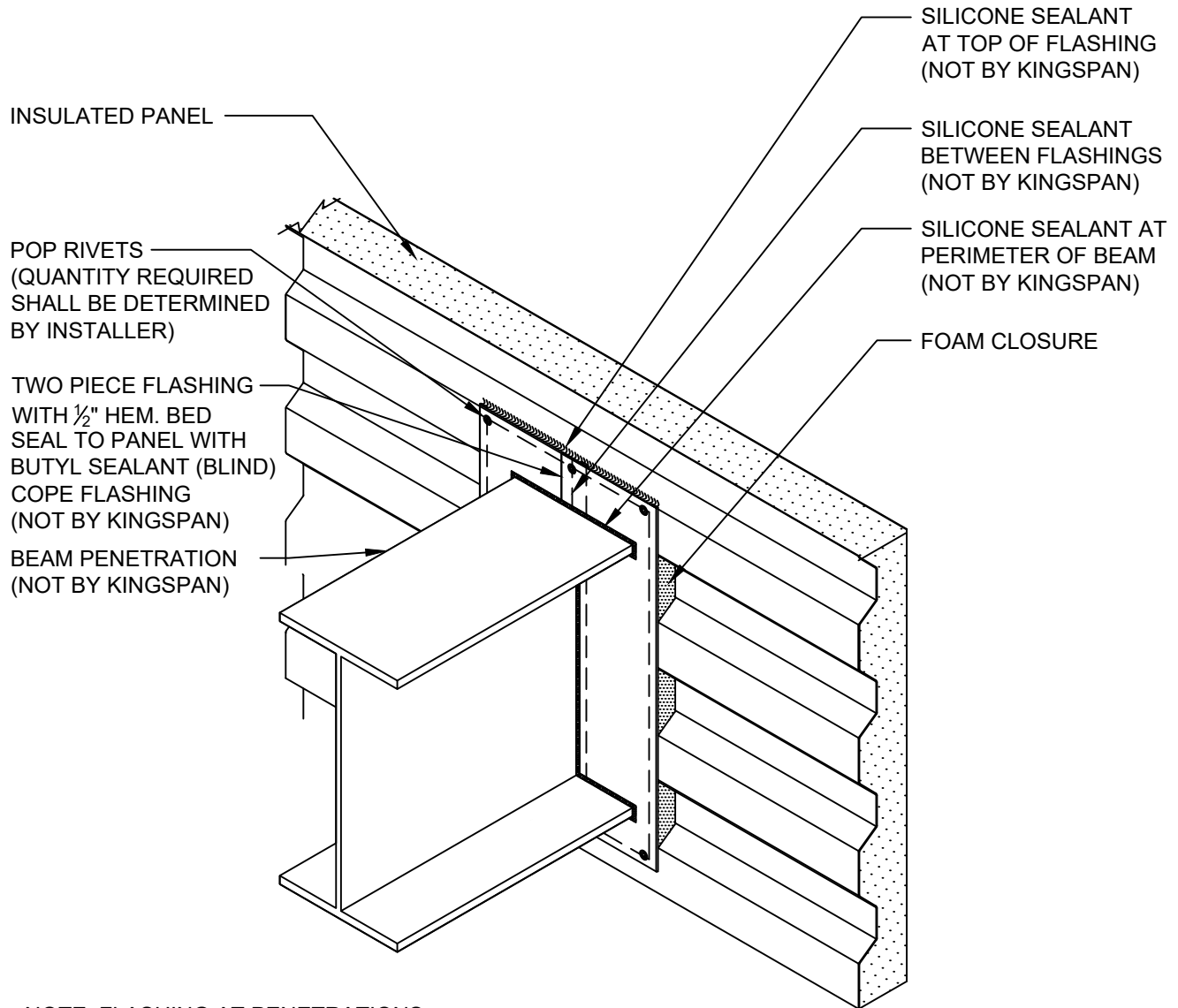
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



NOTE: FLASHING AT PENETRATIONS
TO BE FIELD FABRICATED FROM FLATSTOCK
SHEETS AS NECESSARY. QUANTITY OF
FLATSTOCK REQUIRED SHALL BE DETERMINED
BY INSTALLER
(NOT BY KINGSPAN)

NOTE:
DO NOT ALIGN PENETRATIONS
AT PANEL JOINT LOCATIONS.

