

KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

CLICK TO VIEW



REVISION

0	12/5/25
1	8/5/26

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INDEX SHEET

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DISCLAIMERS:

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

REFRIGERATION EQUIPMENT IN COMBINATION WITH THE TEMPERATURE DIFFERENTIAL BETWEEN BUILDING EXTERIOR AND INTERIOR CAN CREATE NEGATIVE AIR PRESSURE WITHIN THE BUILDING (WARM AIR FROM OUTSIDE THE BUILDING IS DRAWN INTO THE BUILDING THROUGH AIR LEAKS IN THE BUILDING ENVELOPE). AS A RESULT, VAPOR SEALS ARE OF PRIMARY CONCERN TO PROPER COLD STORAGE PERFORMANCE. IN GENERAL, COLD STORAGE FACILITIES REQUIRE THE PRIMARY VAPOR BARRIER TO BE ON THE EXTERIOR (I.E. "WARM" SIDE), RATHER THAN INTERIOR SIDE OF THE PANEL.

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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CONTROLLED ENVIRONMENT
DISCLAIMER

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CORE DEPTHS:
2", 2.5", 3", 4", 5", 6", 8"

MODULE WIDTH:
24", 30", 36", 42"

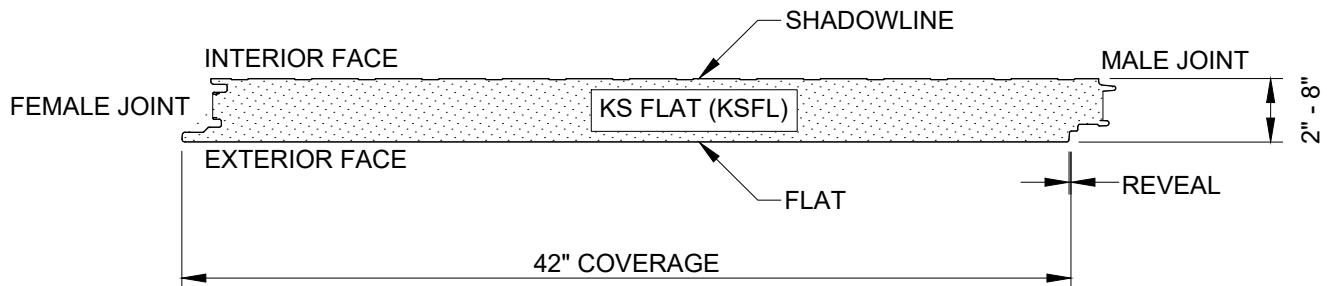
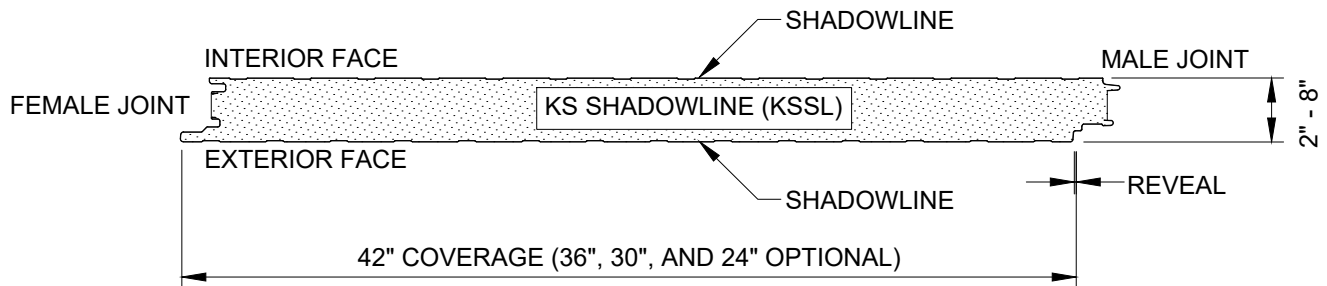
EMBOSSING:
EXTERIOR: STUCCO / SMOOTH
INTERIOR: STUCCO / SMOOTH

STEEL GAUGES:
EXTERIOR: 26, 24, 22
INTERIOR: 26, 24, 22

PANEL ORIENTATION:
VERTICAL

LENGTHS:
MINIMUM: 8'-0"
MAXIMUM: 53'-0"

REVEAL OPTIONS:
 $\frac{1}{8}$ ", $\frac{3}{8}$ "



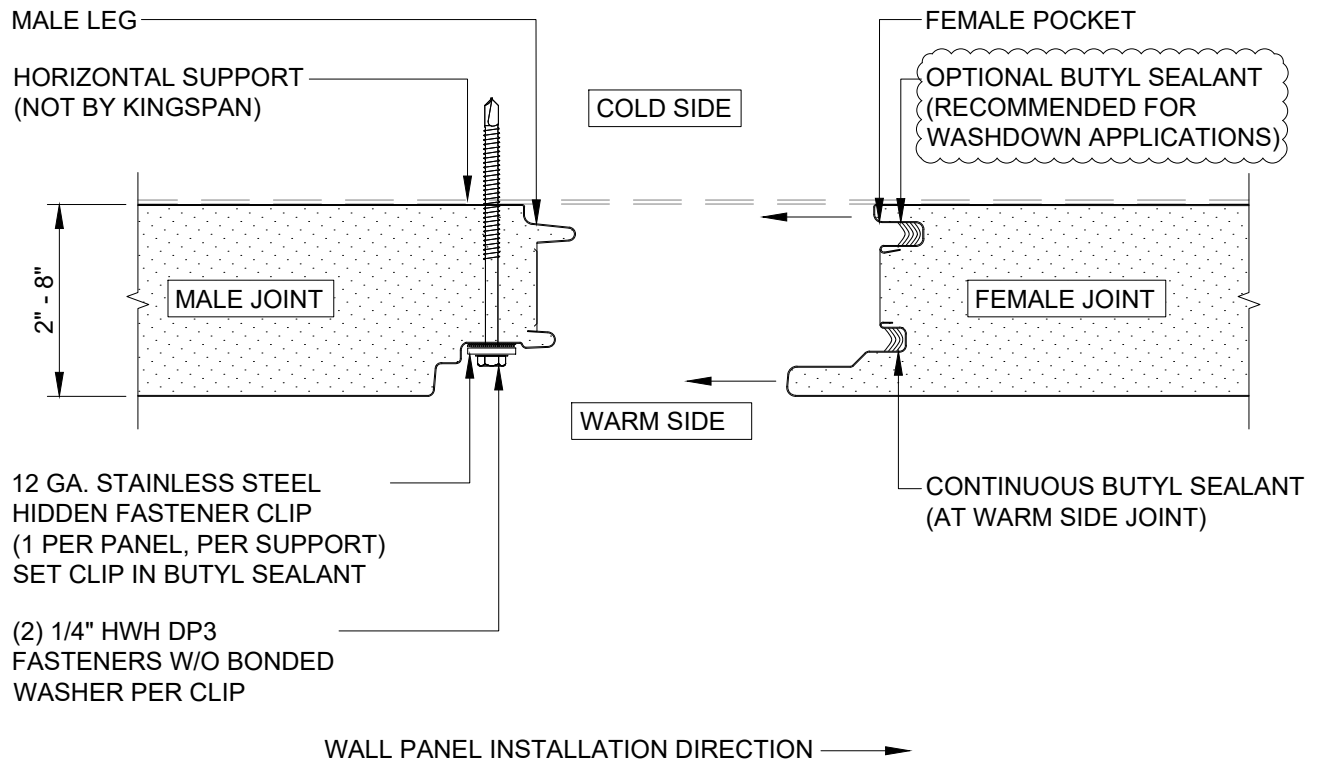
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KS
PANEL PROFILES

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NOTE: FILL FEMALE POCKET(S) 3/4 FULL WITH SEALANT TO PROVIDE PROPER AIR/WATER SEAL
 * VERIFY FIRST PANEL ENGAGEMENT AND ADJUST ACCORDINGLY

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KS
EXPANDED JOINT

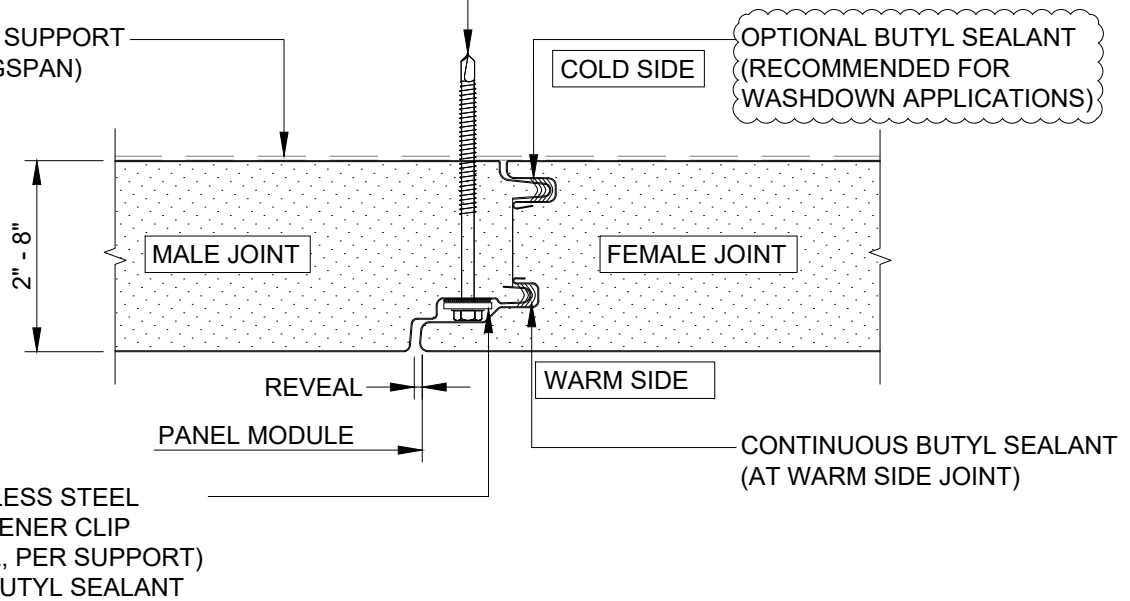
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(2) 1/4" HWH DP3
FASTENERS W/O BONDED
WASHER PER CLIP

HORIZONTAL SUPPORT
(NOT BY KINGSPAN)



WALL PANEL INSTALLATION DIRECTION →

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KS
ENGAGED JOINT

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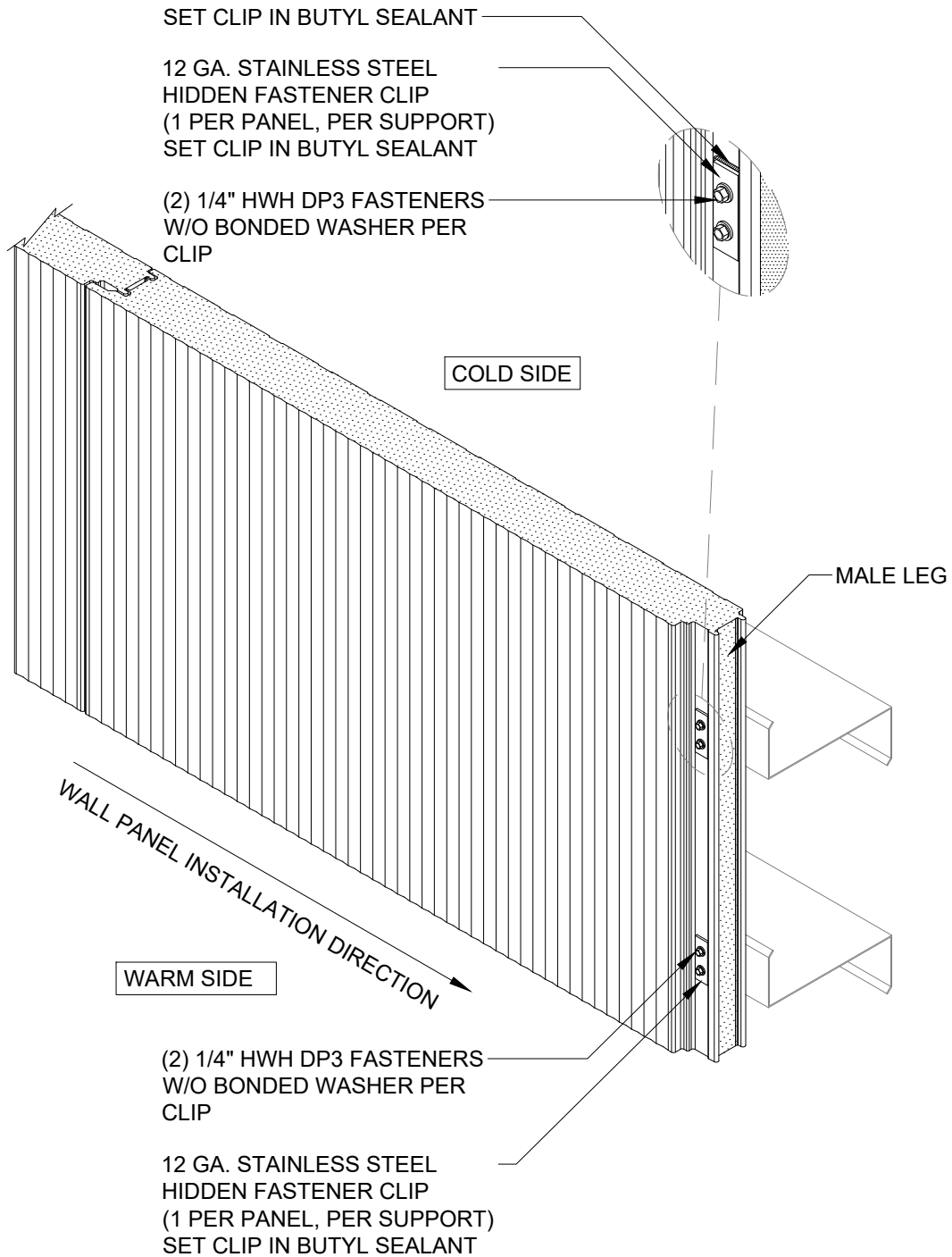
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KS STANDARD FASTENING
ISOMETRIC

DETAIL #: CS-PJ-03-KSV

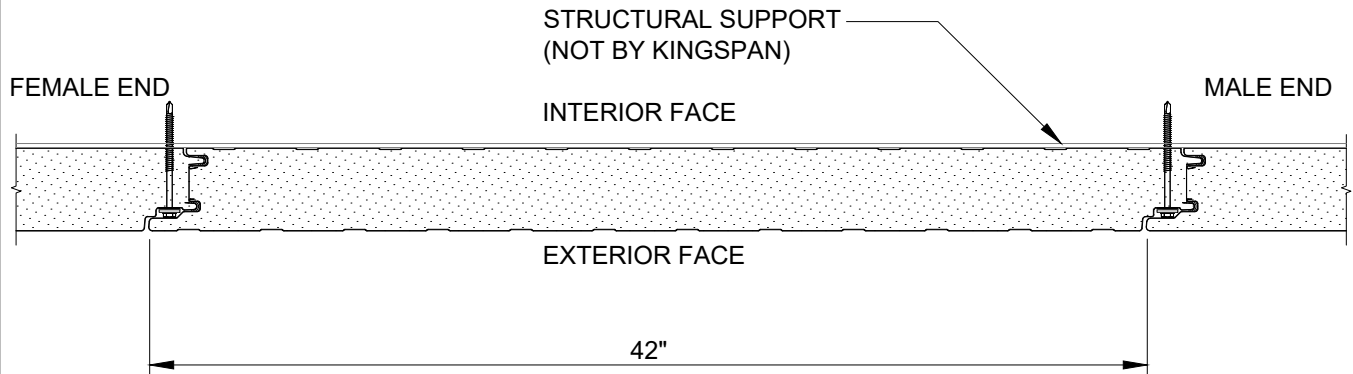
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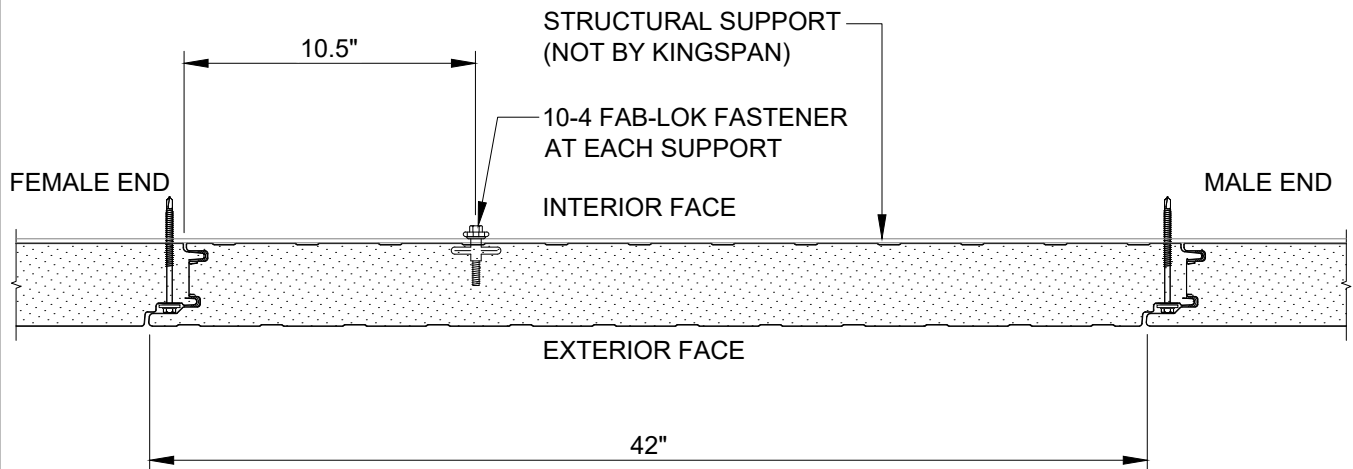
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FASTENING PATTERN 1A
STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH
DP3 FASTENERS W/O BONDED WASHER PER CLIP



FASTENING PATTERN 2A
STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH
DP3 FASTENERS W/O BONDED WASHER PER CLIP / ADDITIONAL FAB-LOK
FASTENER 10.5" FROM FEMALE JOINT

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FASTENING PATTERN
KS "1A" - "2A"

DETAIL #: CS-FP-01-KSV

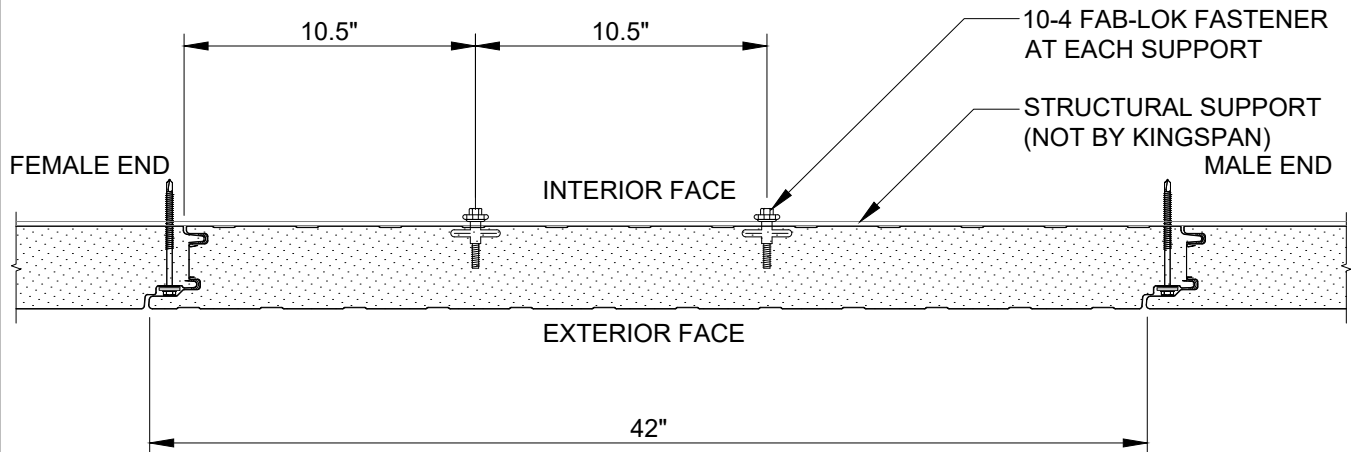
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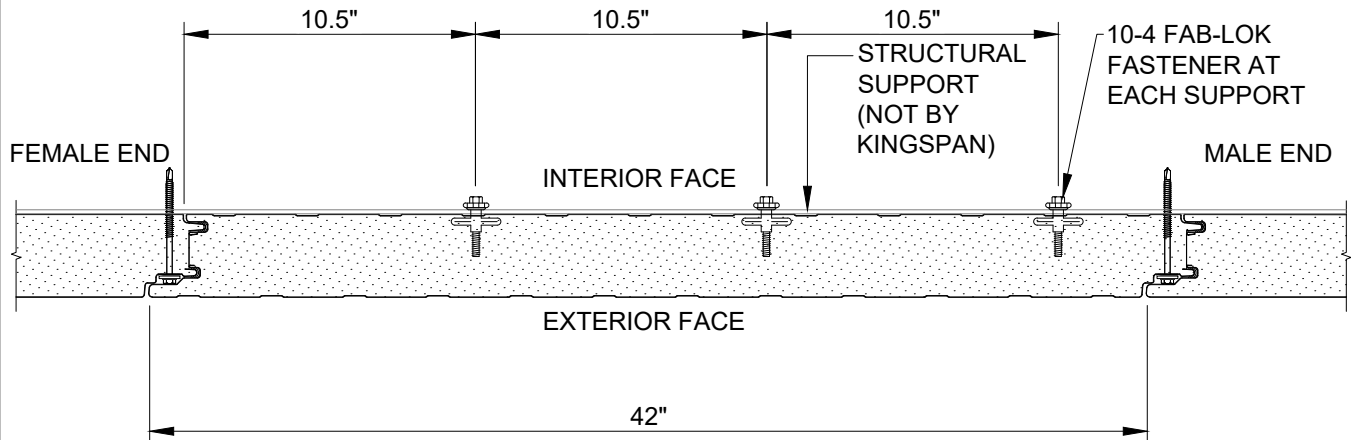
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FASTENING PATTERN 3A
 STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH
 DP3 FASTENERS W/O BONDED WASHER PER CLIP / 2 ADDITIONAL FAB-LOK
 FASTENERS SPACED AT 10.5" FROM FEMALE JOINT