REVISION	
REVISION #	DATE
0	05/18/23

BEAM PENETRATION
ISOMETRIC

DETAIL #: CI-PE-06-VH

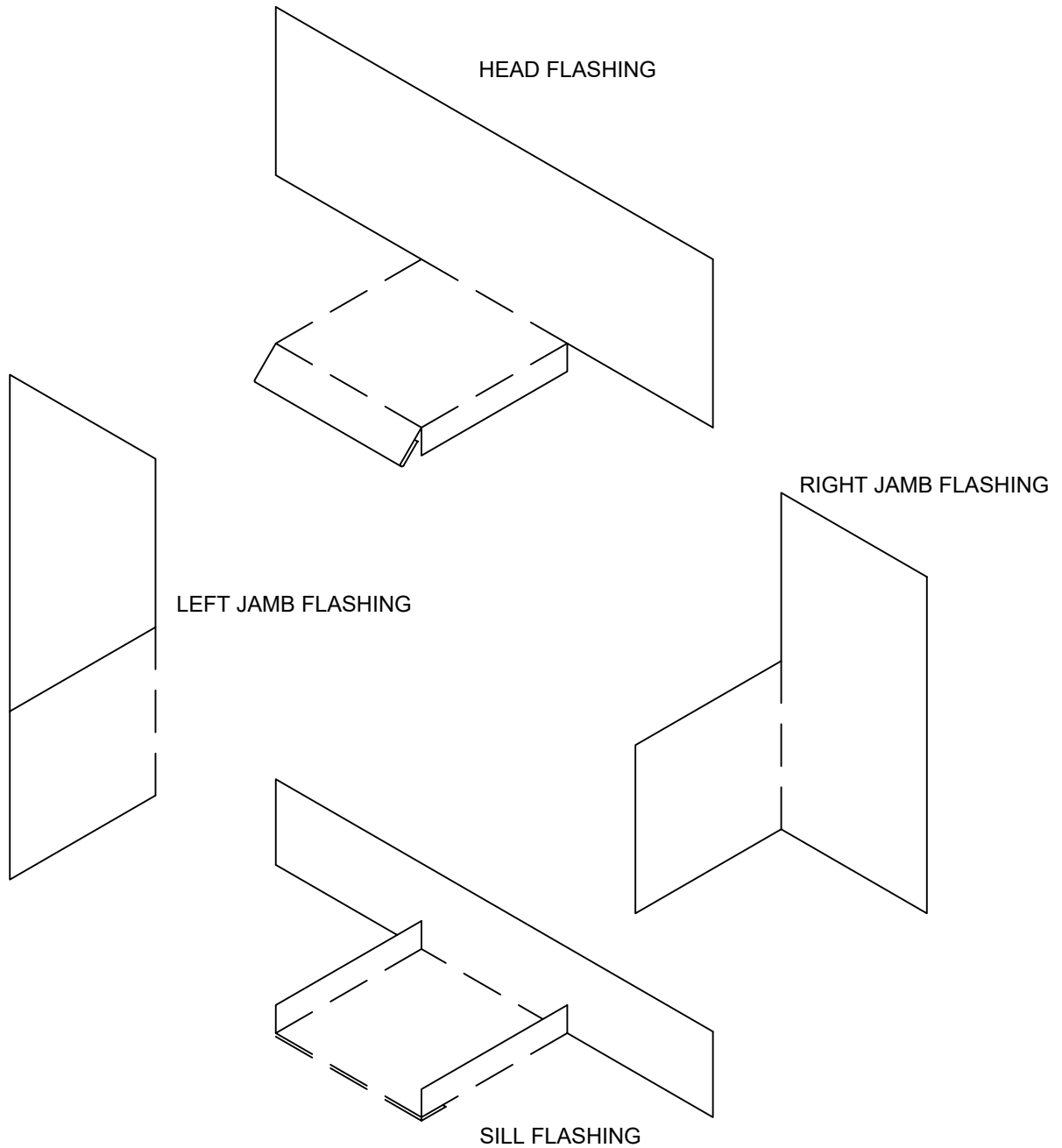
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

BOX PENETRATION
INSTALLATION SEQUENCE

DETAIL #: CI-PE-07-VH

RELEASE: 2024

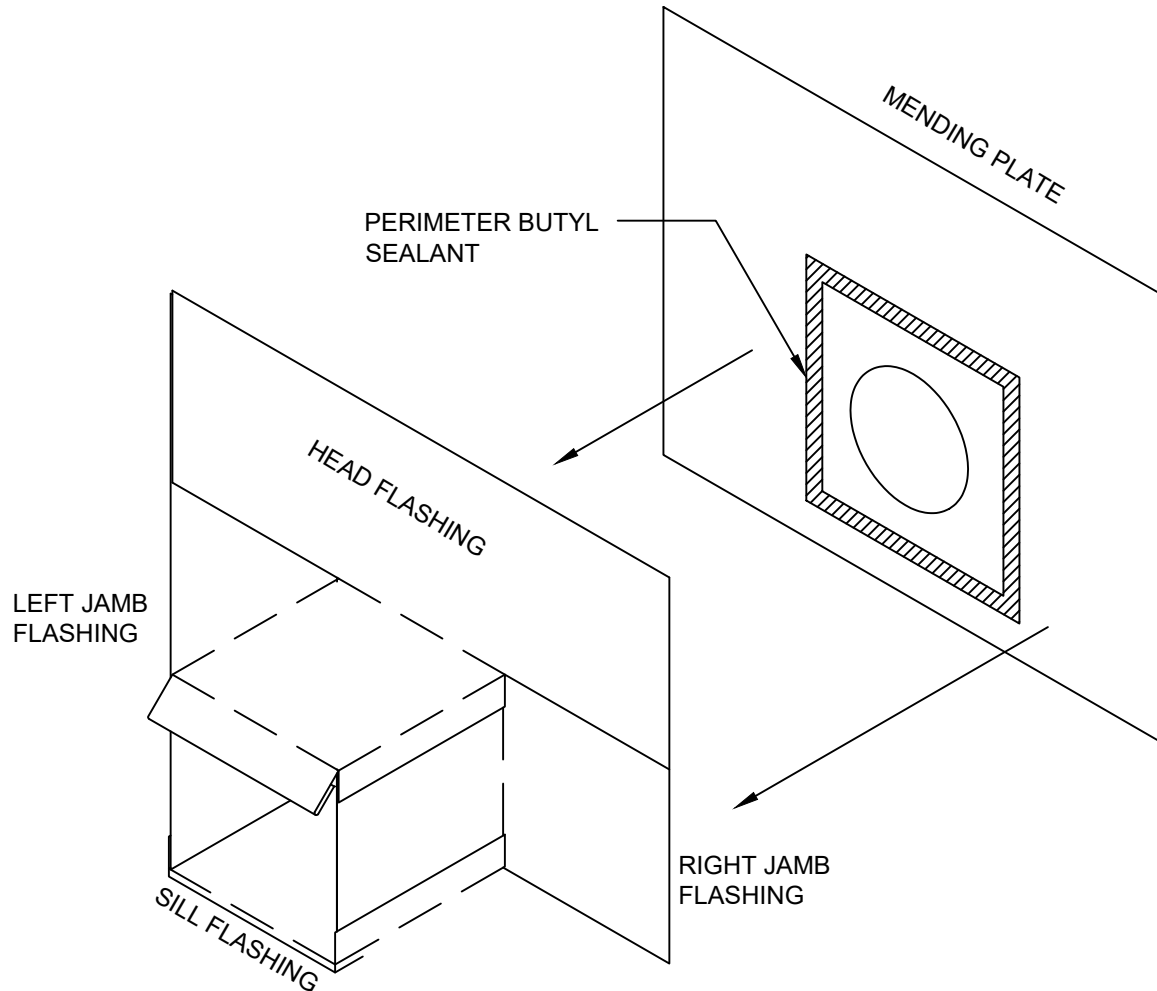
REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL

MENDING PLATE TO BE INSTALLED ONTO BACK
OF PRE-ASSEMBLED PENETRATION BOX
(PRE-CUT PENETRATION PRIOR TO INSTALLATION)