FASTENING PATTERN 4A
 STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH
 DP3 FASTENERS W/O BONDED WASHER PER CLIP / 3 ADDITIONAL FAB-LOK
 FASTENERS SPACED AT 10.5" FROM FEMALE JOINT

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FASTENING PATTERN
KS "3A" - "4A"

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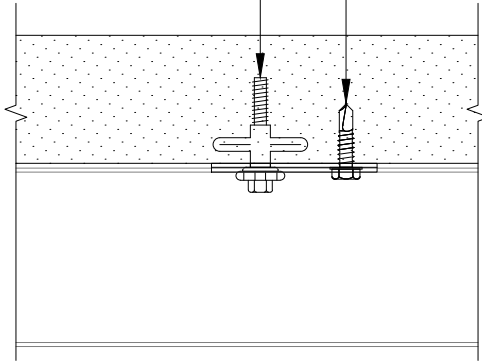
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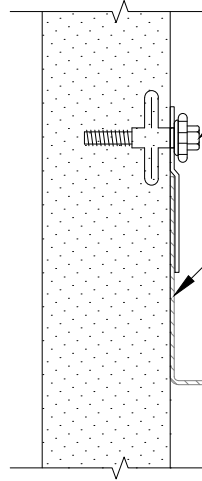
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1/4"-14x1" HWH DP3
FASTENER W/O WASHER

FAB LOK FASTENERS



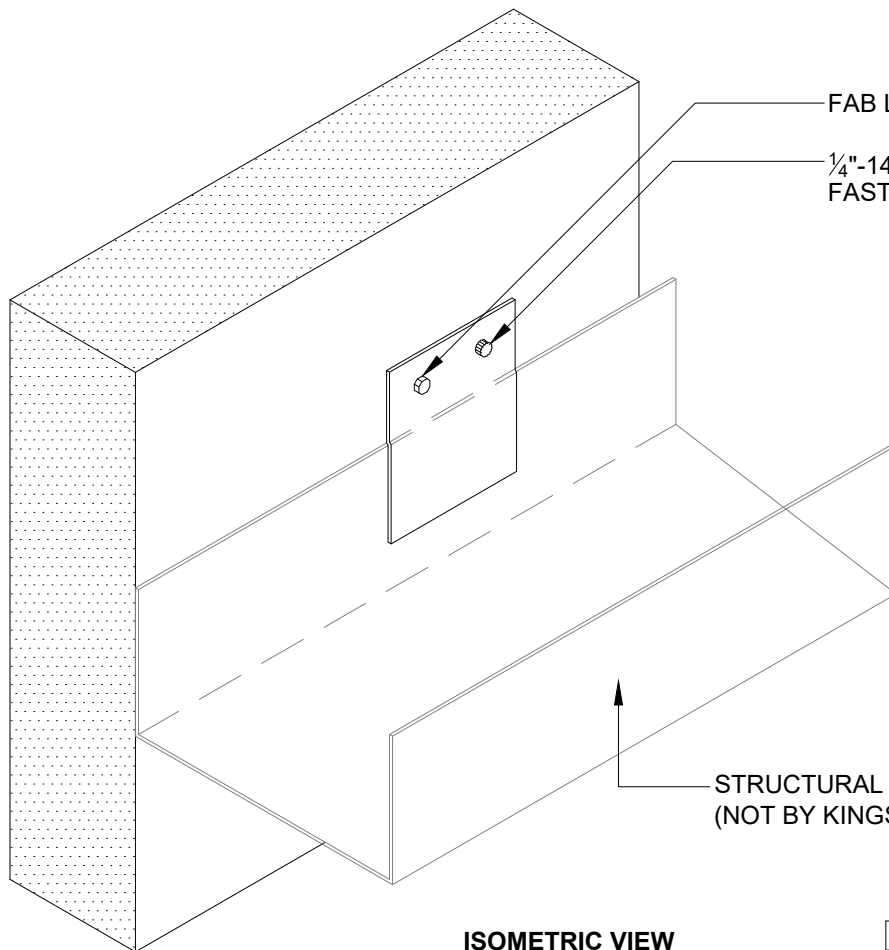
PLAN



SECTION

FAB LOK FASTENERS AND
1/4"-14x1" HWH DP3
FASTENER W/O WASHER

STRUCTURAL SUPPORT
(NOT BY KINGSPAN)



ISOMETRIC VIEW

FAB LOK FASTENERS

1/4"-14x1" HWH DP3
FASTENER W/O WASHER

STRUCTURAL SUPPORT
(NOT BY KINGSPAN)

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GIRT CLIP SECTION AND ISOMETRIC

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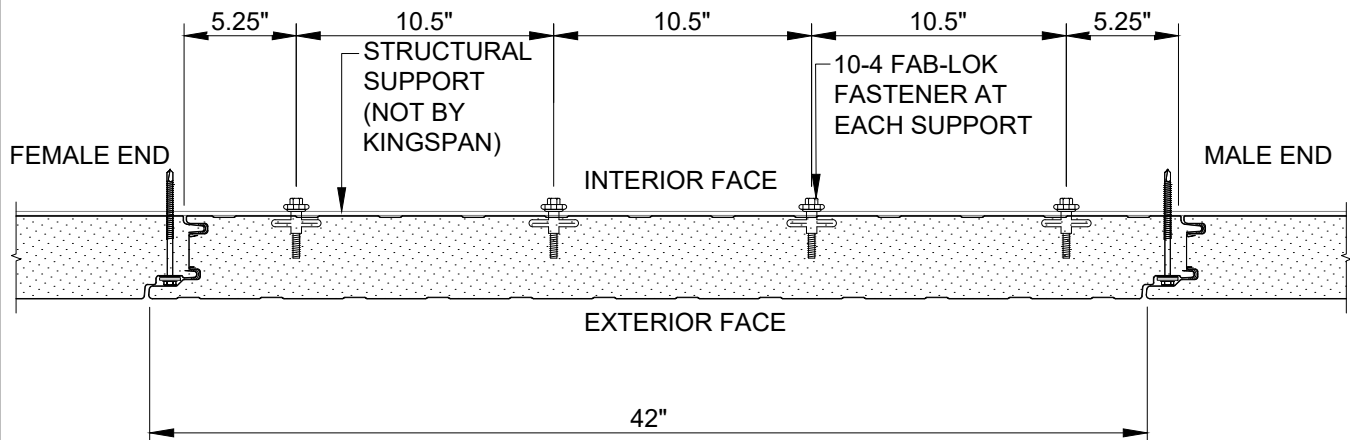
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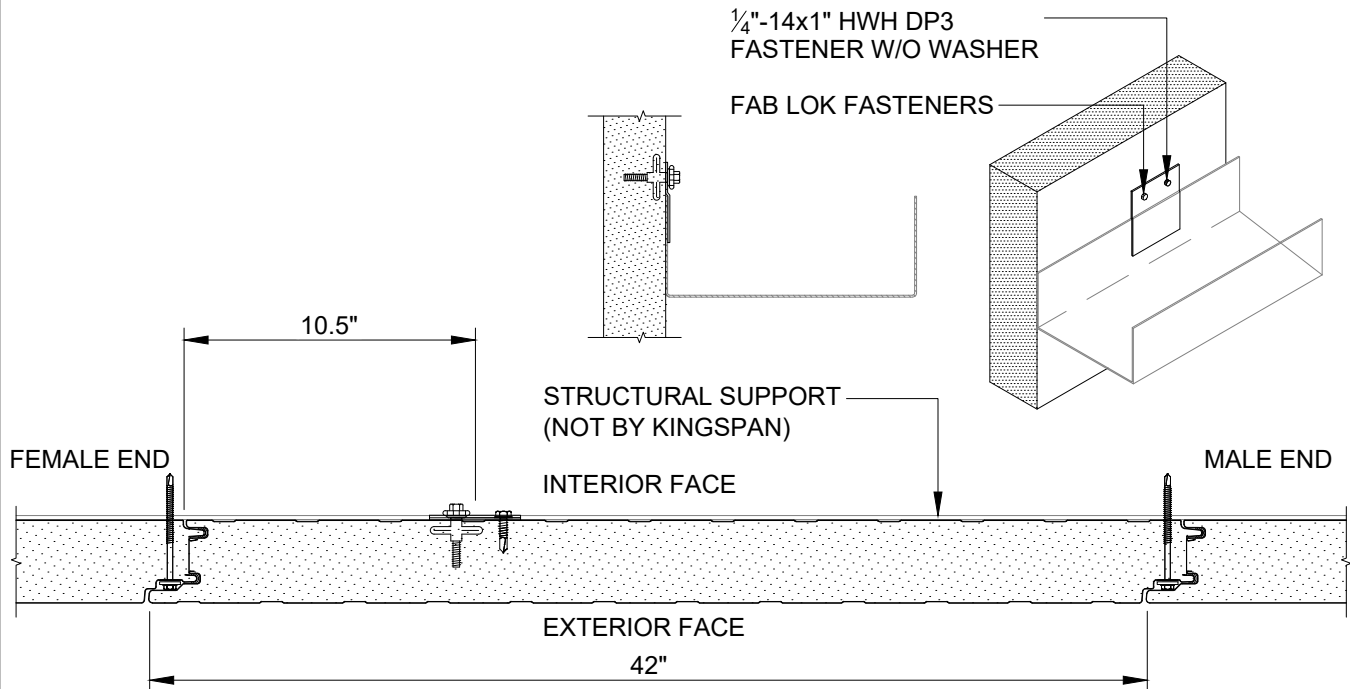
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FASTENING PATTERN 5A
STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH DP3 FASTENERS W/O BONDED WASHER PER CLIP / 4 ADDITIONAL FAB-LOK FASTENERS SPACED AT 5.25", 10.5", 10.5", 10.5" FROM FEMALE JOINT



FASTENING PATTERN 6A
STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH DP3 FASTENERS W/O BONDED WASHER PER CLIP / ADDITIONAL GIRT CLIP W/ (1) FAB-LOK FASTENER AND (1) 1/4"-14x1" HWH DP3 FASTENER. GIRT CLIP TO BE CENTERED AT 10.5" FROM FEMALE JOINT

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FASTENING PATTERN
KS "5A" - "6A"

DETAIL #: CS-FP-04-KSV

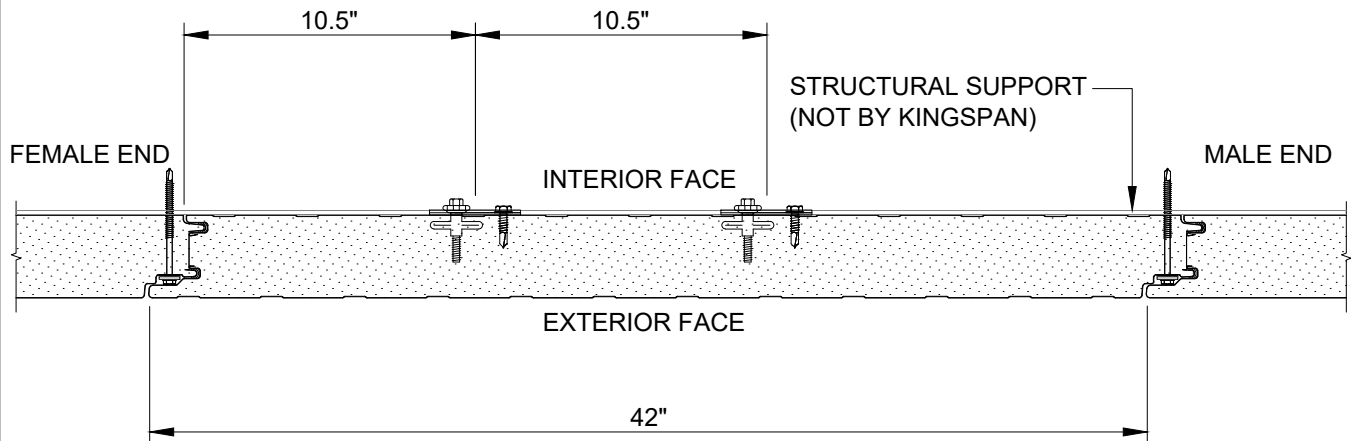
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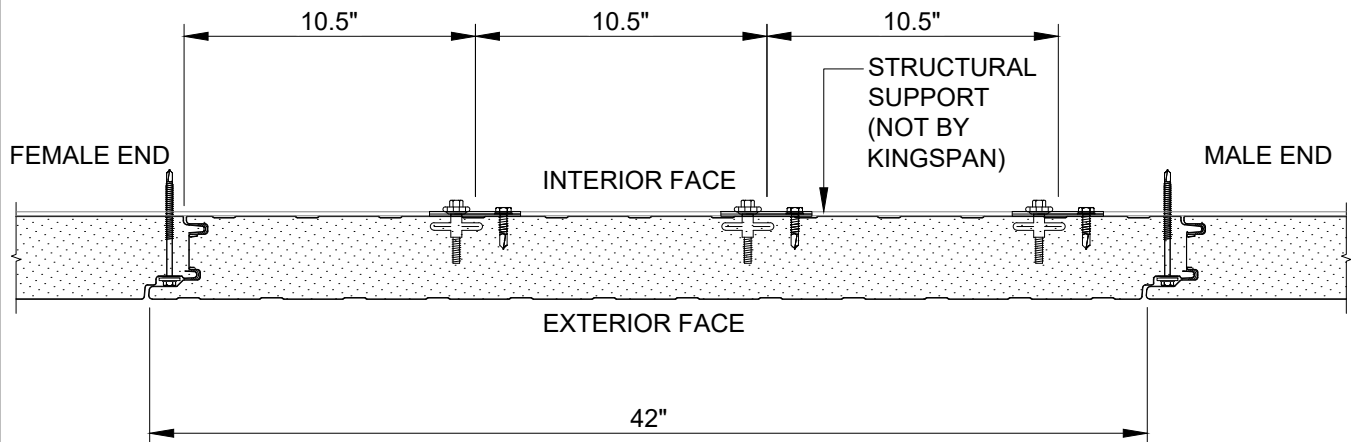


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FASTENING PATTERN 7A

STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH DP3 FASTENERS W/O BONDED WASHER PER CLIP / 2 - ADDITIONAL GIRT CLIPS W/ (1) FAB-LOK FASTENER AND (1) 1/4"-14x1" HWH DP3 PER CLIP. GIRT CLIP TO BE CENTERED AT 10.5" FROM FEMALE JOINT AND 10.5" FROM FIRST GIRT CLIP



FASTENING PATTERN 8A

STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH DP3 FASTENERS W/O BONDED WASHER PER CLIP / 3 - ADDITIONAL GIRT CLIPS W/ (1) FAB-LOK FASTENER AND (1) 1/4"-14x1" HWH DP3 PER CLIP. GIRT CLIP TO BE CENTERED AT 10.5" FROM FEMALE JOINT AND 10.5" FROM FIRST GIRT CLIP

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FASTENING PATTERN
KS "7A" - "8A"

DETAIL #: CS-FP-05-KSV

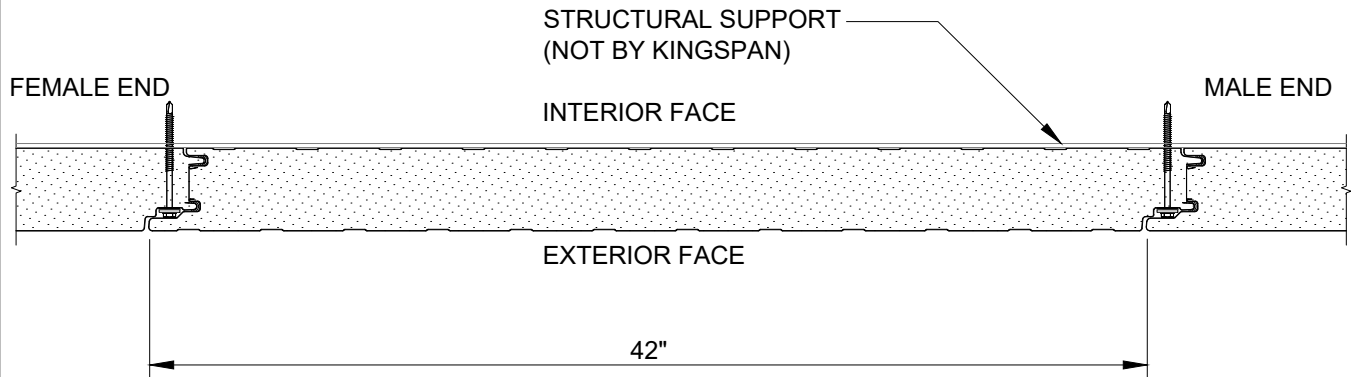
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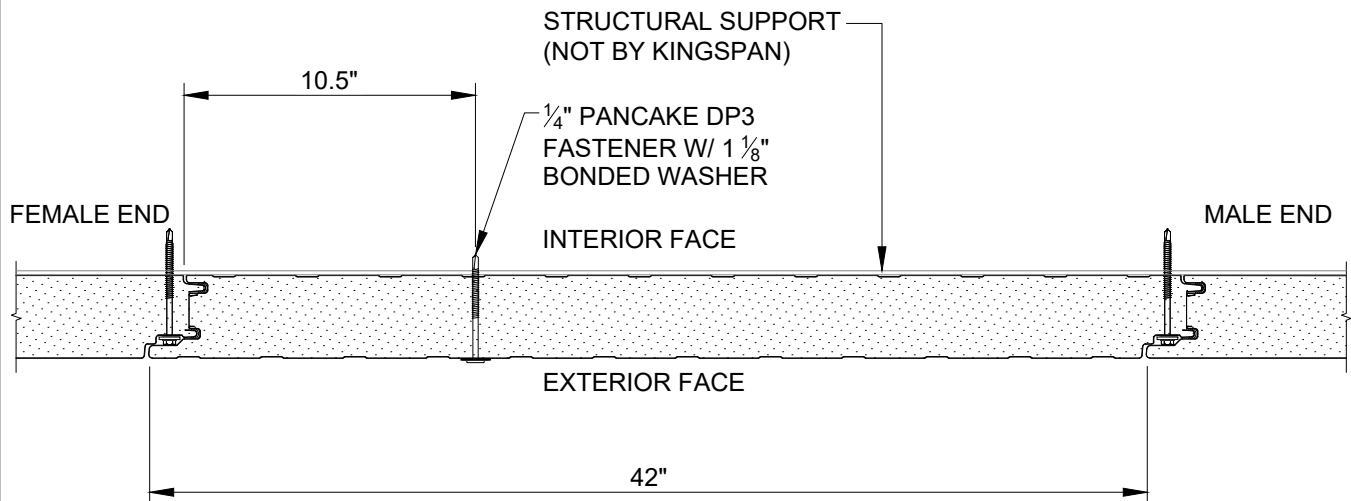
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FASTENING PATTERN 1B
STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH
DP3 FASTENERS W/O BONDED WASHER PER CLIP



FASTENING PATTERN 2B
STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH
DP3 FASTENERS W/O BONDED WASHER PER CLIP / 1 ADDITIONAL 1/4"
PANCAKE DP3 FASTENERS W/ 1 1/8" BONDED WASHER SPACED AT 10.5"
FROM FEMALE JOINT

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FASTENING PATTERN
KS "1B" - "2B"