REVISION	
REVISION #	DATE
0	05/18/23

BOX PENETRATION
INSTALLATION SEQUENCE

DETAIL #: CI-PE-08-VH

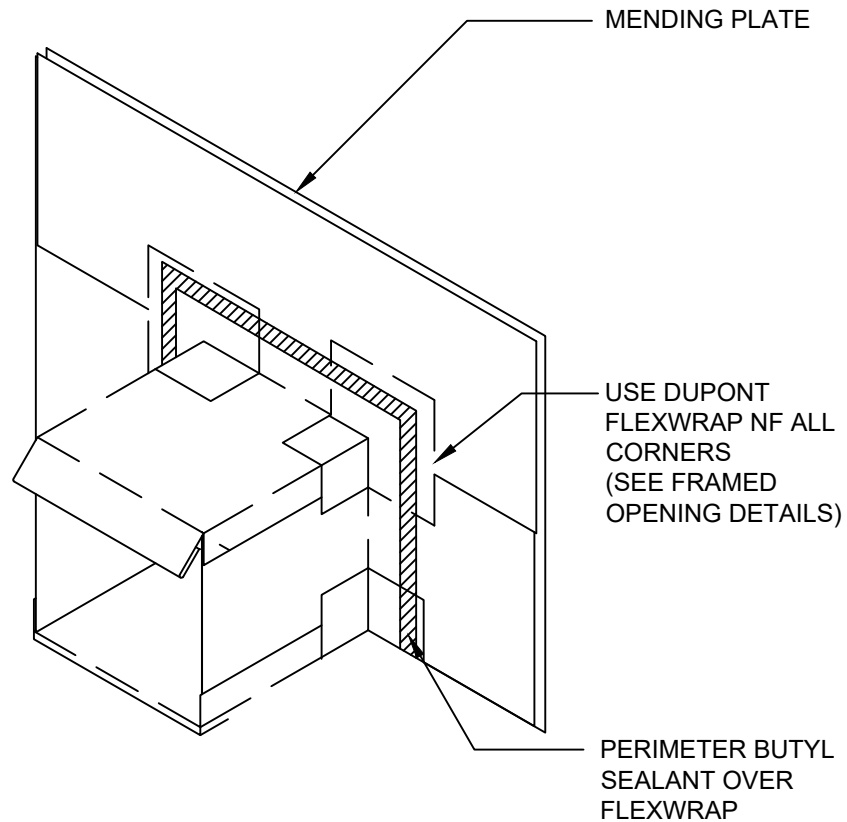
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

BOX PENETRATION
INSTALLATION SEQUENCE

DETAIL #: CI-PE-09-VH

RELEASE: 2024

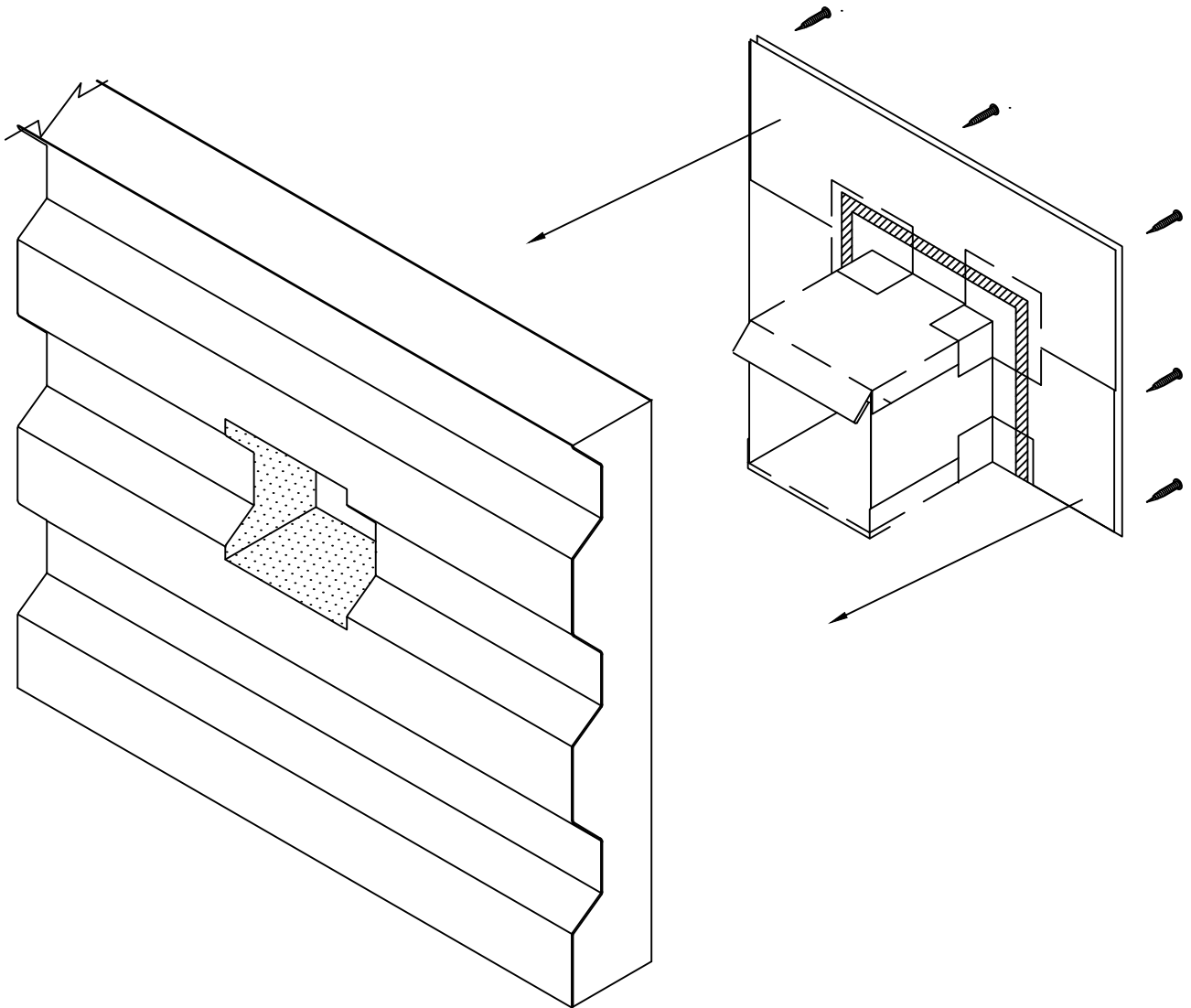
REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL

PENETRATION BOX TO BE ASSEMBLED ONTO
BACK OF PANELS WITH PPH TEK FASTENERS
MINIMUM 4" O.C.