DETAIL #: CS-FP-06-KSV

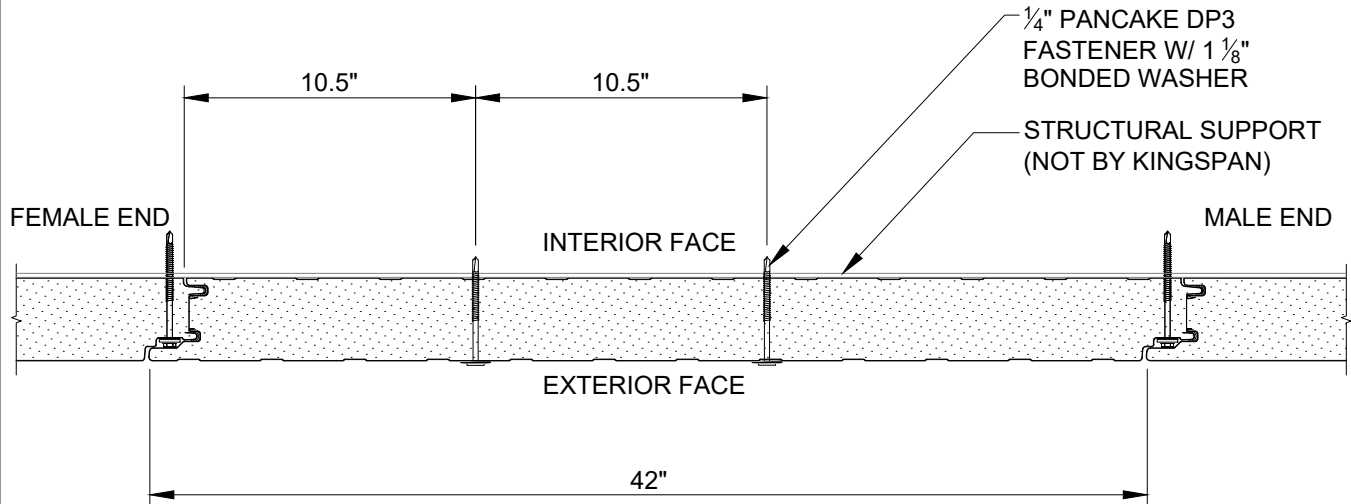
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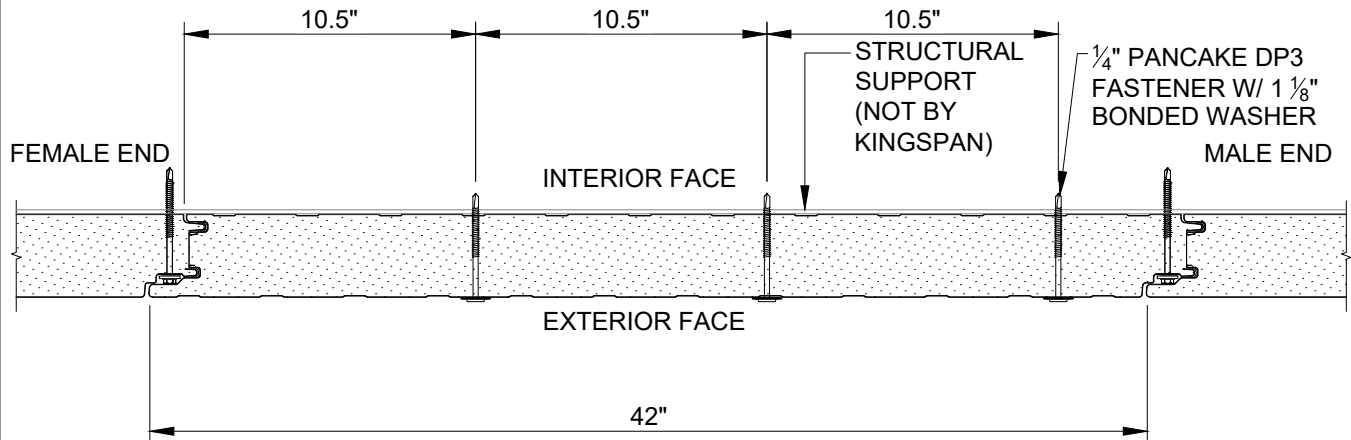
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FASTENING PATTERN 3B
 STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH
 DP3 FASTENERS W/O BONDED WASHER PER CLIP / 2 ADDITIONAL 1/4"
 PANCAKE DP3 FASTENERS W/ 1 1/8" BONDED WASHER SPACED AT 10.5"
 FROM FEMALE JOINT



FASTENING PATTERN 4B
 STANDARD SIDE JOINT FASTENING WITH 12 GA. 2-HOLE CLIP AND 1/4" HWH
 DP3 FASTENERS W/O BONDED WASHER PER CLIP / 3 ADDITIONAL 1/4"
 PANCAKE DP3 FASTENERS W/ 1 1/8" BONDED WASHER SPACED AT 10.5"
 FROM FEMALE JOINT

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FASTENING PATTERN
KS "3B" - "4B"

DETAIL #: CS-FP-07-KSV

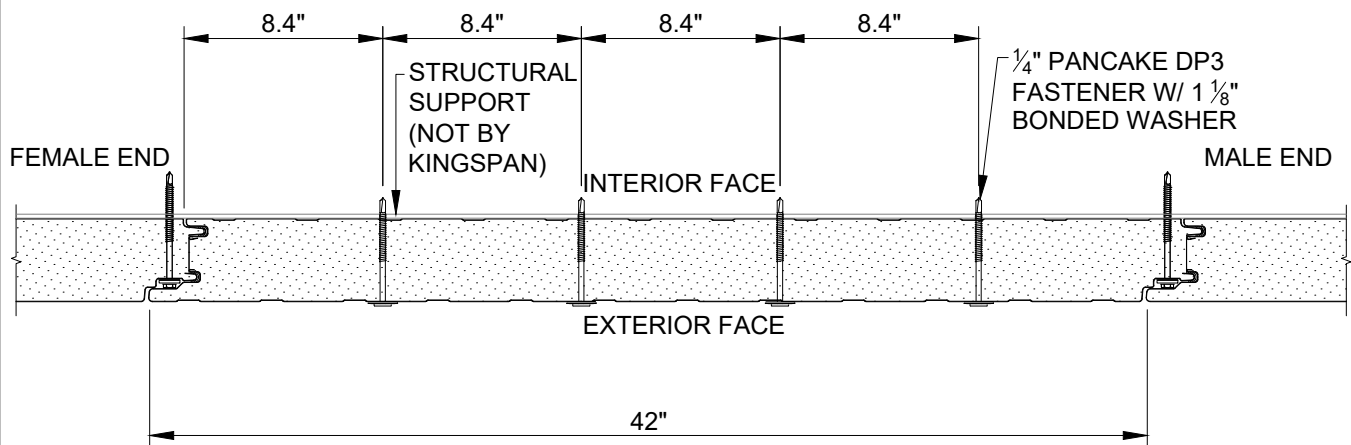
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FASTENING PATTERN 5B
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DP3 FASTENERS W/O BONDED WASHER PER CLIP / 4 ADDITIONAL 1/4"
PANCAKE DP3 FASTENERS W/ 1 1/8" BONDED WASHER SPACED AT 8.4"
FROM FEMALE JOINT

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FASTENING PATTERN
KS "5B"

DETAIL #: CS-FP-08-KSV

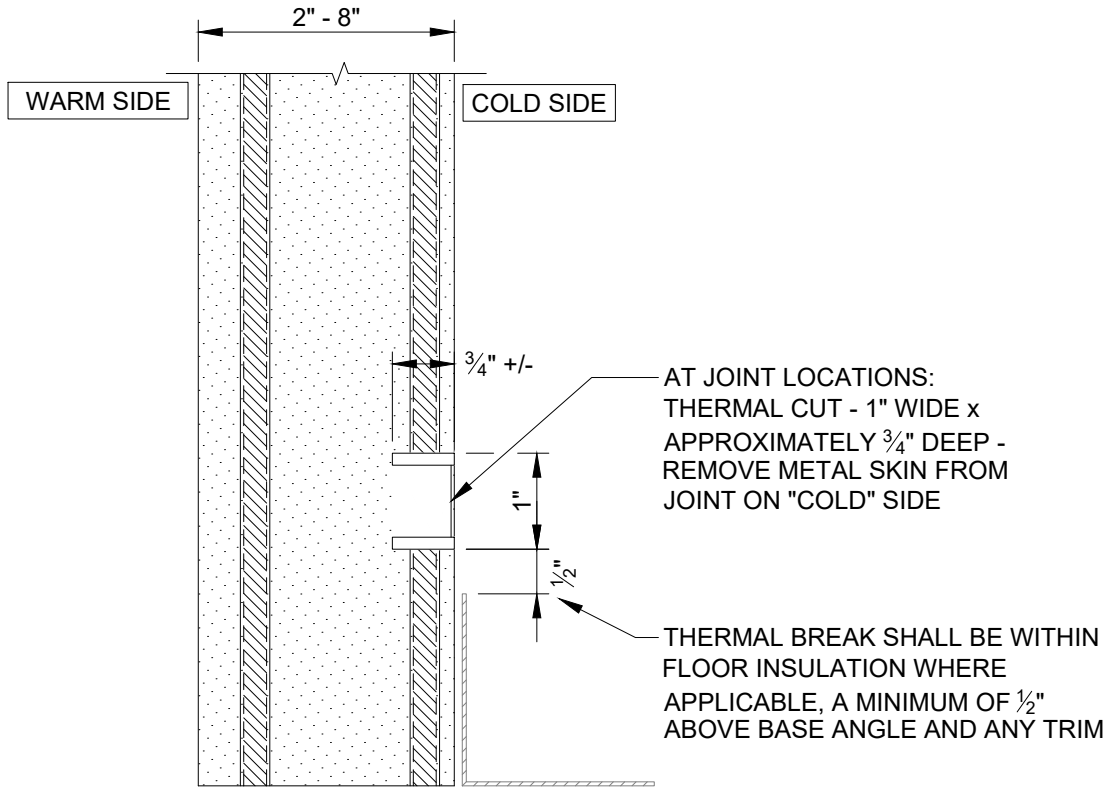
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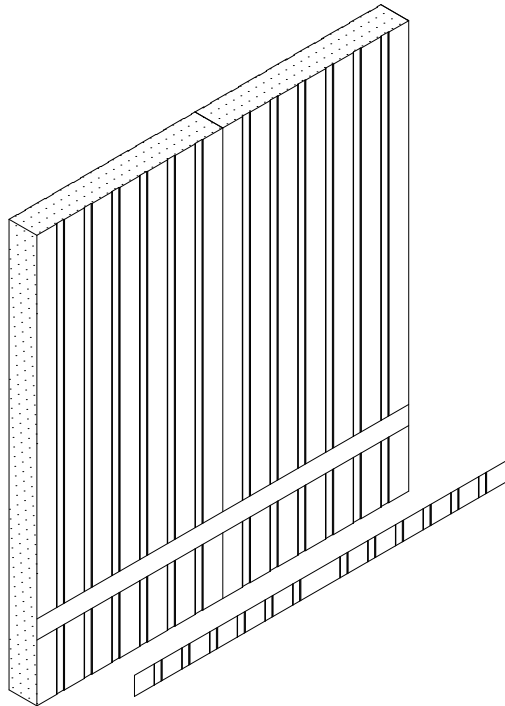
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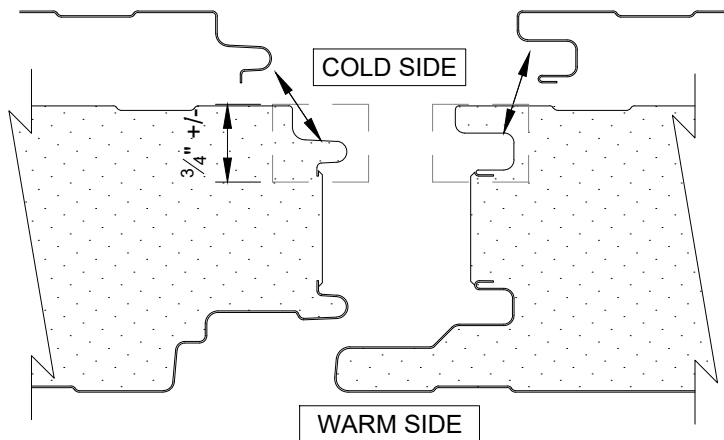
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THERMAL BREAK SECTION CUT



REMOVE METAL SKIN, BOTH MALE AND FEMALE
SIDE OF PANEL, FROM JOINT ON "COLD" SIDE



THERMAL BREAK PLAN CUT

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KS THERMAL CUT AT JOINT

DETAIL #: CS-TC-01-KSV

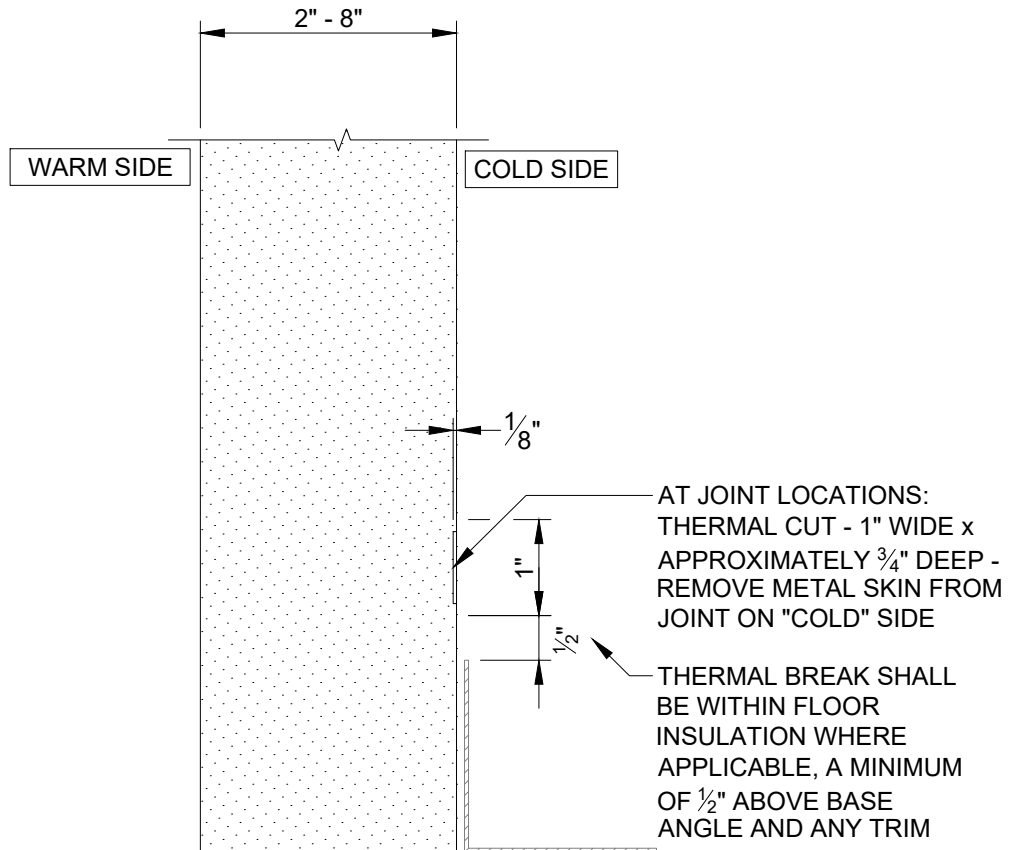
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KS THERMAL CUT AT FIELD

DETAIL #: CS-TC-02-KSV

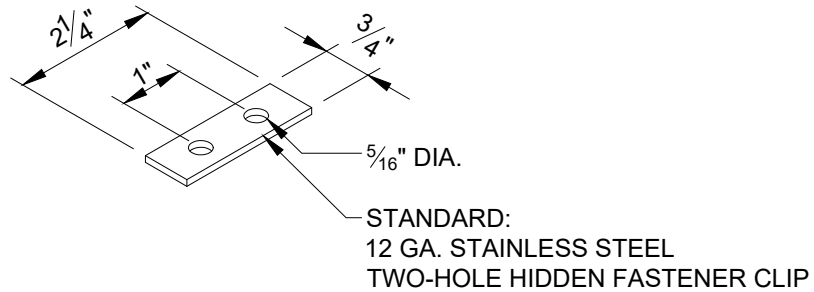
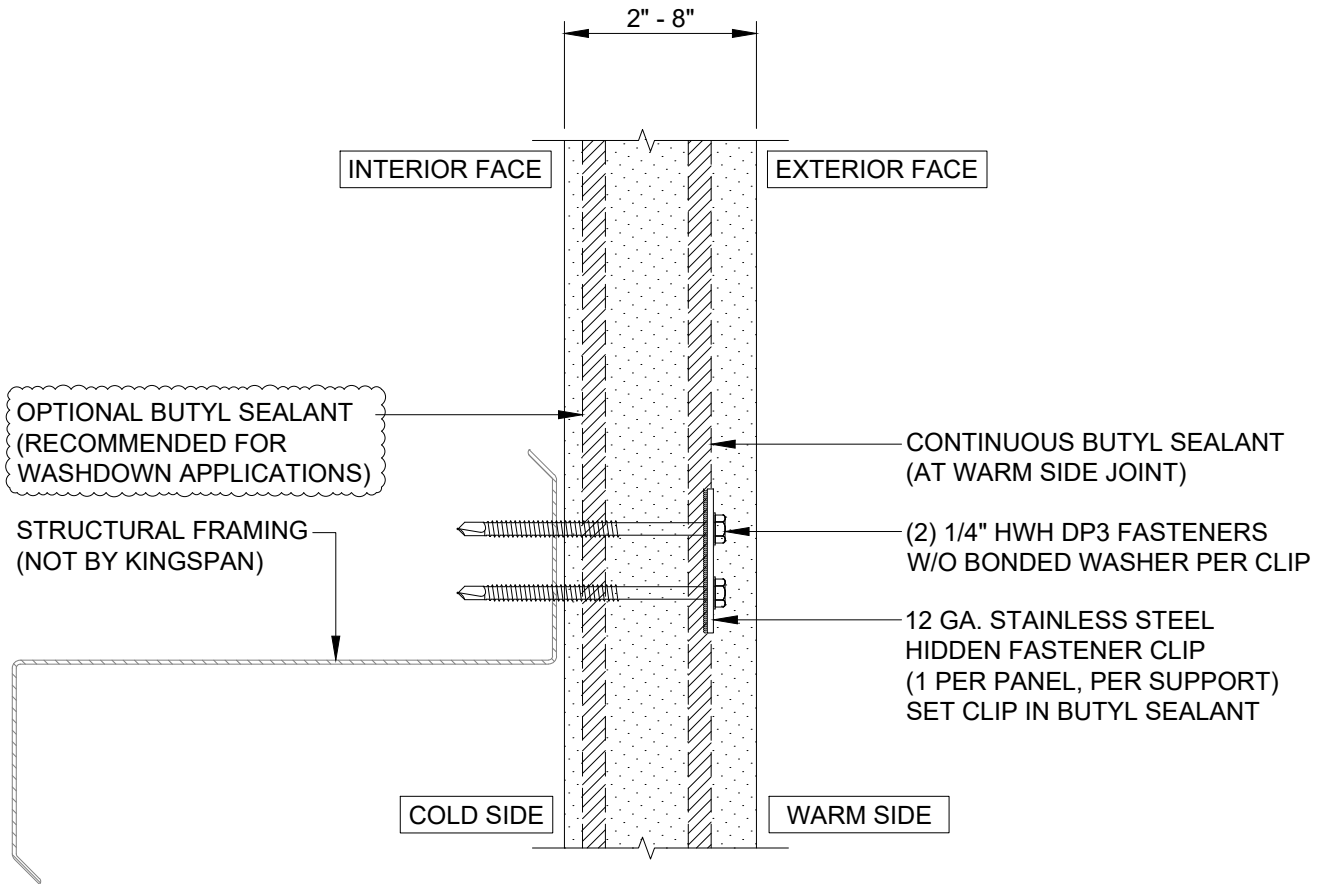
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CONTACT KINGSPAN TECHNICAL SERVICES FOR
PANEL ALLOWABLE SPANS AND FASTENING PATTERNS

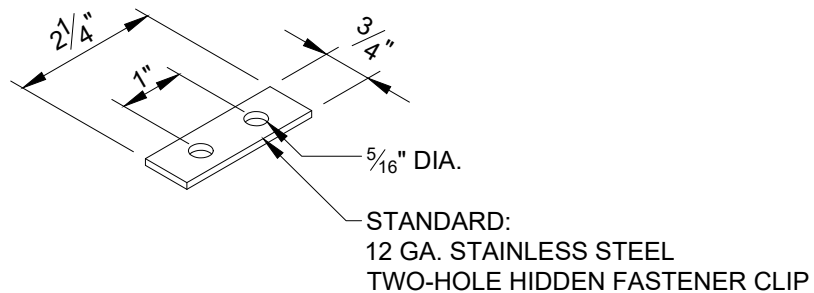
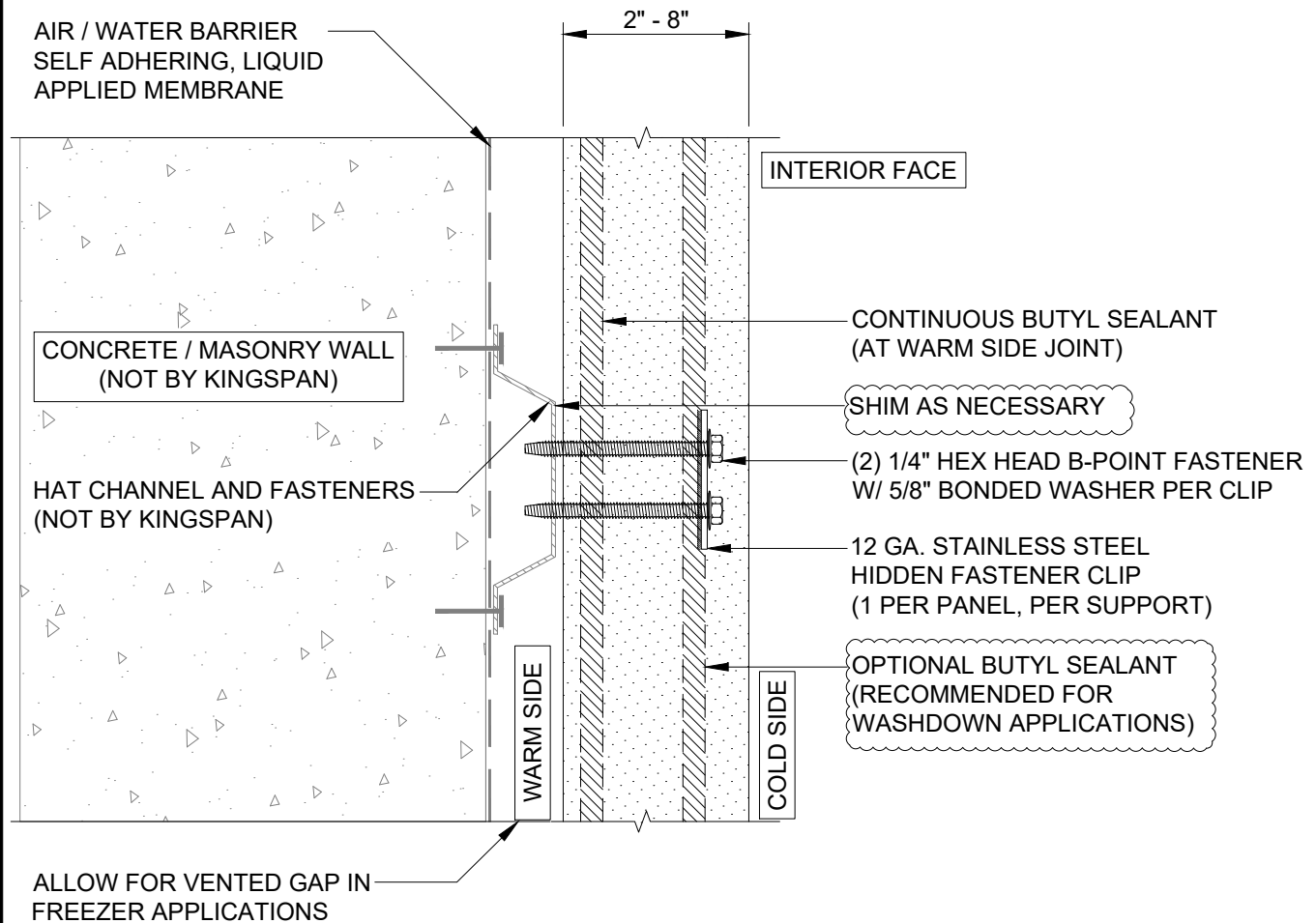
REVISION	
REVISION #	DATE
1	8/5/26