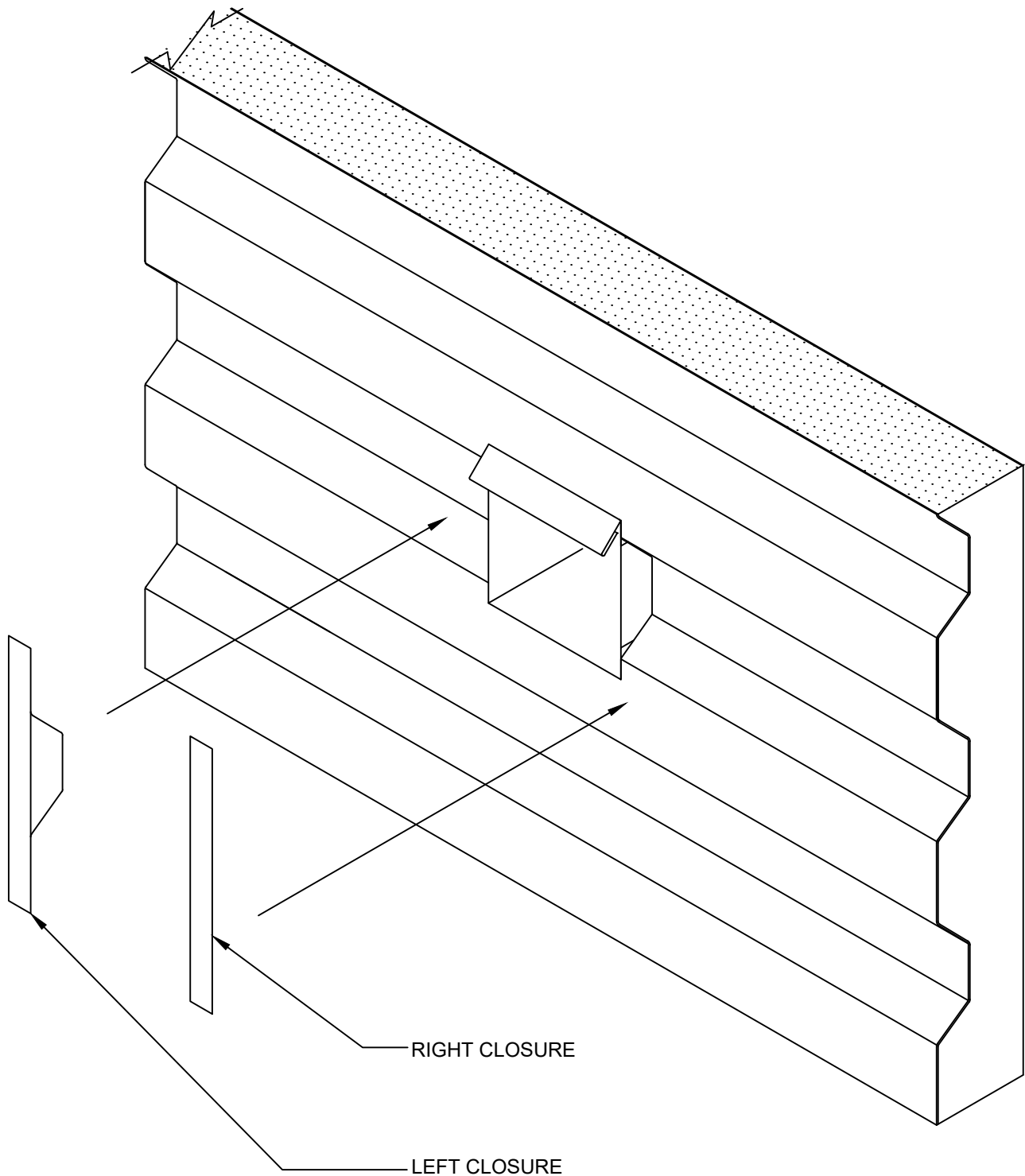
REVISION	
REVISION #	DATE
0	05/18/23

BOX PENETRATION
INSTALLATION SEQUENCE

DETAIL #: CI-PE-10-VH
RELEASE: 2024
REGION: NORTH AMERICA
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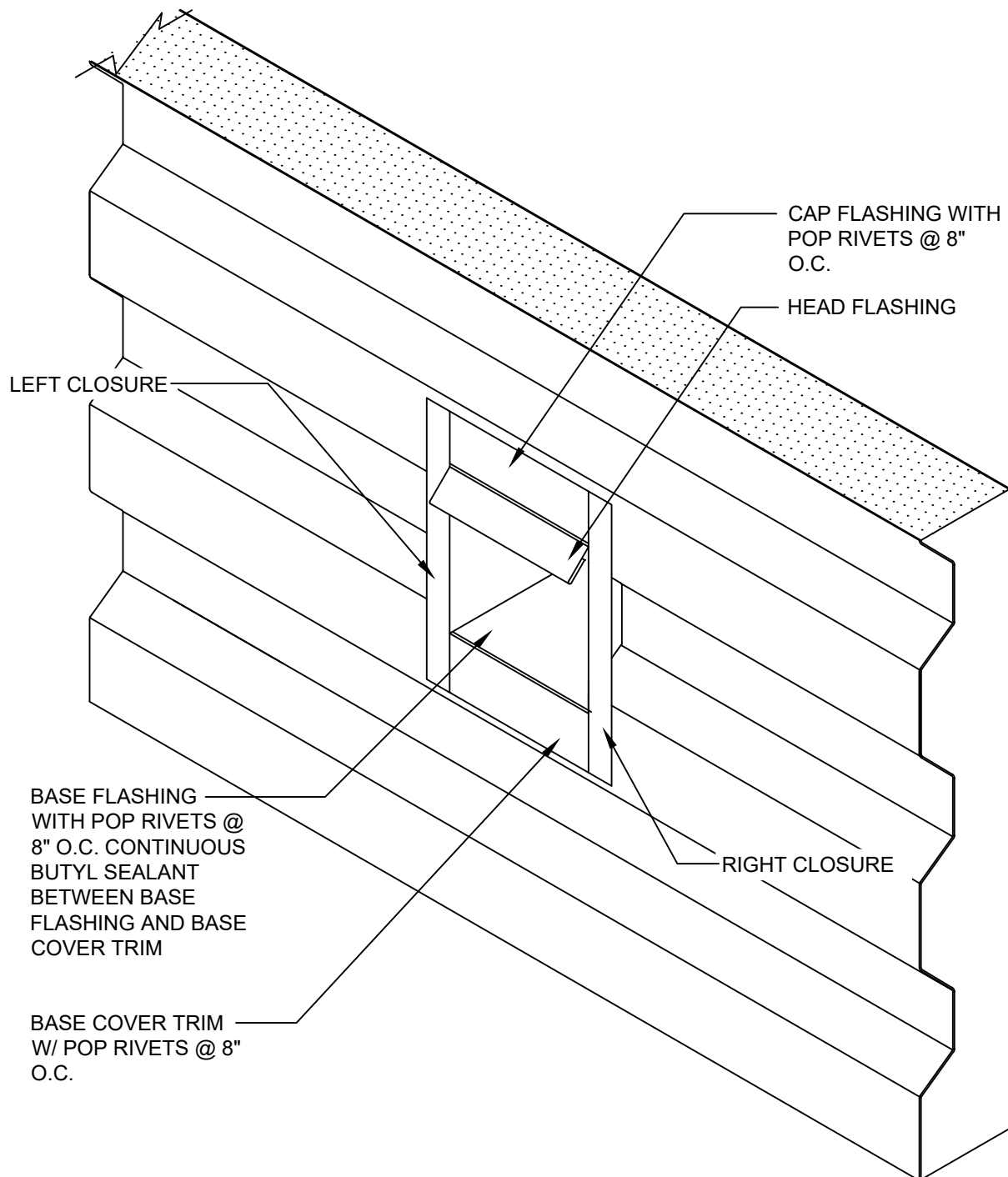
REVISION	
REVISION #	DATE
0	05/18/23

BOX PENETRATION
INSTALLATION SEQUENCE

DETAIL #: CI-PE-11-VH
RELEASE: 2024
REGION: NORTH AMERICA
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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

**BOX PENETRATION
INSTALLATION SEQUENCE**

DETAIL #: CI-PE-12-VH

RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL

REFER TO THE ISOMETRIC
SUPPLEMENTAL DRAWING
FOR FIELD PRE-FABRICATION
OF THE PENETRATION BOX

PENETRATION BOXES VARY
IN SIZE DUE TO PENETRATING
OBJECTS. CONFIRM WITH
KINGSPAN ENGINEERING IF
SUPPORTS ARE REQUIRED

CAP FLASHING WITH
POP RIVETS @ 8"
O.C.

HEAD FLASHING

PERIMETER BUTYL
SEALANT

PERIMETER BUTYL
SEALANT

MENDING PLATE

PERIMETER SEAL
PIPE WITH SILICONE
SEALANT (NOT BY
KINGSPAN)

BASE FLASHING
WITH POP RIVETS @
8" O.C. CONTINUOUS
BUTYL SEALANT
BETWEEN BASE
FLASHING AND BASE
COVER TRIM

BASE COVER TRIM
W/ POP RIVETS @ 8"
O.C.

MENDING PLATE
SHINGLE LAPPED
OVER BASE
FLASHING LEG WITH
CONTINUOUS BUTYL
SEALANT AND POP
RIVETS @ 4" O.C.

FLEX WRAP (SEE
ISOMETRIC FOR
INSTALLATION)

CAP TRIM WITH
CONTINUOUS BUTYL
SEALANT

PPH FASTENERS @
MAXIMUM 4" O.C.

CLOSURE TRIM NOT
SHOWN FOR CLARITY

REVISION

REVISION #	DATE
0	05/18/23

BOX PENETRATION SECTION

DETAIL #: CI-PE-13-VH

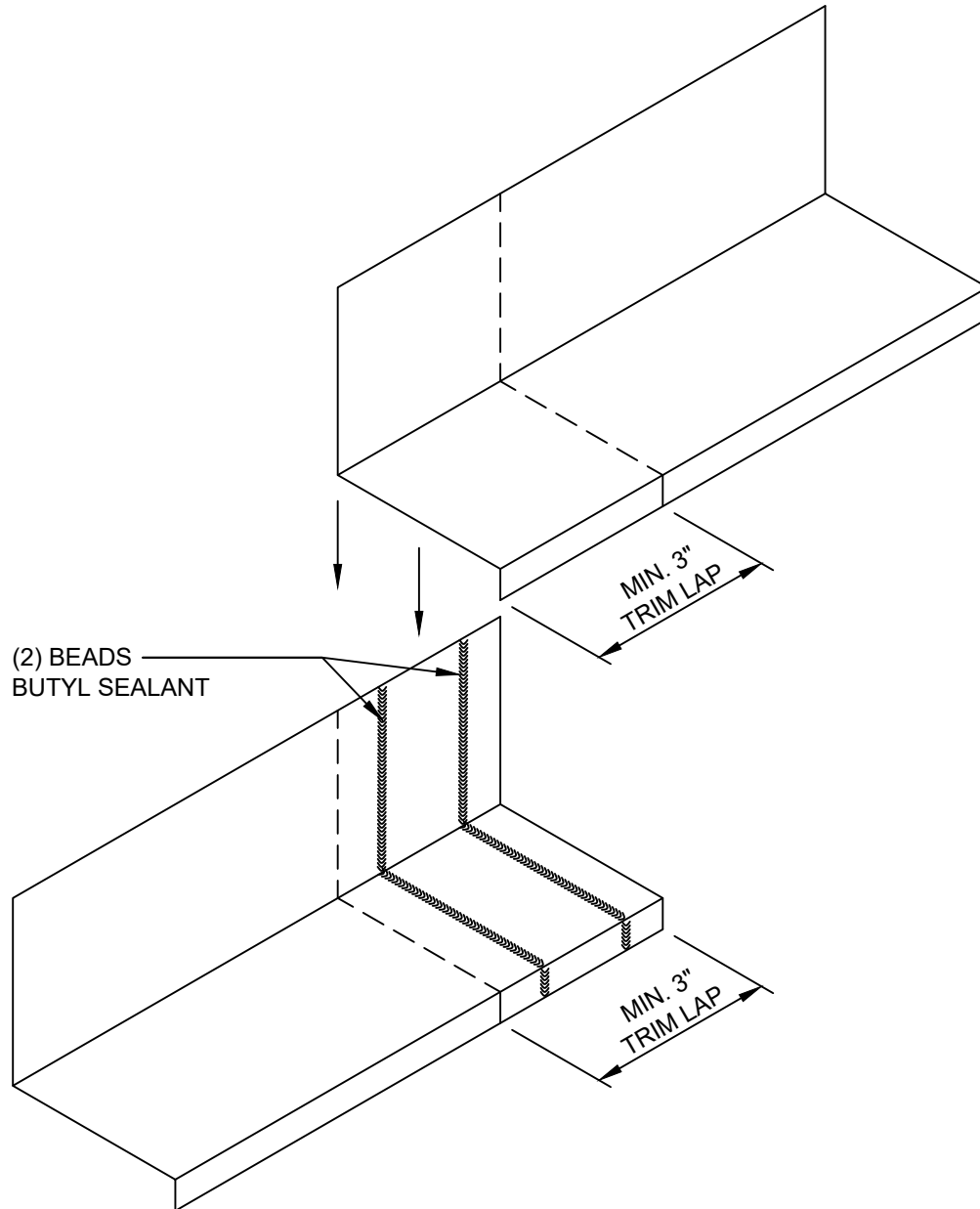
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