STANDARD JOINT FASTENING
STEEL FRAMING

DETAIL #: CS-JF-01-KSV
RELEASE: 2026
REGION: NORTH AMERICA
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CONTACT KINGSPAN TECHNICAL SERVICES FOR
PANEL ALLOWABLE SPANS AND FASTENING PATTERNS

REVISION	
REVISION #	DATE
1	8/5/26

STANDARD JOINT FASTENING
HAT CHANNEL ON CMU

DETAIL #: CS-JF-02-KSV

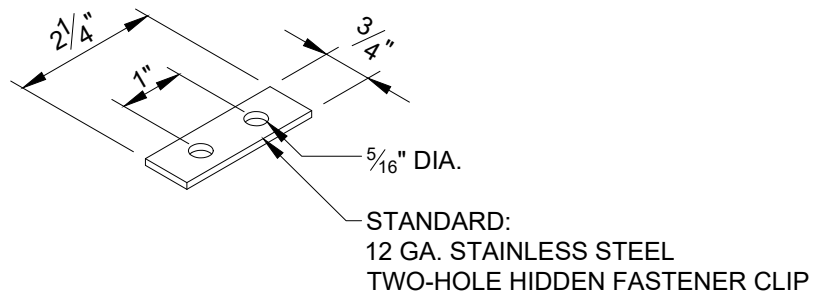
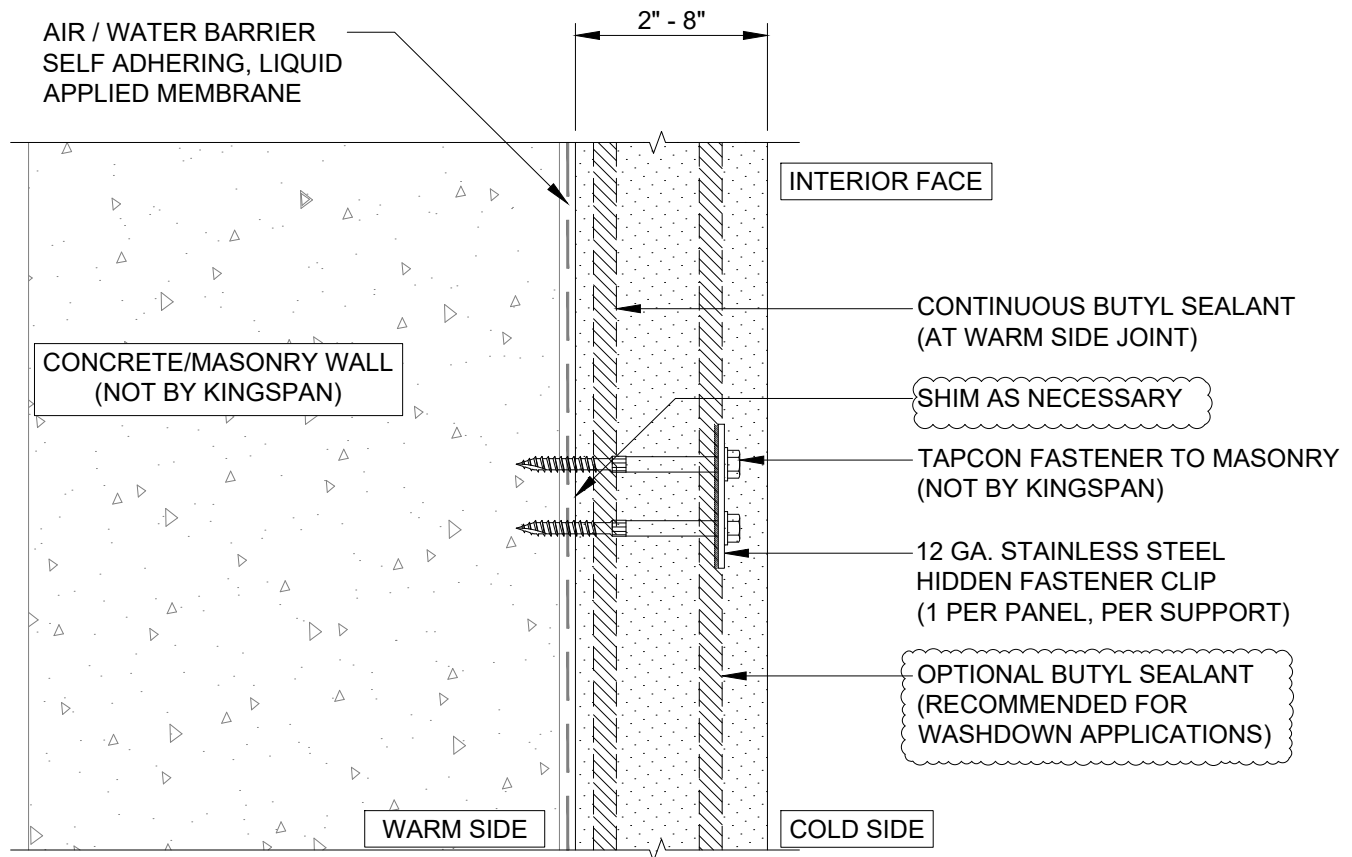
RELEASE: 2026

REGION: NORTH AMERICA

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CONTACT KINGSPAN TECHNICAL SERVICES FOR
PANEL ALLOWABLE SPANS AND FASTENING PATTERNS

REVISION	
REVISION #	DATE
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STANDARD JOINT FASTENING
CMU

DETAIL #: CS-JF-03-KSV

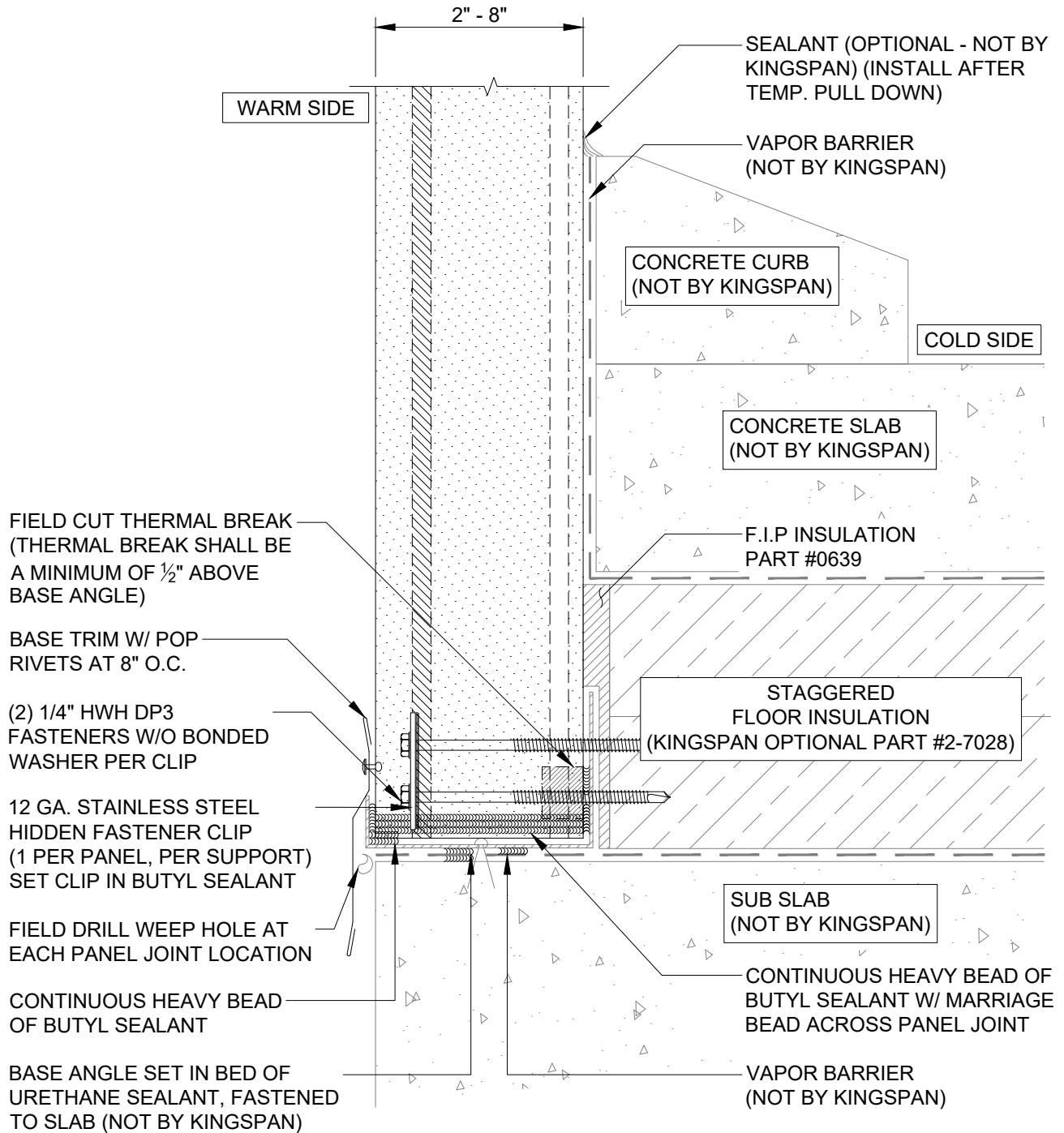
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



- NOTES: 1) BASE ANGLE MUST BE FASTENED SECURELY TO SLAB TO RESIST LATERAL LOAD APPLIED BY PANEL
- 2) BASE CHANNEL GAUGE TO BE DETERMINED BY PROJECT ENGINEER OF RECORD
- 3) FLOOR INSULATION REQUIRED FOR FREEZER APPLICATIONS
- 4) PANEL FASTENING PATTERN WILL BE DETERMINED BY KINGSPAN TECHNICAL SERVICES

REVISION	
REVISION #	DATE
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BASE DETAIL
INSULATED SLAB BASE CHANNEL

DETAIL #: CS-BS-01-KSV

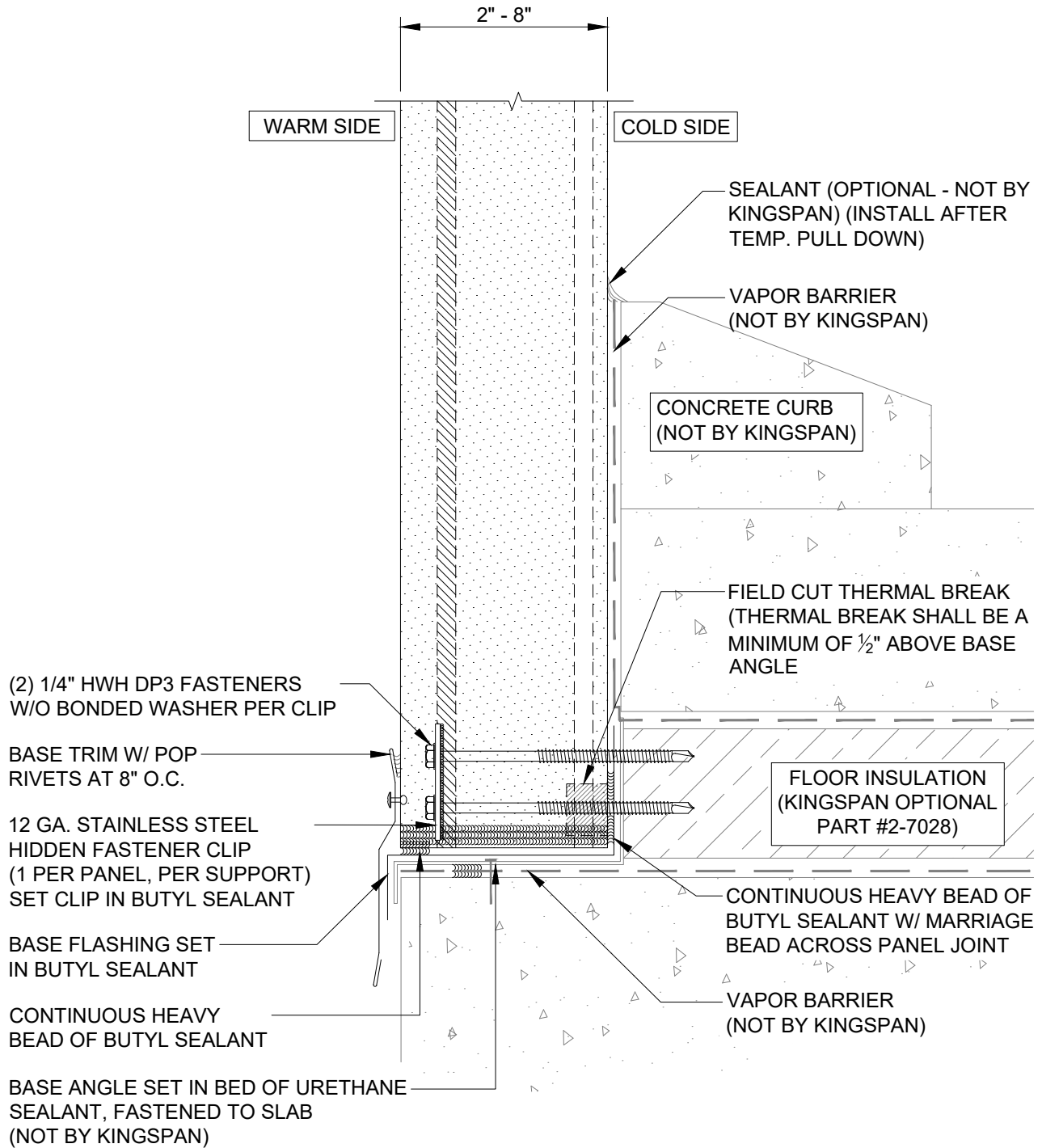
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



- NOTES: 1) BASE ANGLE MUST BE FASTENED SECURELY TO SLAB TO RESIST LATERAL LOAD APPLIED BY PANEL
- 2) BASE CHANNEL GAUGE TO BE DETERMINED BY PROJECT ENGINEER OF RECORD
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- 4) PANEL FASTENING PATTERN WILL BE DETERMINED BY KINGSPAN TECHNICAL SERVICES

REVISION	
REVISION #	DATE
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BASE DETAIL
INSULATED SLAB "Z" BASE ANGLE

DETAIL #: CS-BS-02-KSV

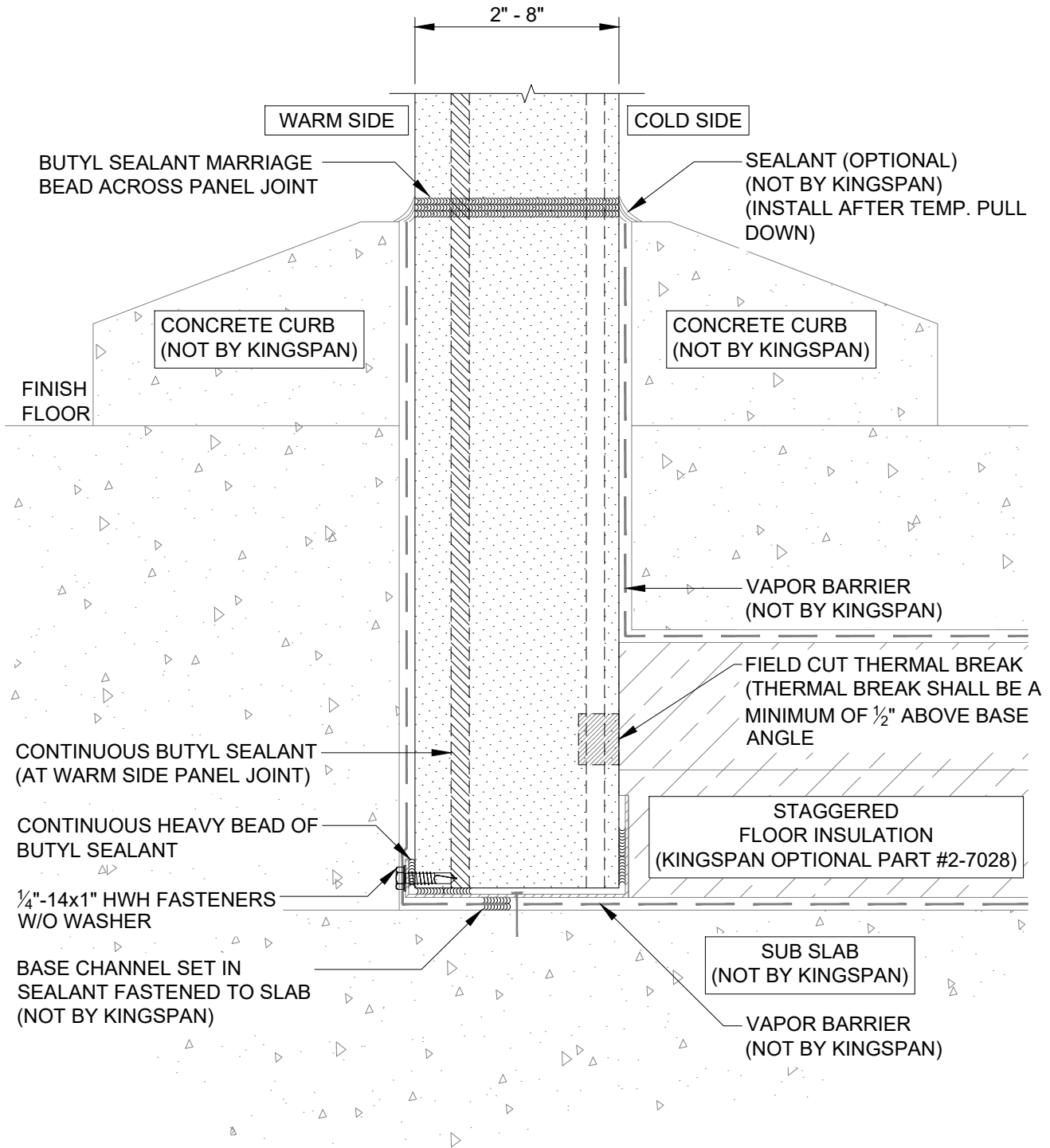
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