TRIM LAP DETAILS
W/ DRIP EDGE

DETAIL #: CI-TL-01-VH

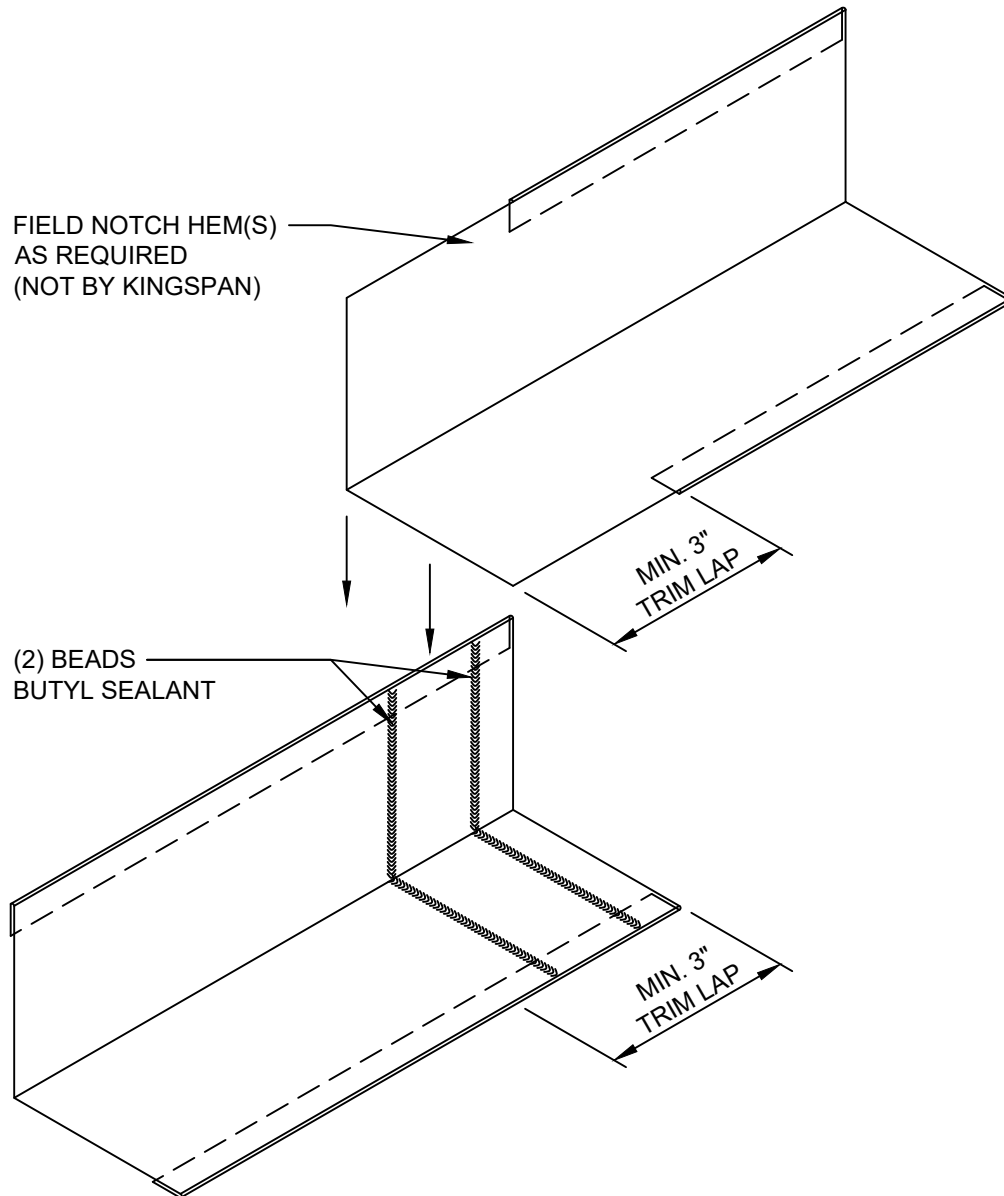
RELEASE: 2024

REGION: NORTH AMERICA

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

TRIM LAP DETAILS
W/ HEM

DETAIL #: CI-TL-02-VH

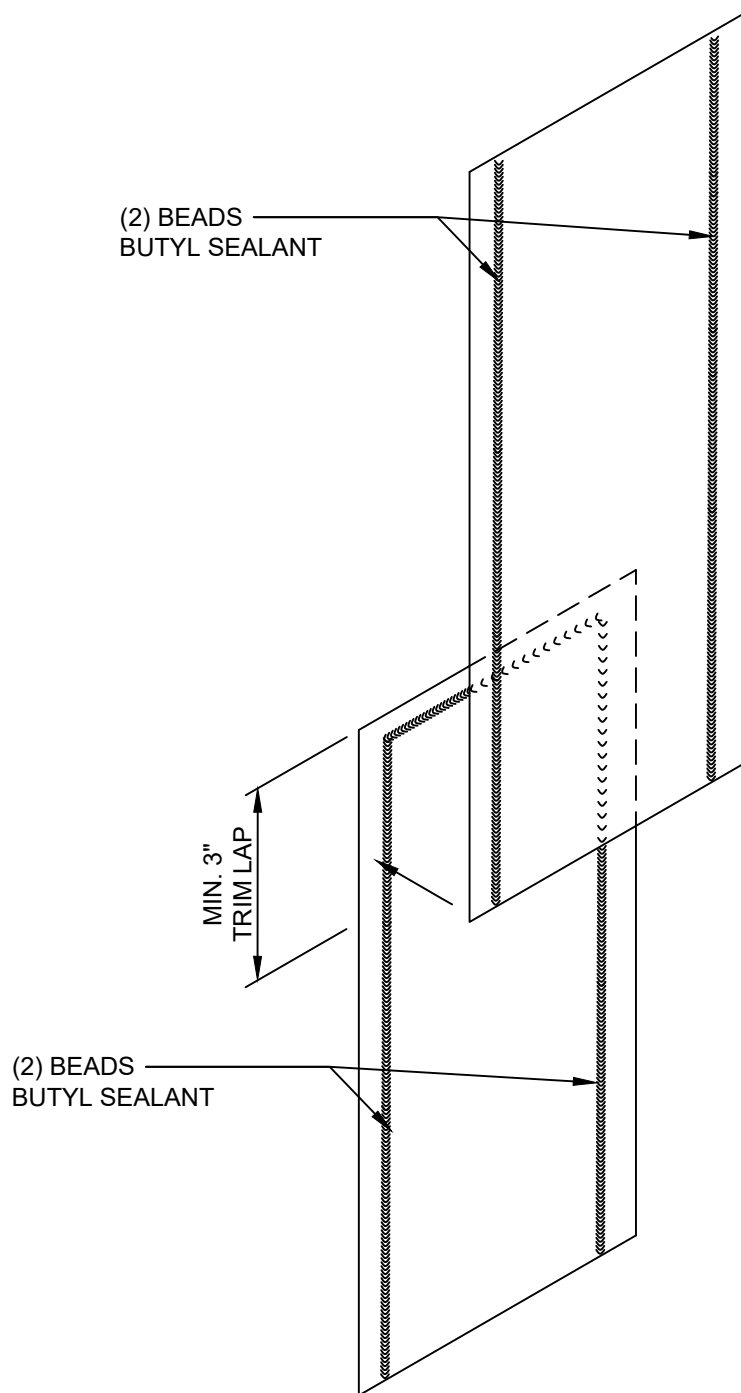
RELEASE: 2024

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VALE - HORIZONTAL INSTALL



REVISION	
REVISION #	DATE
0	05/18/23

MENDING PLATE
SHINGLE LAP

DETAIL #: CI-TL-03-VH

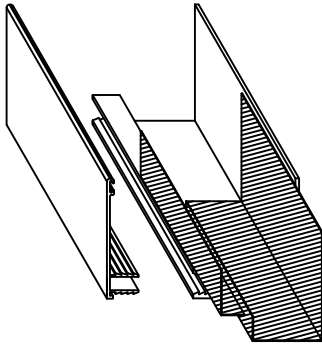
RELEASE: 2024

REGION: NORTH AMERICA

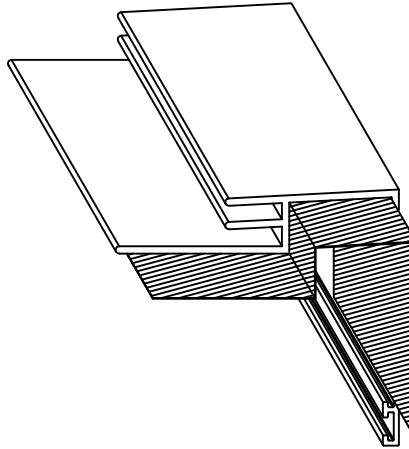
www.kingspanpanels.com



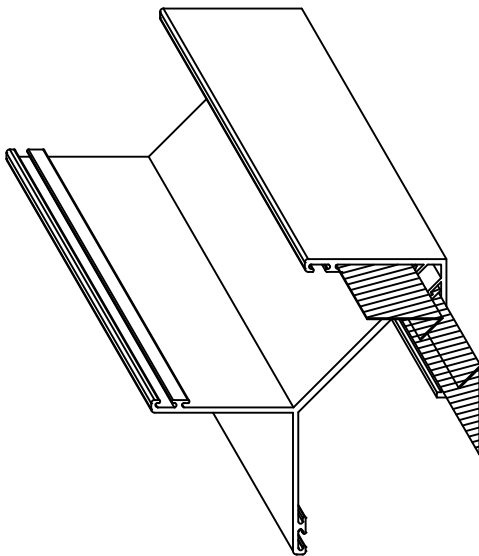
VALE - HORIZONTAL INSTALL



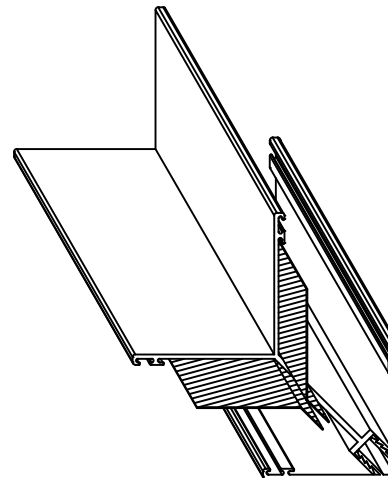
LAP STRIP FOR TWO PIECE
JAMB EXTRUSION



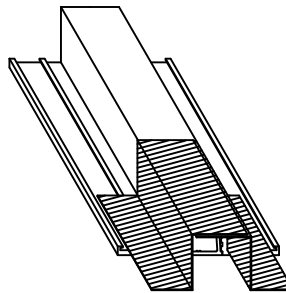
LAP STRIP FOR PARAPET EXTRUSION



LAP STRIPS FOR OUTSIDE CORNER
EXTRUSION



LAP STRIPS FOR INSIDE CORNER
EXTRUSION



LAP STRIP FOR VERTICAL HAT EXTRUSION

REVISION	
REVISION #	DATE
0	05/18/23

MENDING PLATE
EXTRUSIONS

DETAIL #: CI-TL-04-VH

RELEASE: 2024

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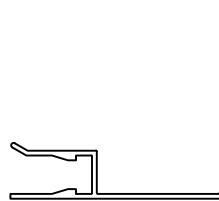
www.kingspanpanels.com