NOTES: 1) BASE CHANNEL MUST BE FASTENED SECURELY TO SLAB
2) ANGLE IRON MAY BE USED IN LIEU OF CHANNEL

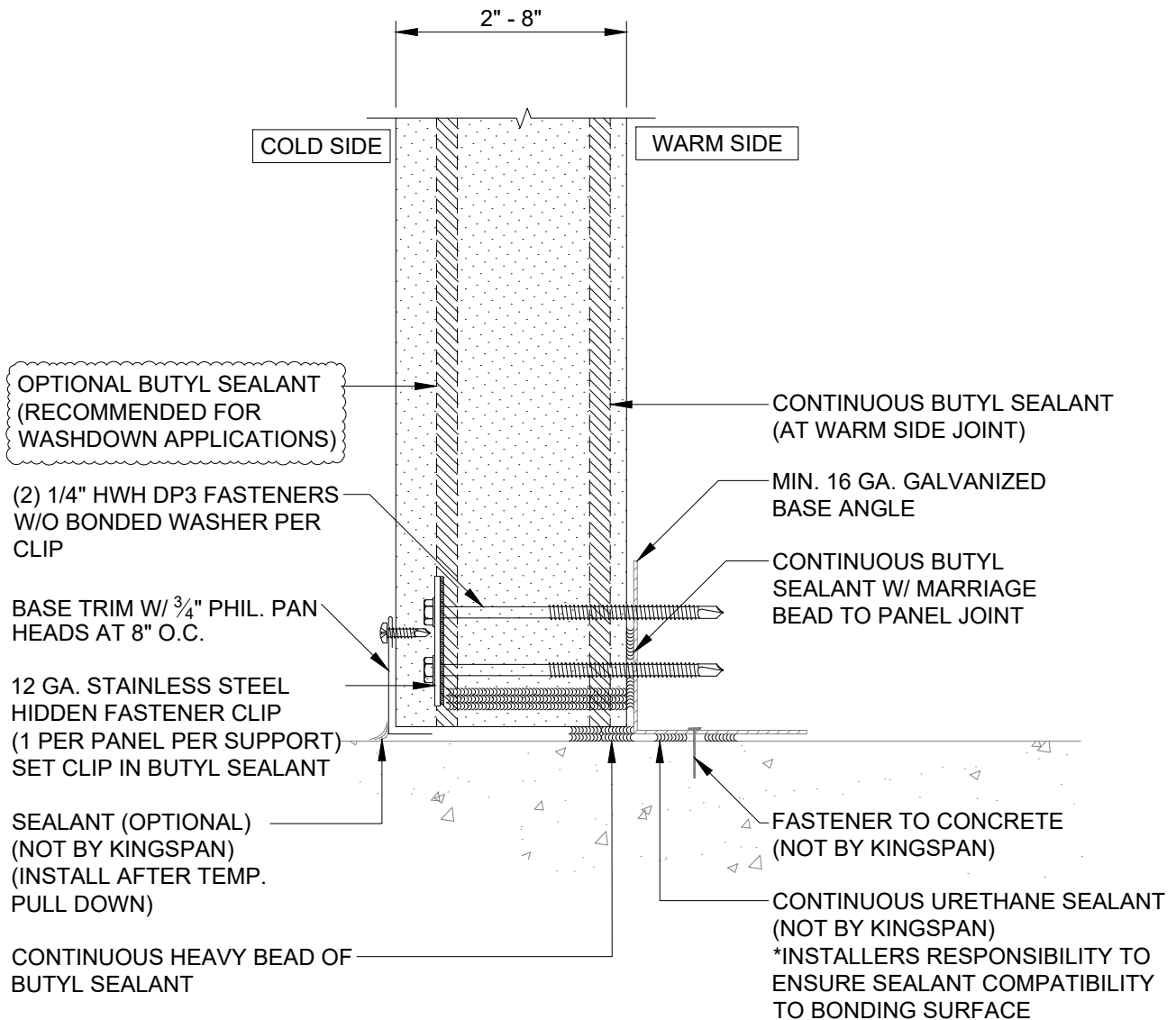
REVISION	
REVISION #	DATE
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BASE DETAIL
PARTITION WALL
NON-INSULATED / INSULATED FLOOR

DETAIL #: CS-BS-03-KSV
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THIS DETAIL ASSUMES MINIMAL TEMPERATURE DIFFERENTIAL ON EITHER SIDE OF PANEL

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BASE DETAIL
PARTITION LINER PANEL

DETAIL #: CS-BS-04-KSV

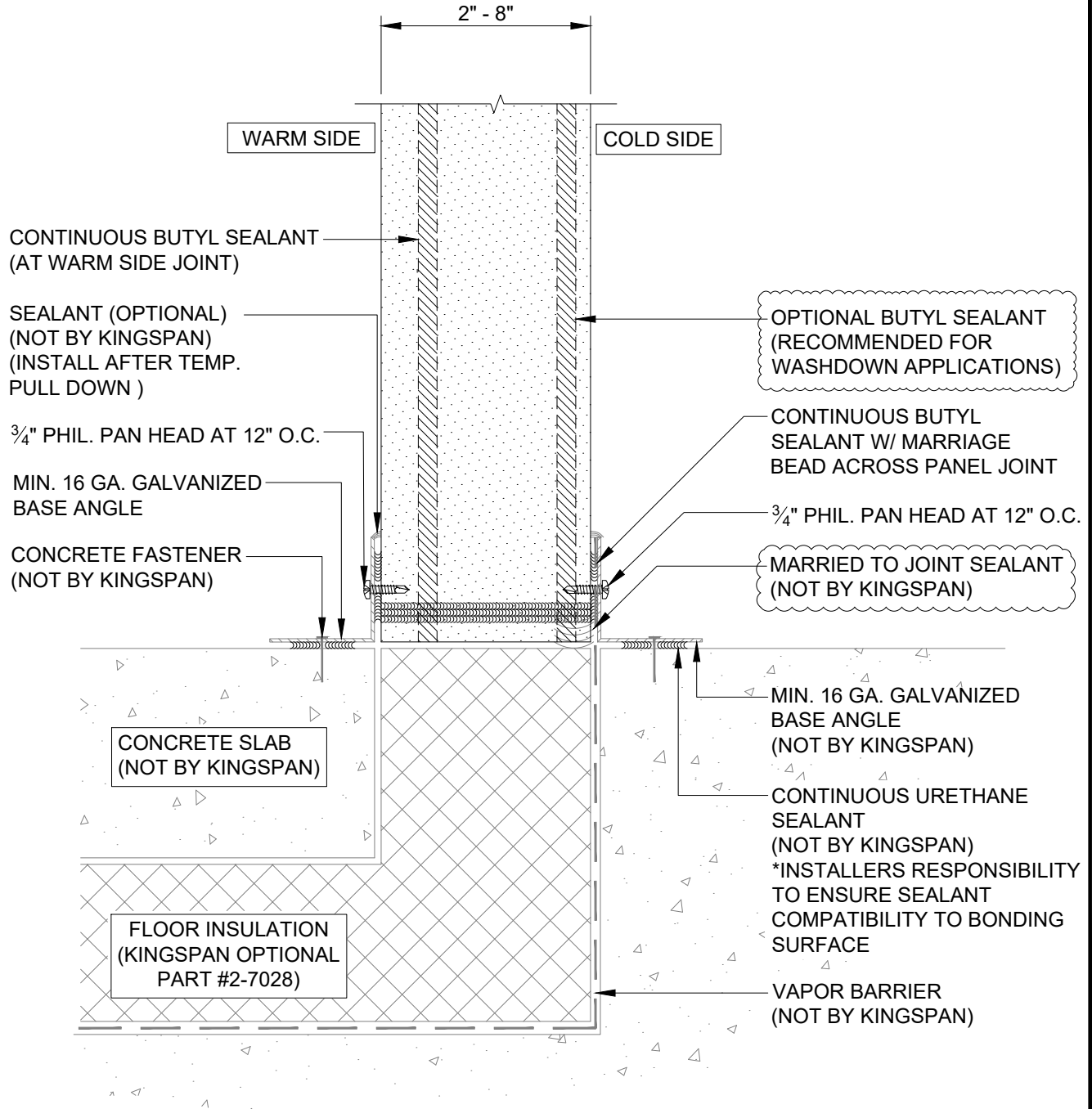
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



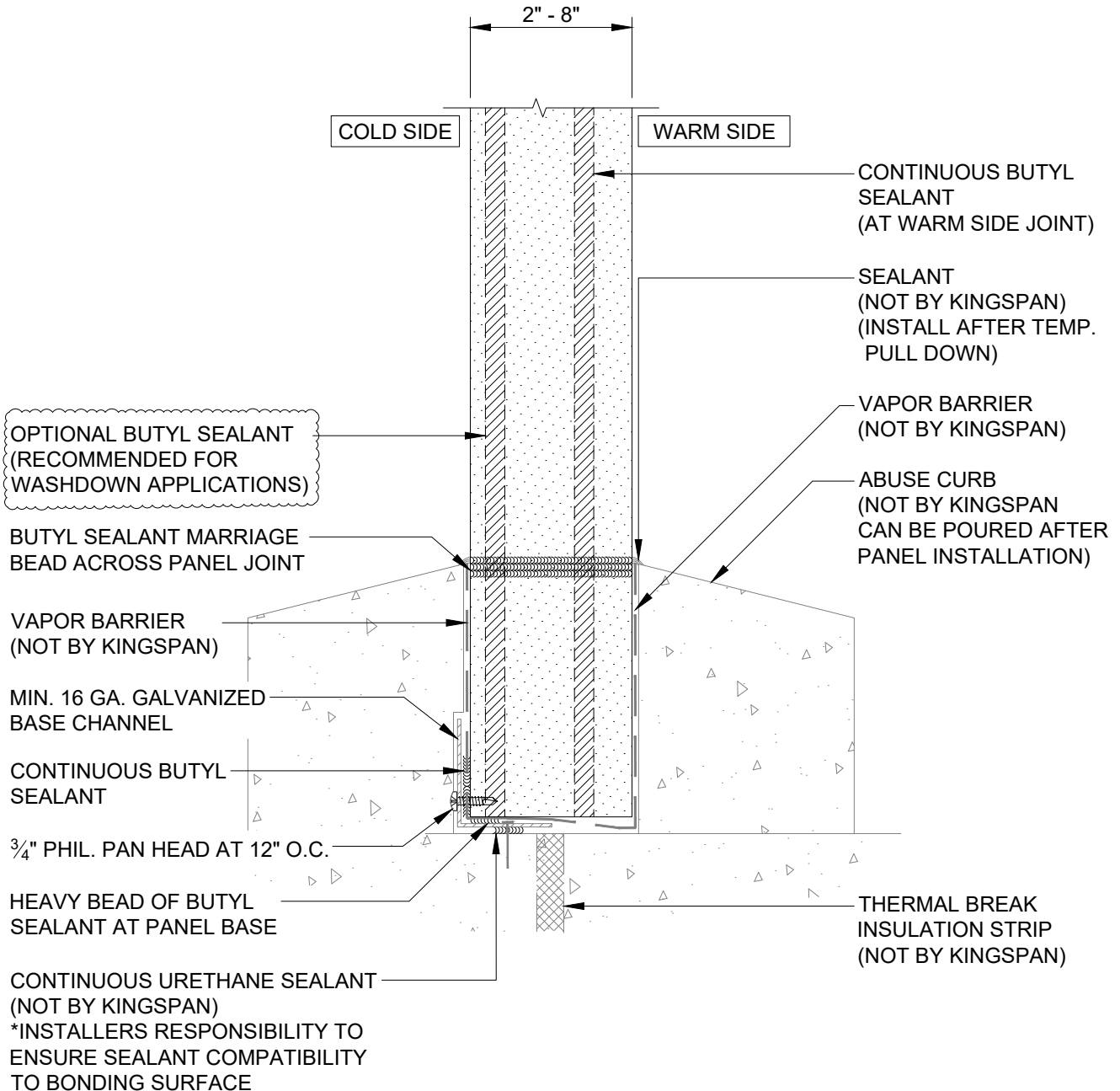
REVISION	
REVISION #	DATE
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BASE DETAIL
PARTITION
W/ INSULATED FLOOR

DETAIL #: CS-BS-05-KSV
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BASE DETAIL
PARTITION W/ CURB
THERMAL BREAK IN SLAB

DETAIL #: CS-BS-06-KSV

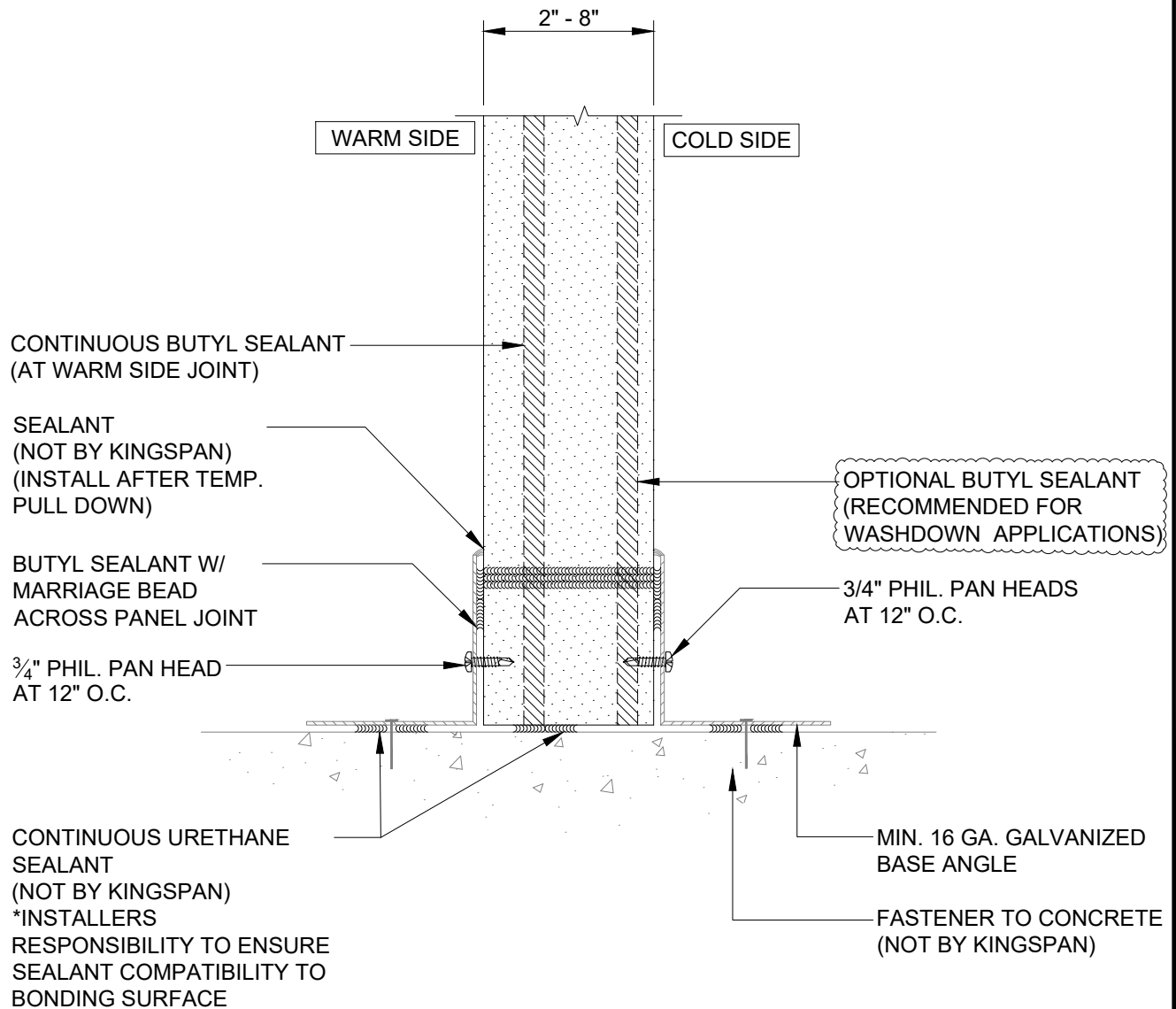
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



THIS DETAIL ASSUMES MINIMAL TEMPERATURE DIFFERENTIAL ON EITHER SIDE OF PANEL

REVISION	
REVISION #	DATE
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BASE DETAIL
PARTITION WALL

DETAIL #: CS-BS-07-KSV

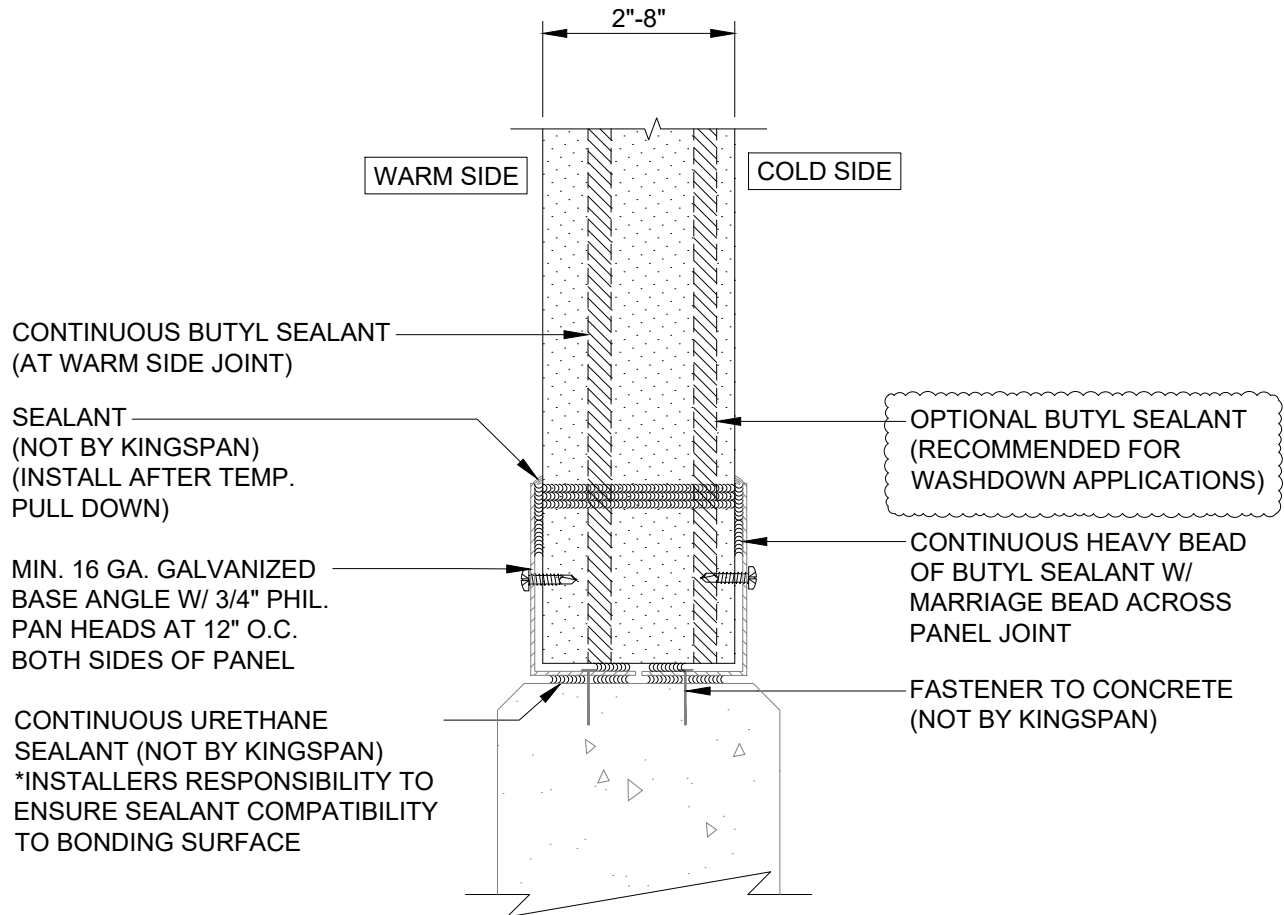
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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REVISION #	DATE
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BASE DETAIL
PARTITION WALL ON CURB

DETAIL #: CS-BS-08-KSV

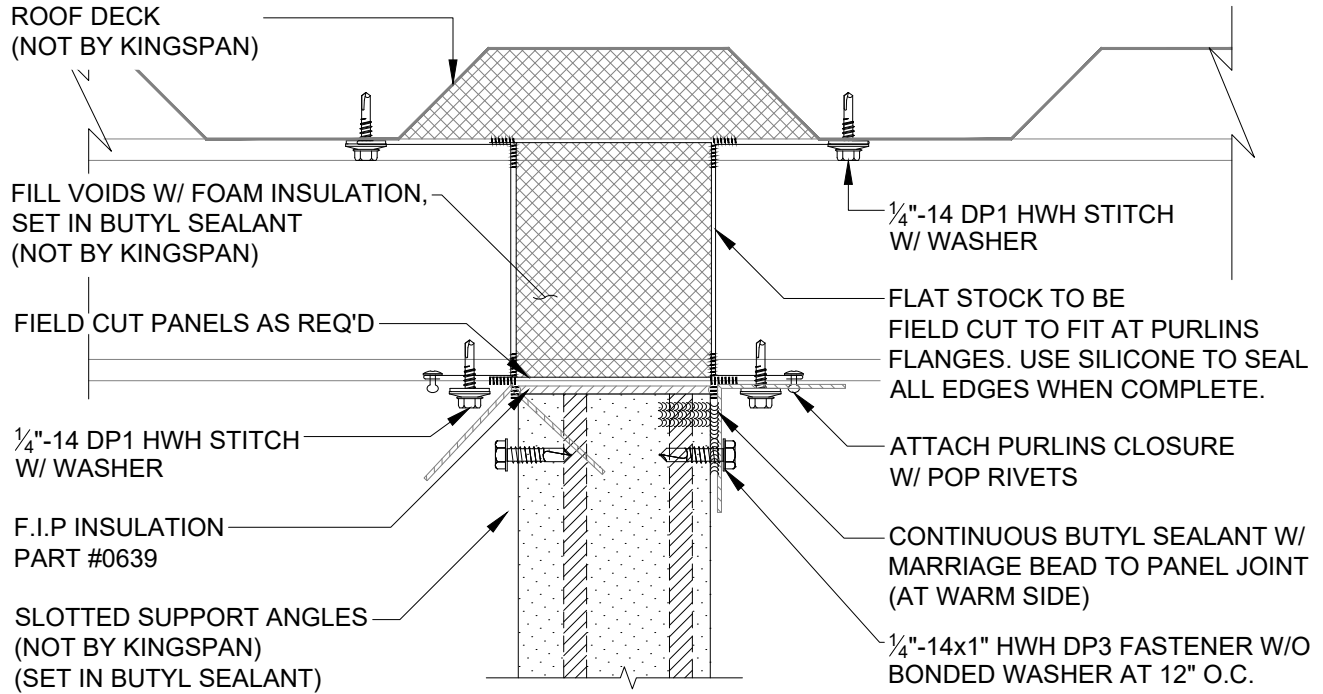
RELEASE: 2026

REGION: NORTH AMERICA

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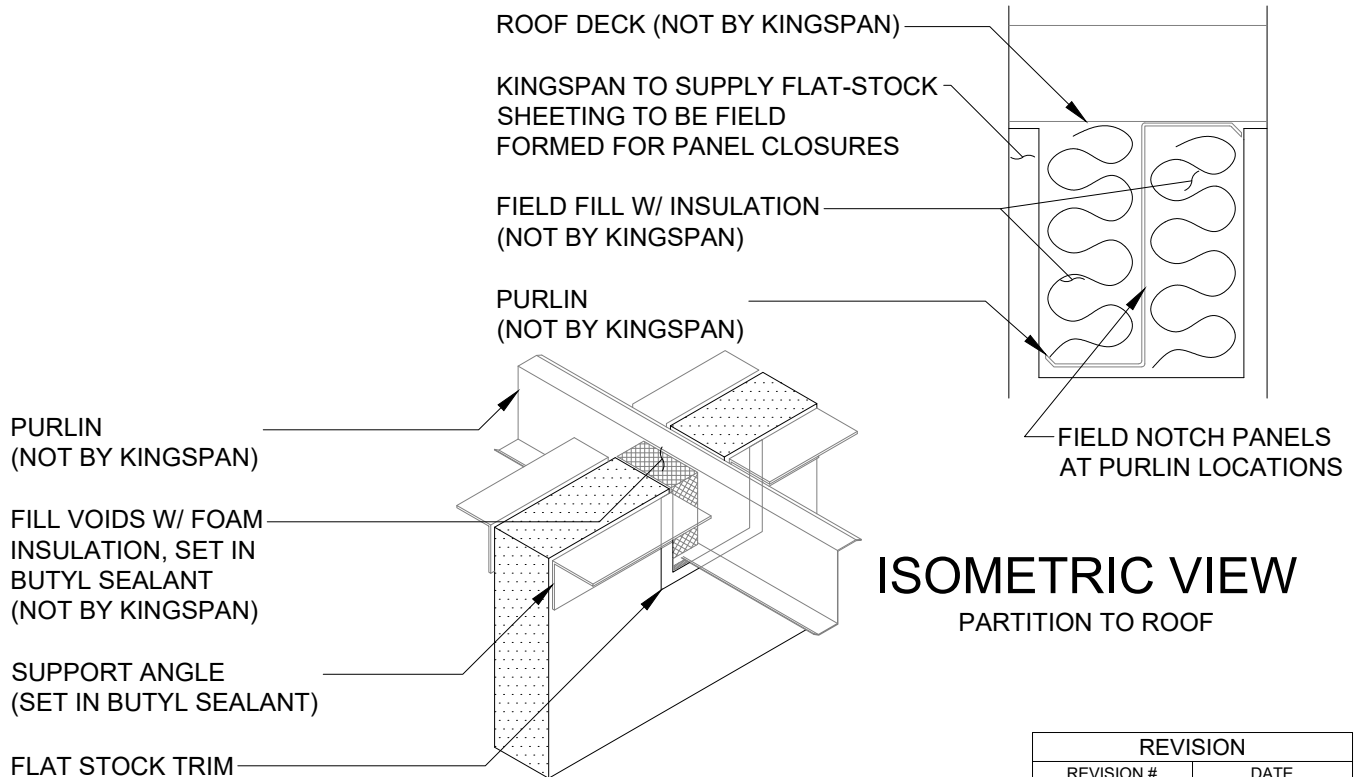


KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



PARTITION TO ROOF (WITH FOAM INSULATION)

(PERPENDICULAR TO PURLIN)



ISOMETRIC VIEW

PARTITION TO ROOF

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PARTITION WALL TO FLOOR / ROOF

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

COMPRESSIBLE INSULATION
(NOT BY KINGSPAN)

ROOF DECK
(NOT BY KINGSPAN)

FAB LOK FASTENERS
AS REQUIRED

F.I.P INSULATION
PART #0639

1/4"-14x1" HWH DP3
FASTENER W/O BONDED
WASHER AT 12" O.C.

PURLIN
(NOT BY KINGSPAN)

REFER TO CS-PR-01-KSV FOR
ISOMETRIC VIEWS

PARTITION TO ROOF (PERPENDICULAR TO PURLIN)

ROOF DECK (NOT BY KINGSPAN)

KINGSPAN TO SUPPLY FLAT-STOCK
SHEETING TO BE FIELD
FORMED FOR PANEL CLOSURES

FIELD FILL W/ INSULATION
(NOT BY KINGSPAN)

PURLIN
(NOT BY KINGSPAN)

PURLIN
(NOT BY KINGSPAN)

FILL VOIDS W/ FOAM
INSULATION, SET IN
BUTYL SEALANT
(NOT BY KINGSPAN)

SUPPORT ANGLE
(SET IN BUTYL SEALANT)

FLAT STOCK TRIM

CONTINUOUS BUTYL
SEALANT W/ MARRIAGE
BEAD TO PANEL JOINT
(AT WARM SIDE)

SLOTTED SUPPORT ANGLES
(NOT BY KINGSPAN)
(SET IN BUTYL SEALANT)

ISOMETRIC VIEW PARTITION TO ROOF

FIELD NOTCH PANELS
AT PURLIN LOCATIONS

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REVISION #	DATE
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PARTITION WALL TO FLOOR / ROOF
THROUGH FRAMING

DETAIL #: CS-PR-02-KSV

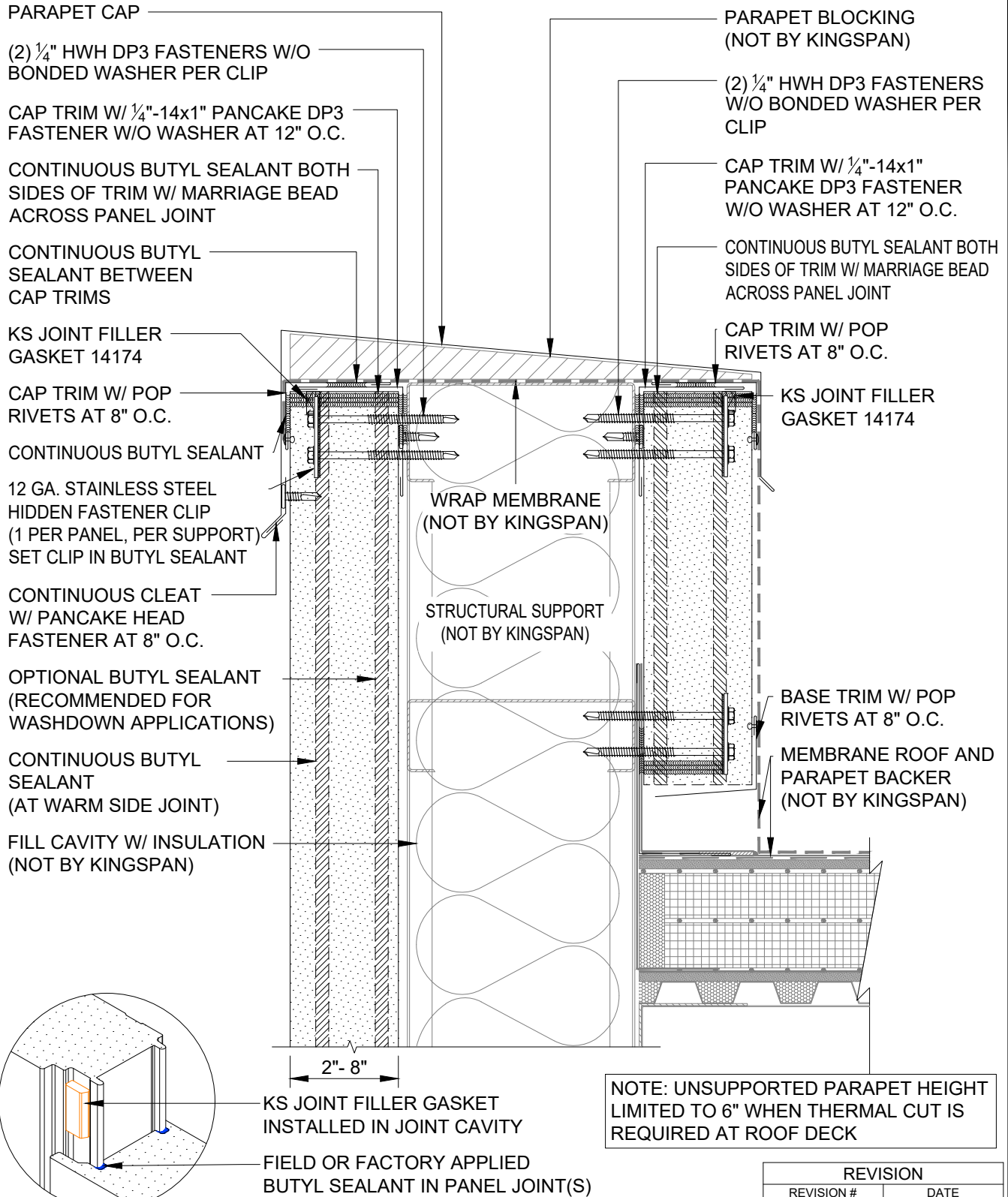
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REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



SUPPORTED PARAPET
W/ IMP BACKER

DETAIL #: CS-PR-03-KSV

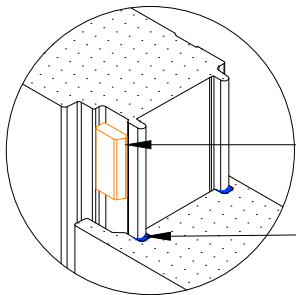
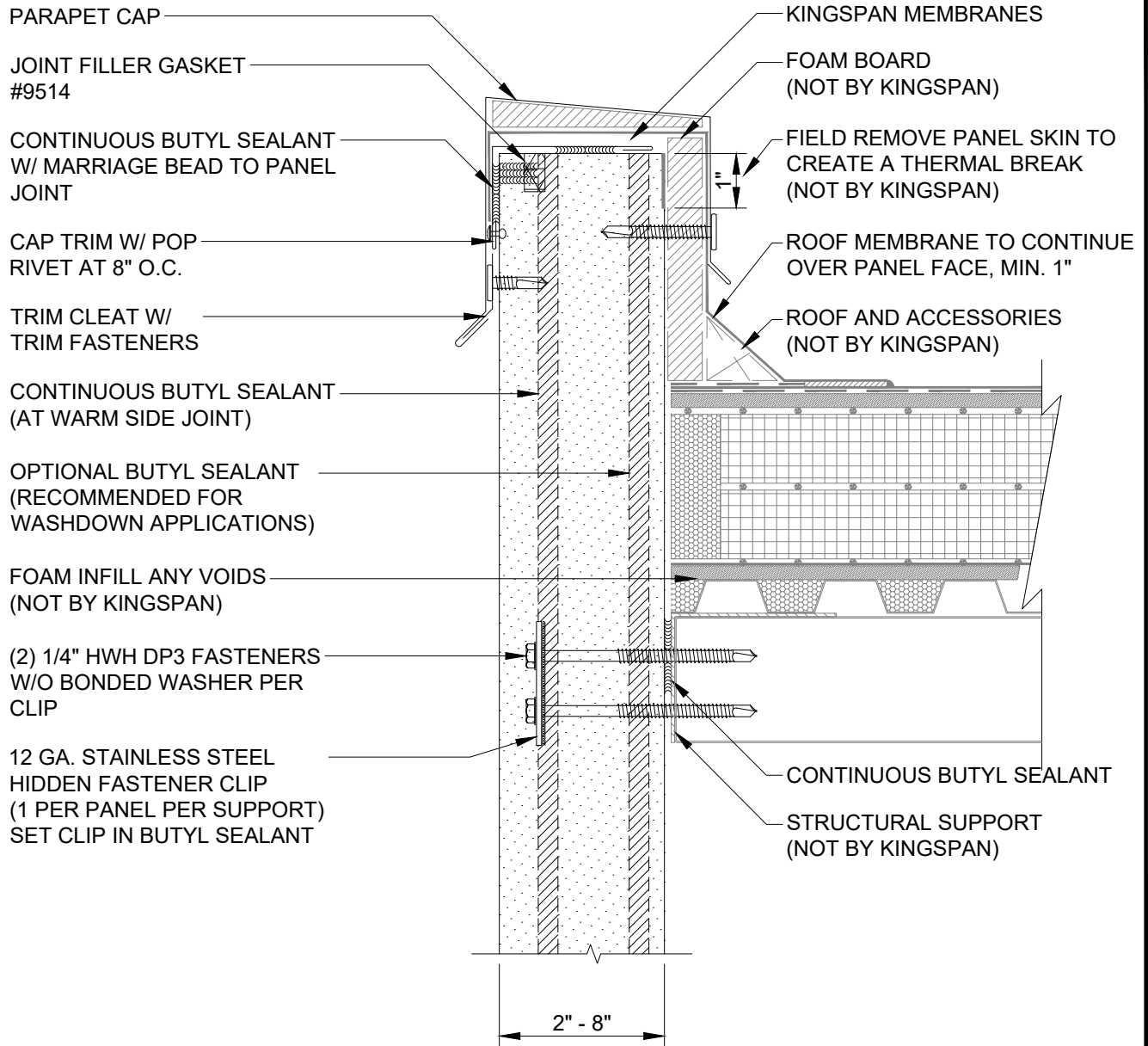
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



KS JOINT FILLER GASKET
INSTALLED IN JOINT CAVITY

FIELD OR FACTORY APPLIED
BUTYL SEALANT IN PANEL JOINT(S)

NOTE: UNSUPPORTED PARAPET HEIGHT
LIMITED TO 6" WHEN THERMAL CUT IS
REQUIRED AT ROOF DECK

REVISION

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UNSUPPORTED PARAPET

DETAIL #: CS-PR-04-KSV

RELEASE: 2026

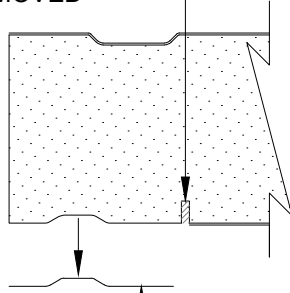
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

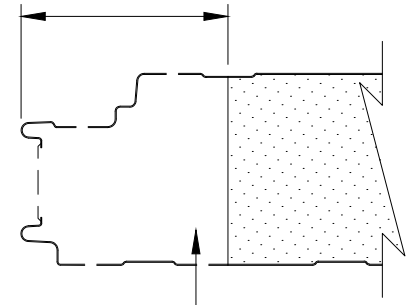
THERMAL CUT PANEL FACE
SUFFICIENT ENOUGH FOR
METAL TO BE REMOVED



REMOVE METAL SKIN FROM
THERMAL CUT TO EXTENT
OF CORNER CONDITION

2" PANEL - REMOVE 1"
2.5" PANEL - REMOVE 1.25"
3" PANEL - REMOVE 1.5"
4" PANEL - REMOVE 2"
5" PANEL - REMOVE 2.5"
6" PANEL - REMOVE - 3"

WILL VARY WITH
FIELD CONDITION



WILL VARY WITH
FIELD CONDITION

FIELD CUT

VAPOR BARRIER
(NOT BY KINGSPAN)
(GREENGUARD BUTYL FLASHING
PART #2-7070 OPTIONAL BY KINGSPAN)

FIELD CUT THERMAL BREAK

REMOVE METAL SKIN FROM
THERMAL CUT TO PANEL END,
 $\frac{1}{2}$ OF PANEL THICKNESS

MIN. $\frac{1}{4}$ " GAP FOR
F.I.P. INSTALLATION

$\frac{1}{4}$ " PANCAKE DP3 FASTENERS
W/ 1 $\frac{1}{8}$ " BONDED WASHER
(AS REQUIRED FOR WIND
LOAD)

OUTSIDE CORNER TRIM
W/ POP RIVETS AT 8" O.C.

CONTINUOUS BUTYL
TAPE

2" - 8"

CONTINUOUS BUTYL
SEALANT

ATTACHMENT CLIP
(NOT BY KINGSPAN)

INSIDE CORNER TRIM
W/ $\frac{3}{4}$ " PHIL. PAN
HEAD AT 8" O.C.

HORIZONTAL SUPPORT
(NOT BY KINGSPAN)

WARM SIDE

COLD SIDE

REVISION

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OUTSIDE CORNER
FLAT TRIM

DETAIL #: CS-OC-01-KSV

RELEASE: 2026

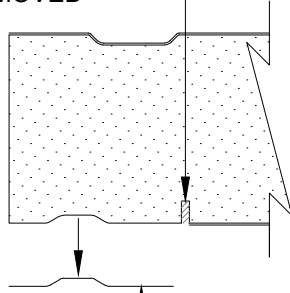
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

THERMAL CUT PANEL FACE
SUFFICIENT ENOUGH FOR
METAL TO BE REMOVED

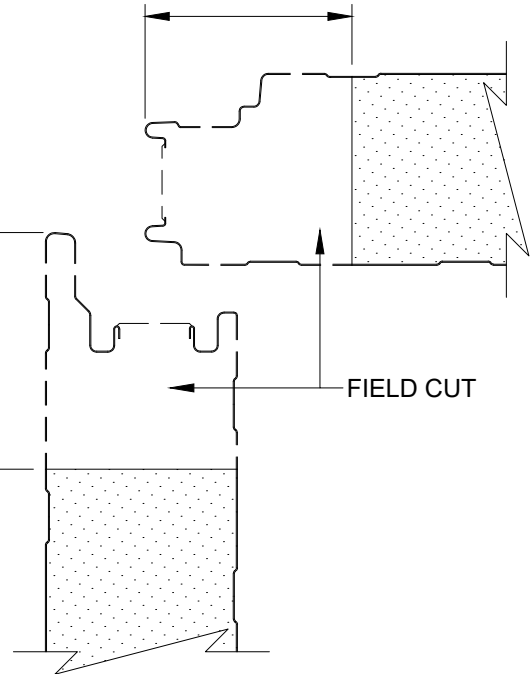


REMOVE METAL SKIN FROM
THERMAL CUT TO EXTENT
OF CORNER CONDITION

2" PANEL - REMOVE 1"
2.5" PANEL - REMOVE 1.25"
3" PANEL - REMOVE 1.5"
4" PANEL - REMOVE 2"
5" PANEL - REMOVE 2.5"
6" PANEL - REMOVE - 3"

WILL VARY WITH
FIELD CONDITION

WILL VARY WITH
FIELD CONDITION



FIELD CUT

VAPOR BARRIER
(NOT BY KINGSPAN)
(GREENGUARD BUTYL FLASHING
PART #2-7070 OPTIONAL BY KINGSPAN)

FIELD CUT THERMAL BREAK

REMOVE METAL SKIN FROM
THERMAL CUT TO PANEL END,
 $\frac{1}{2}$ OF PANEL THICKNESS

MIN. $\frac{1}{4}$ " GAP FOR
F.I.P. INSTALLATION

PROFIED OUTSIDE
CORNER TRIM W/ POP
RIVETS AT 8" O.C.

$\frac{1}{4}$ " HWH DP3 FASTENERS
W/ 1 $\frac{1}{8}$ " BONDED WASHER
(AS REQUIRED FOR WIND
LOAD)

CONTINUOUS BUTYL
TAPE

CONTINUOUS BUTYL
SEALANT

ATTACHMENT CLIP
(NOT BY KINGSPAN)

INSIDE CORNER TRIM
W/ PHIL. PAN HEAD
AT 8" O.C.