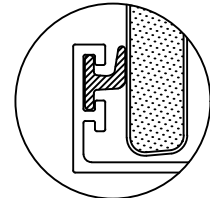
VALE - HORIZONTAL INSTALL



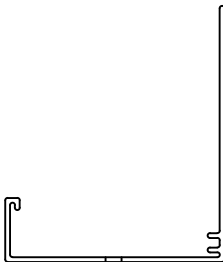
TWO PIECE OPENING
EXTRUSION CAP
PART # 2-0215



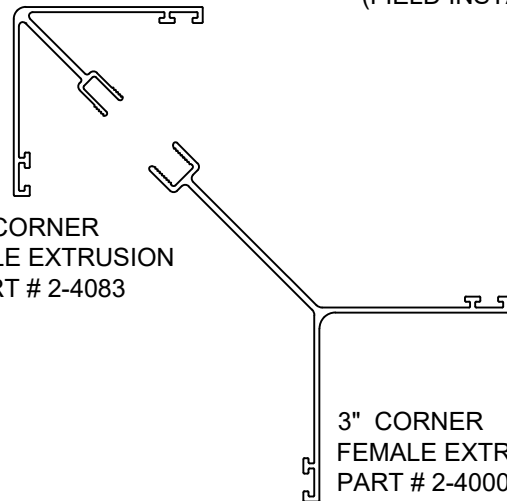
3" TWO PIECE OPENING
EXTRUSION BASE
PART # 2-0269



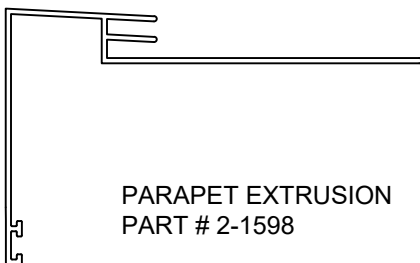
OPTIONAL WIPER
GASKET
(FIELD INSTALLED)



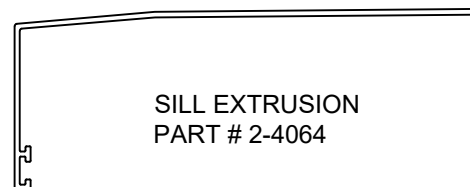
3" CORNER
MALE EXTRUSION
PART # 2-4083



3" CORNER
FEMALE EXTRUSION
PART # 2-4000



PARAPET EXTRUSION
PART # 2-1598



SILL EXTRUSION
PART # 2-4064

REVISION	
REVISION #	DATE
0	05/18/23

KS SERIES
3" EXTRUSIONS

DETAIL #: CI-EX-01-VH

RELEASE: 2024

REGION: NORTH AMERICA

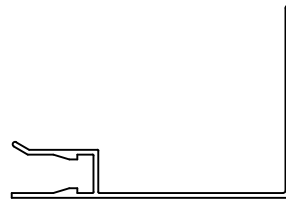
www.kingspanpanels.com



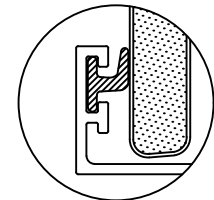
VALE - HORIZONTAL INSTALL



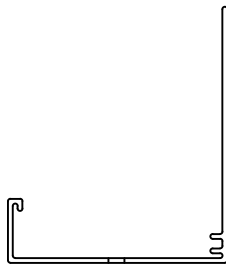
TWO PIECE OPENING
EXTRUSION CAP
PART # 2-0215



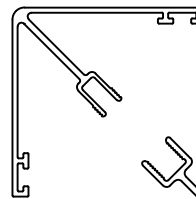
4" TWO PIECE OPENING
EXTRUSION BASE
PART # 2-4266



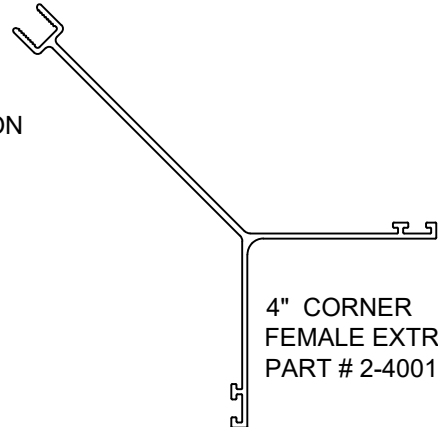
OPTIONAL WIPER
GASKET
(FIELD INSTALLED)



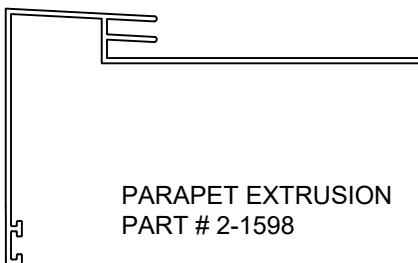
4" BASE "B" EXTRUSION
PART # 2-4097



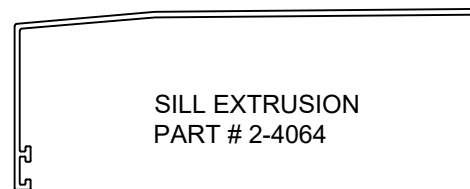
4" CORNER
MALE EXTRUSION
PART # 2-4083



4" CORNER
FEMALE EXTRUSION
PART # 2-4001



PARAPET EXTRUSION
PART # 2-1598



SILL EXTRUSION
PART # 2-4064

REVISION	
REVISION #	DATE
0	05/18/23

KS SERIES
4" EXTRUSIONS

DETAIL #: CI-EX-02-VH

RELEASE: 2024

REGION: NORTH AMERICA

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