HORIZONTAL SUPPORT
(NOT BY KINGSPAN)

WARM SIDE

COLD SIDE

2" - 8"

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OUTSIDE CORNER
PROFIED TRIM

DETAIL #: CS-OC-02-KSV

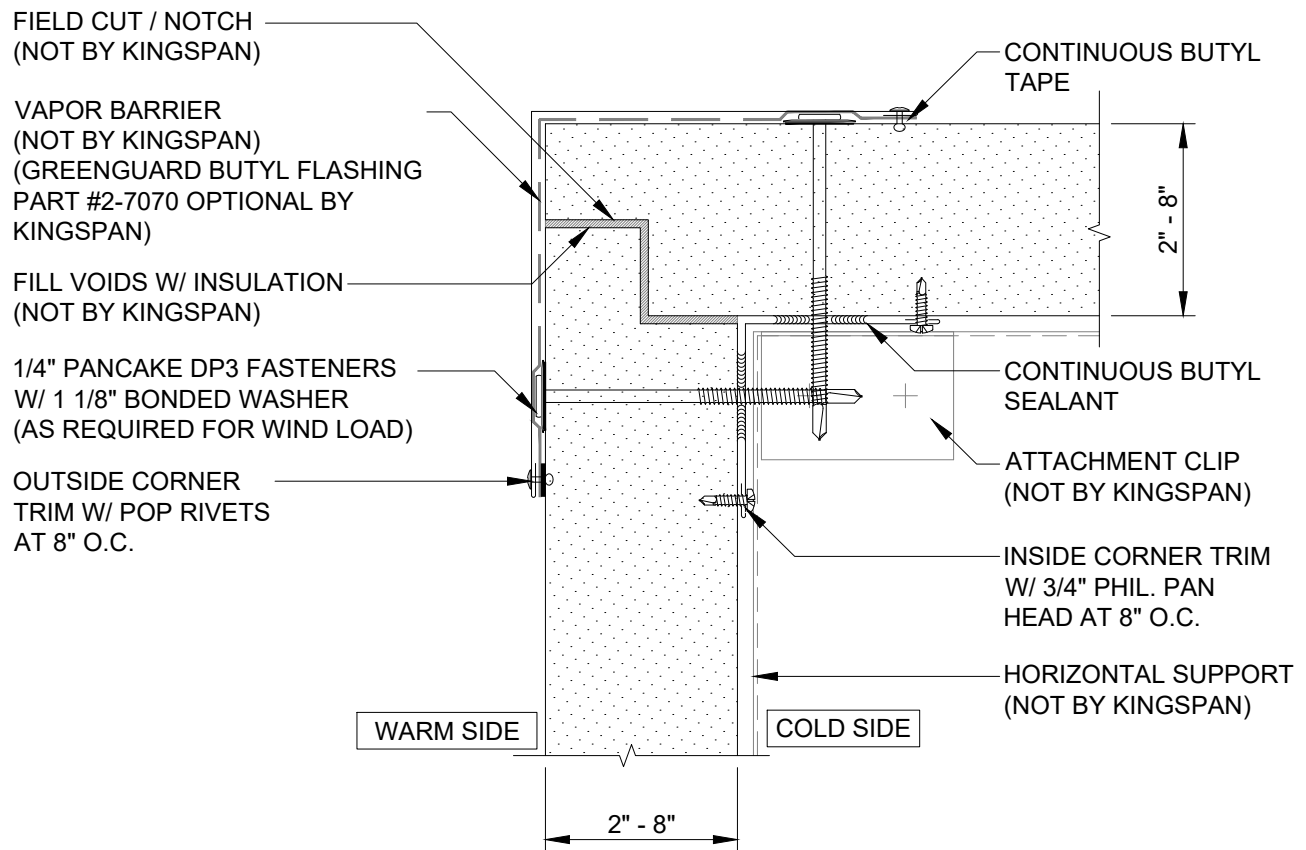
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



ALTERNATE FIELD CUT / NOTCHED CORNER

FASTENERS AND EXTERIOR TRIM NOT SHOWN FOR CLARITY, TRIMS AND FASTENERS ARE REQUIRED

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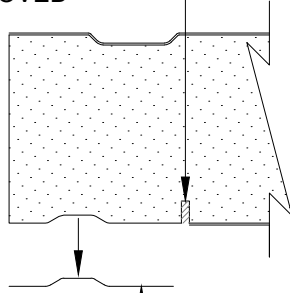
OUTSIDE CORNER
ALT. FIELD CUT

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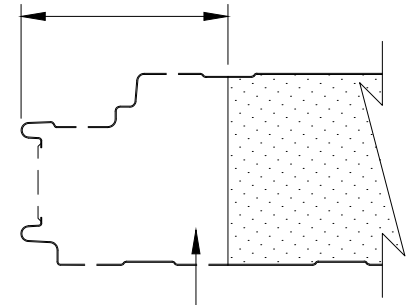
THERMAL CUT PANEL FACE
SUFFICIENT ENOUGH FOR
METAL TO BE REMOVED



REMOVE METAL SKIN FROM
THERMAL CUT TO EXTENT
OF CORNER CONDITION

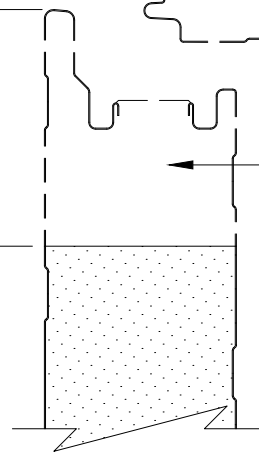
- 2" PANEL - REMOVE 1"
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- 3" PANEL - REMOVE 1.5"
- 4" PANEL - REMOVE 2"
- 5" PANEL - REMOVE 2.5"
- 6" PANEL - REMOVE - 3"

WILL VARY WITH
FIELD CONDITION



WILL VARY WITH
FIELD CONDITION

FIELD CUT



FIELD CUT THERMAL BREAK

REMOVE METAL SKIN FROM
THERMAL CUT TO PANEL END,
 $\frac{1}{2}$ OF PANEL THICKNESS

MIN. $\frac{1}{4}$ " GAP FOR
F.I.P. INSTALLATION

OUTSIDE CORNER TRIM
W/ PHIL. PAN HEAD
AT 8" O.C

1/4" PANCAKE DP3 FASTENERS
W/ 1 1/8" BONDED WASHER
(AS REQUIRED FOR WIND
LOAD)

CONTINUOUS BUTYL
SEALANT

HORIZONTAL SUPPORT
(NOT BY KINGSPAN)

COLD SIDE

WARM SIDE

VAPOR BARRIER
(NOT BY KINGSPAN)
(GREENGUARD BUTYL
FLASHING PART #2-7070
OPTIONAL BY KINGSPAN)

INSIDE CORNER TRIM W/ POP
RIVETS AND 8" O.C.

CONTINUOUS BUTYL TAPE

2" - 8"

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INSIDE CORNER
FLAT TRIM

DETAIL #: CS-IC-01-KSV

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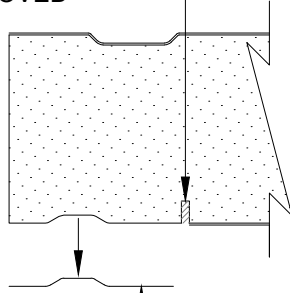
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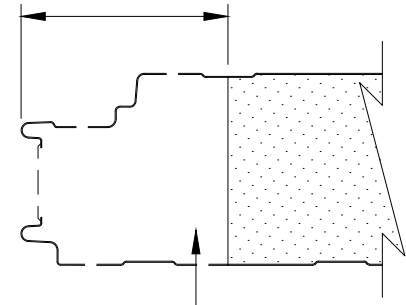
THERMAL CUT PANEL FACE
SUFFICIENT ENOUGH FOR
METAL TO BE REMOVED



REMOVE METAL SKIN FROM
THERMAL CUT TO EXTENT
OF CORNER CONDITION

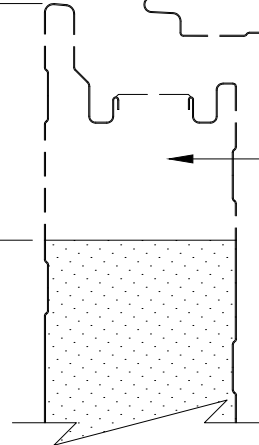
- 2" PANEL - REMOVE 1"
- 2.5" PANEL - REMOVE 1.25"
- 3" PANEL - REMOVE 1.5"
- 4" PANEL - REMOVE 2"
- 5" PANEL - REMOVE 2.5"
- 6" PANEL - REMOVE - 3"

WILL VARY WITH
FIELD CONDITION



WILL VARY WITH
FIELD CONDITION

FIELD CUT



FIELD CUT THERMAL BREAK

REMOVE METAL SKIN FROM
THERMAL CUT TO PANEL END,
 $\frac{1}{2}$ OF PANEL THICKNESS

MIN. $\frac{1}{4}$ " GAP FOR
F.I.P. INSTALLATION

OUTSIDE CORNER TRIM
W/ PHIL. PAN HEAD
AT 8" O.C

1/4" HWH DP3 FASTENERS
W/ 1 1/8" BONDED WASHER
(AS REQUIRED FOR WIND
LOAD)

CONTINUOUS BUTYL
SEALANT

HORIZONTAL SUPPORT
(NOT BY KINGSPAN)

COLD SIDE

WARM SIDE

VAPOR BARRIER
(NOT BY KINGSPAN)
(GREENGUARD BUTYL
FLASHING PART #2-7070
OPTIONAL BY KINGSPAN)

PROFIED INSIDE CORNER
TRIM W/ POP RIVETS AND
8" O.C.

CONTINUOUS BUTYL TAPE

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INSIDE CORNER
PROFIED TRIM

DETAIL #: CS-IC-02-KSV

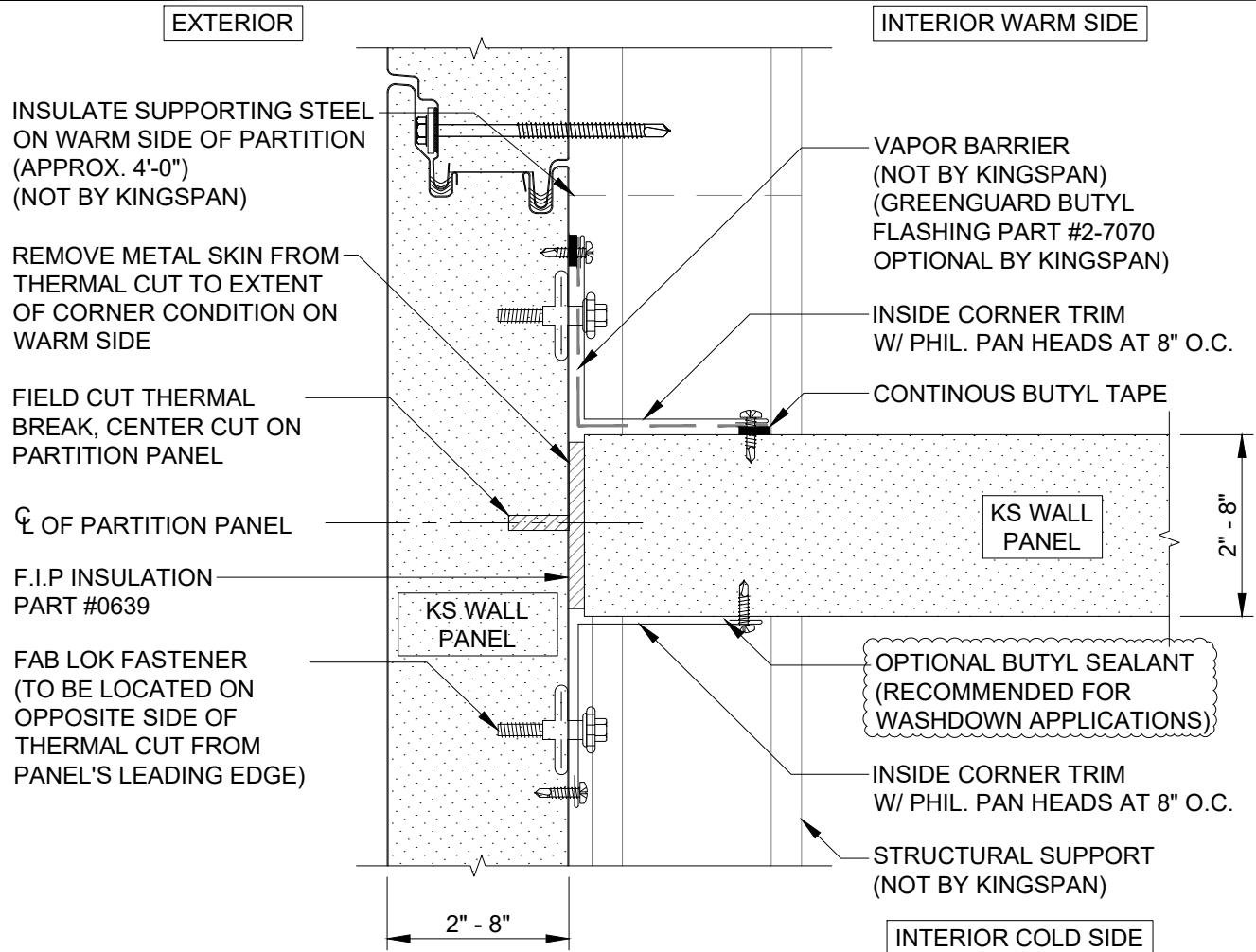
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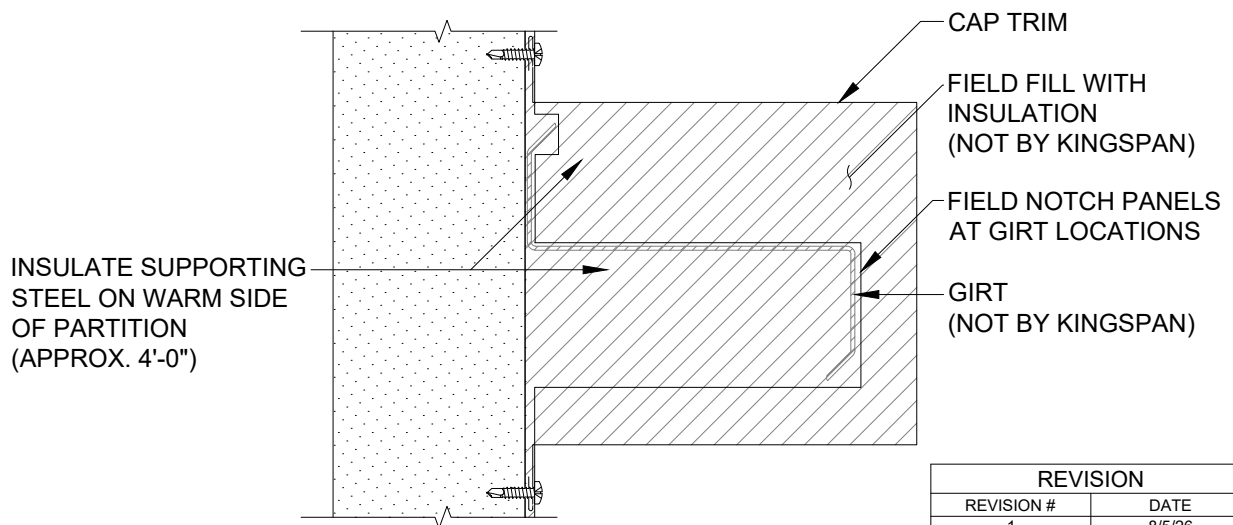
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



ADDITIONAL FASTENERS MAY BE REQUIRED ON EITHER SIDE OF THE FIELD CUT THERMAL BREAK BASED UPON ACTUAL DESIGN LOADS AND THERMAL REQUIREMENTS.



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PARTITION TO EXTERIOR WALL
THROUGH FRAMING

DETAIL #: CS-IC-03-KSV

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

REMOVE METAL SKIN FROM
THERMAL CUT TO EXTENT
OF CORNER CONDITION ON
WARM SIDE

F.I.P INSULATION
PART #0639

INSIDE CORNER TRIM
W/ 3/4" PHIL. PAN
HEADS AT 8" O.C.

STRUCTURAL
SUPPORT
(NOT BY KINGSPAN)

KS WALL PANEL

KS INTERIOR PANEL

CAP TRIM
W/ 3/4" PHIL. PAN
HEADS AT 8" O.C.

STRUCTURAL
SUPPORT
(NOT BY KINGSPAN)

KS WALL PANEL

REVISION	
REVISION #	DATE
1	8/5/26

PARTITION TO EXTERIOR WALL
ISOMETRIC VIEW

DETAIL #: CS-IC-04-KSV

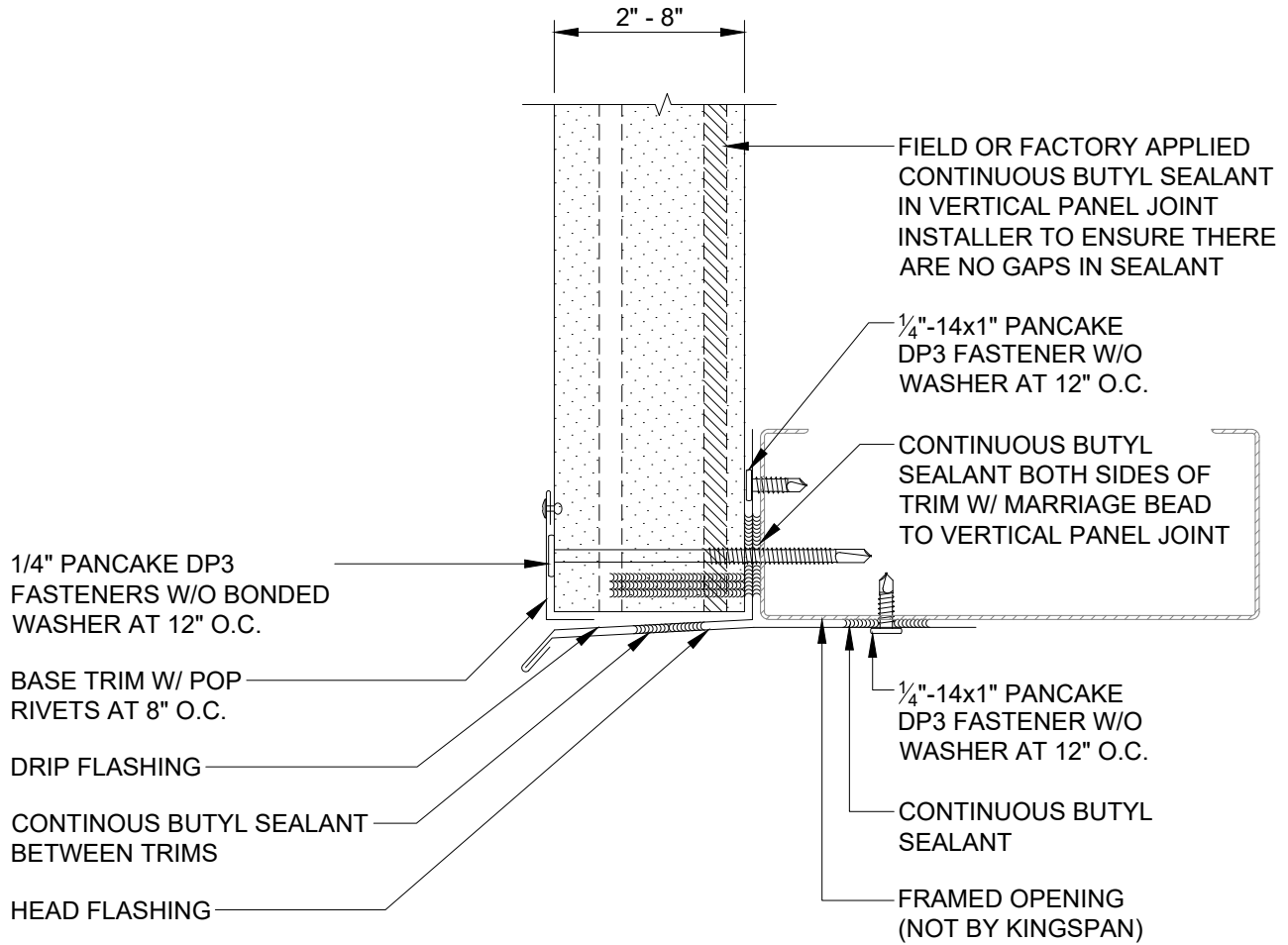
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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FRAMED OPENING EXTERIOR - HEAD

DETAIL #: CS-FO-01-KSV

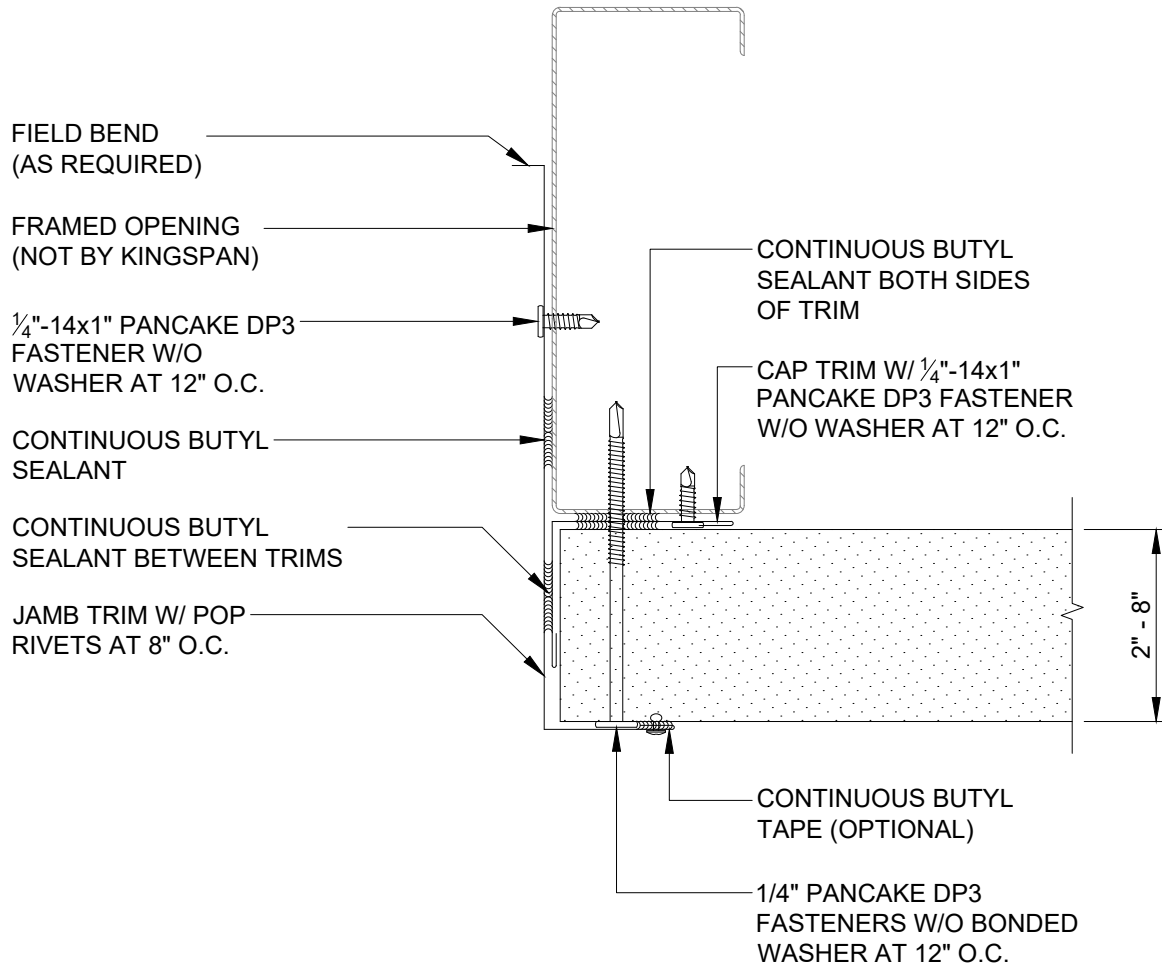
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



REVISION	
REVISION #	DATE
1	8/5/26

FRAMED OPENING EXTERIOR - JAMB

DETAIL #: CS-FO-02-KSV

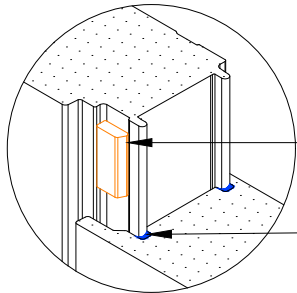
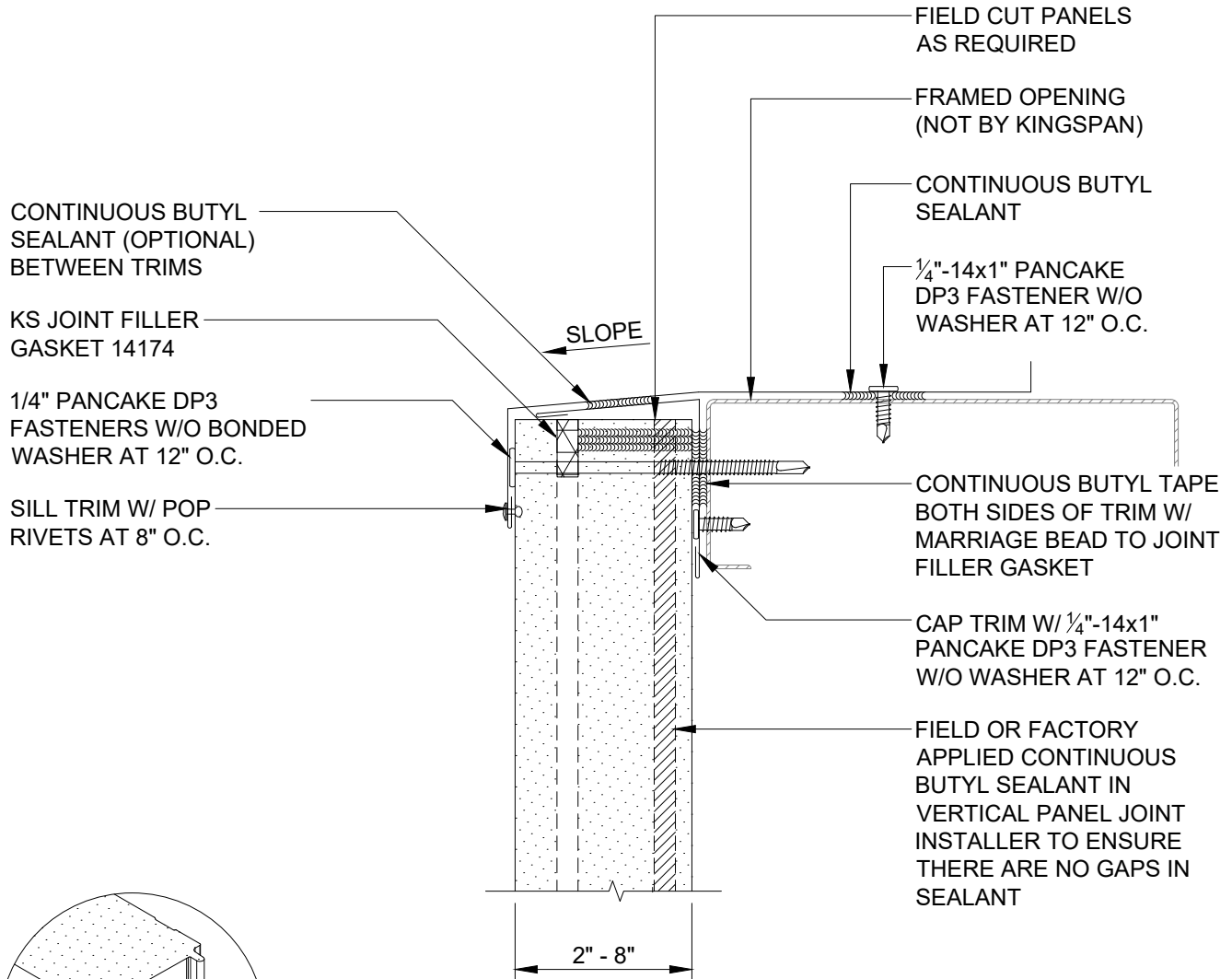
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



KS JOINT FILLER GASKET
INSTALLED IN JOINT CAVITY

FIELD OR FACTORY APPLIED
BUTYL SEALANT IN PANEL JOINT(S)

REVISION	
REVISION #	DATE
1	8/5/26

FRAMED OPENING EXTERIOR - SILL

DETAIL #: CS-FO-03-KSV

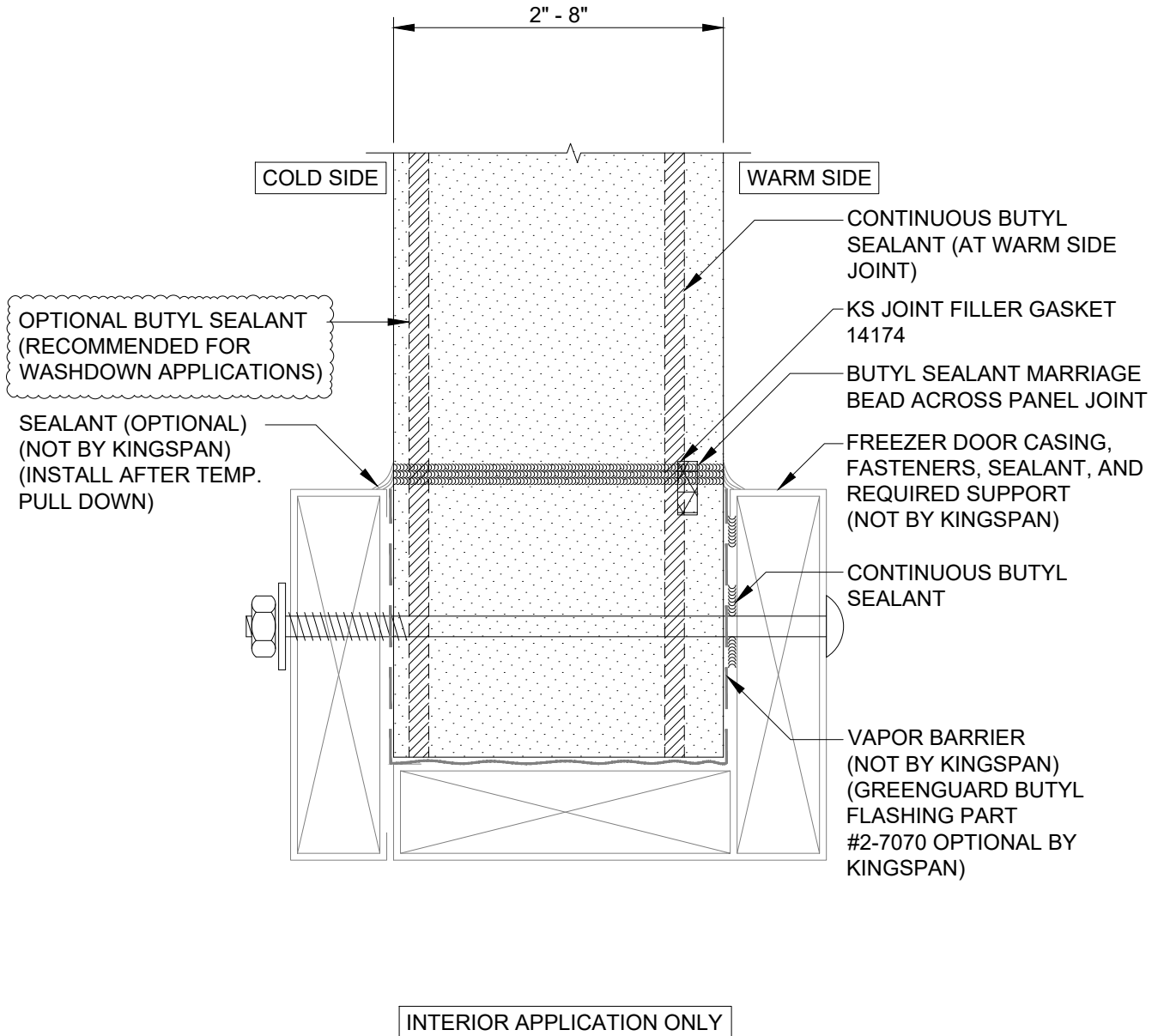
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



REVISION	
REVISION #	DATE
1	8/5/26

FRAMED OPENING INTERIOR - HEAD

DETAIL #: CS-FO-04-KSV

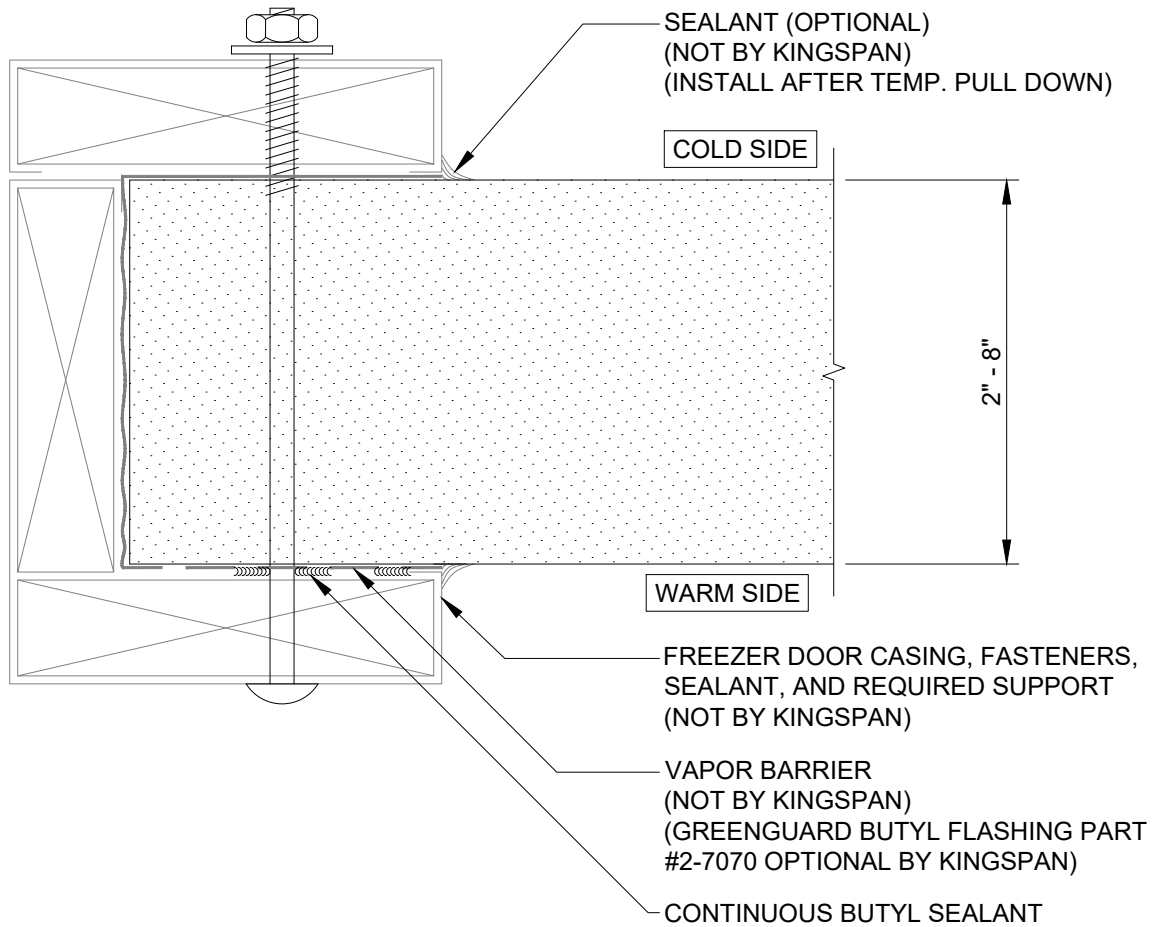
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



INTERIOR APPLICATION ONLY

REVISION	
REVISION #	DATE
1	8/5/26

FRAMED OPENING INTERIOR - JAMB

DETAIL #: CS-FO-05-KSV

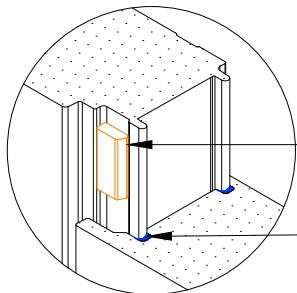
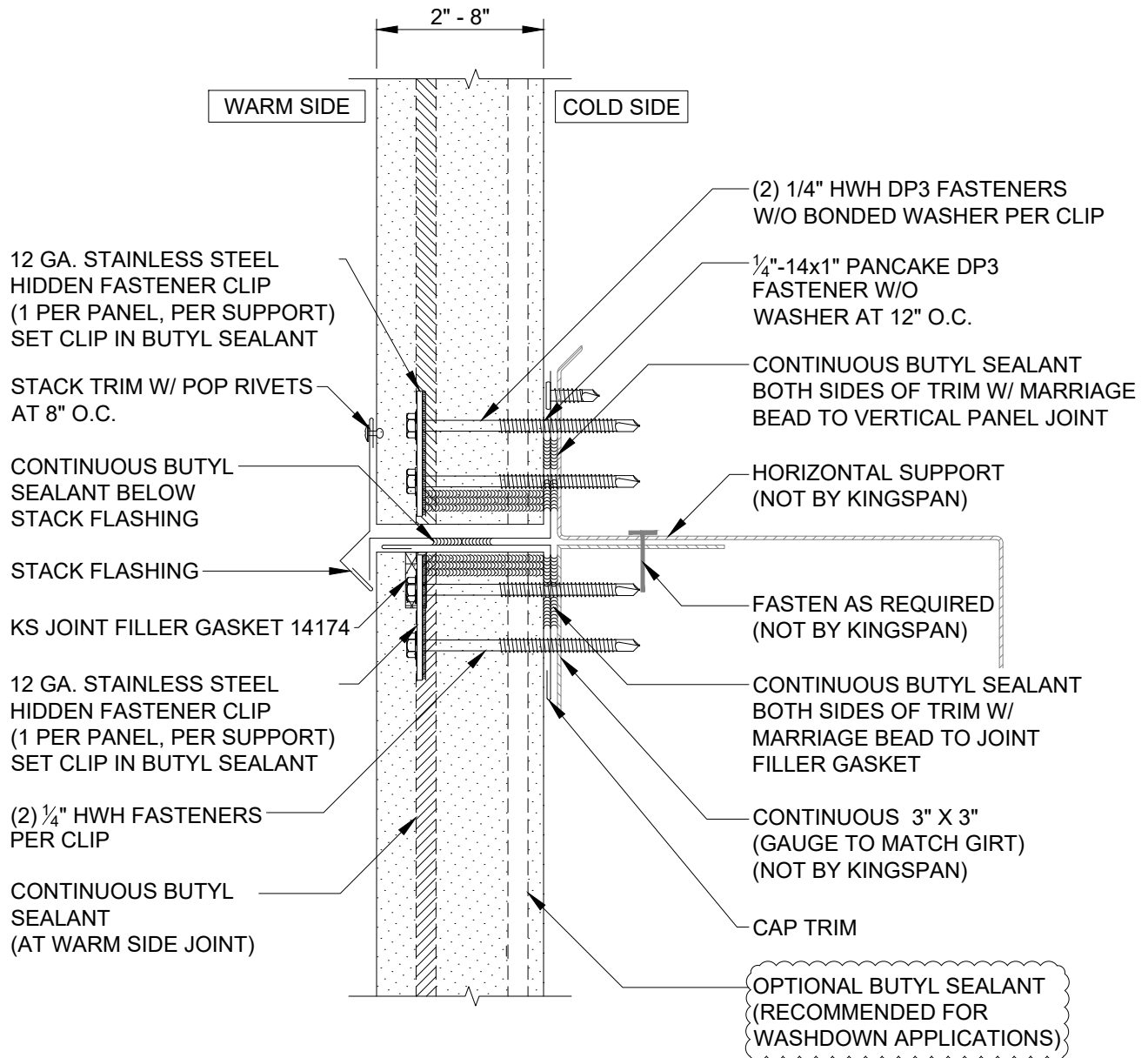
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



KS JOINT FILLER GASKET
INSTALLED IN JOINT CAVITY

FIELD OR FACTORY APPLIED
BUTYL SEALANT IN PANEL JOINT(S)

CONTACT KINGSPAN TECHNICAL SERVICES FOR
PROPER PANEL FASTENING REQUIREMENTS

REVISION	
REVISION #	DATE
1	8/5/26

STACK JOINT

DETAIL #: CS-ST-01-KSV

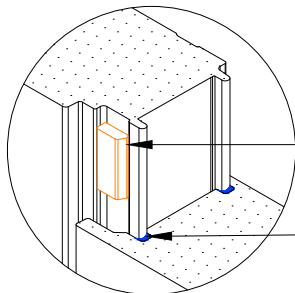
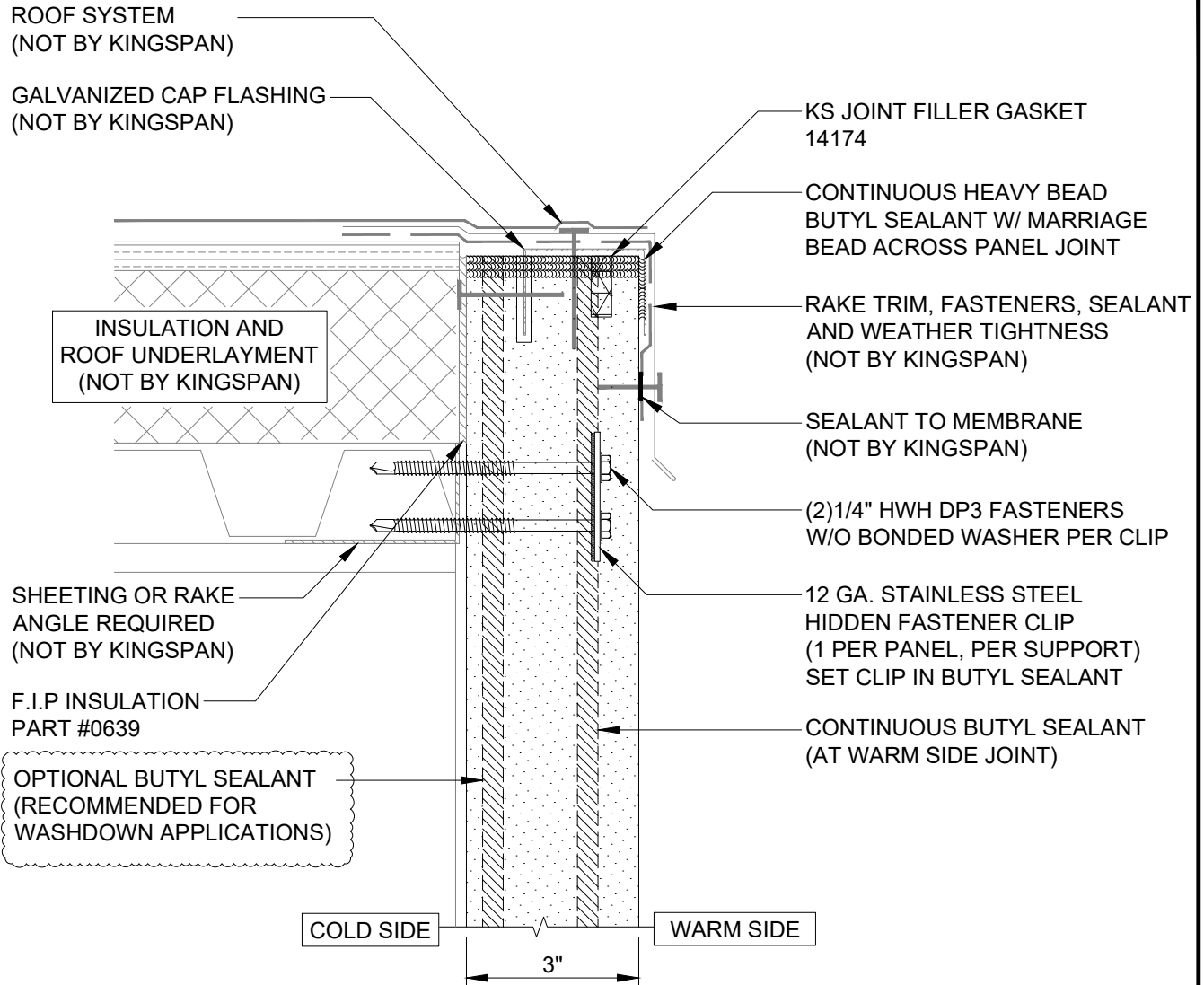
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



KS JOINT FILLER GASKET
INSTALLED IN JOINT CAVITY

FIELD OR FACTORY APPLIED
BUTYL SEALANT IN PANEL JOINT(S)

REVISION	
REVISION #	DATE
1	8/5/26

RAKE W/ MEMBRANE ROOF
(SMALL CAP)

DETAIL #: CS-RK-01-KSV

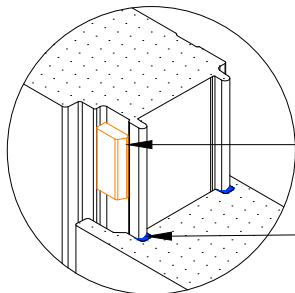
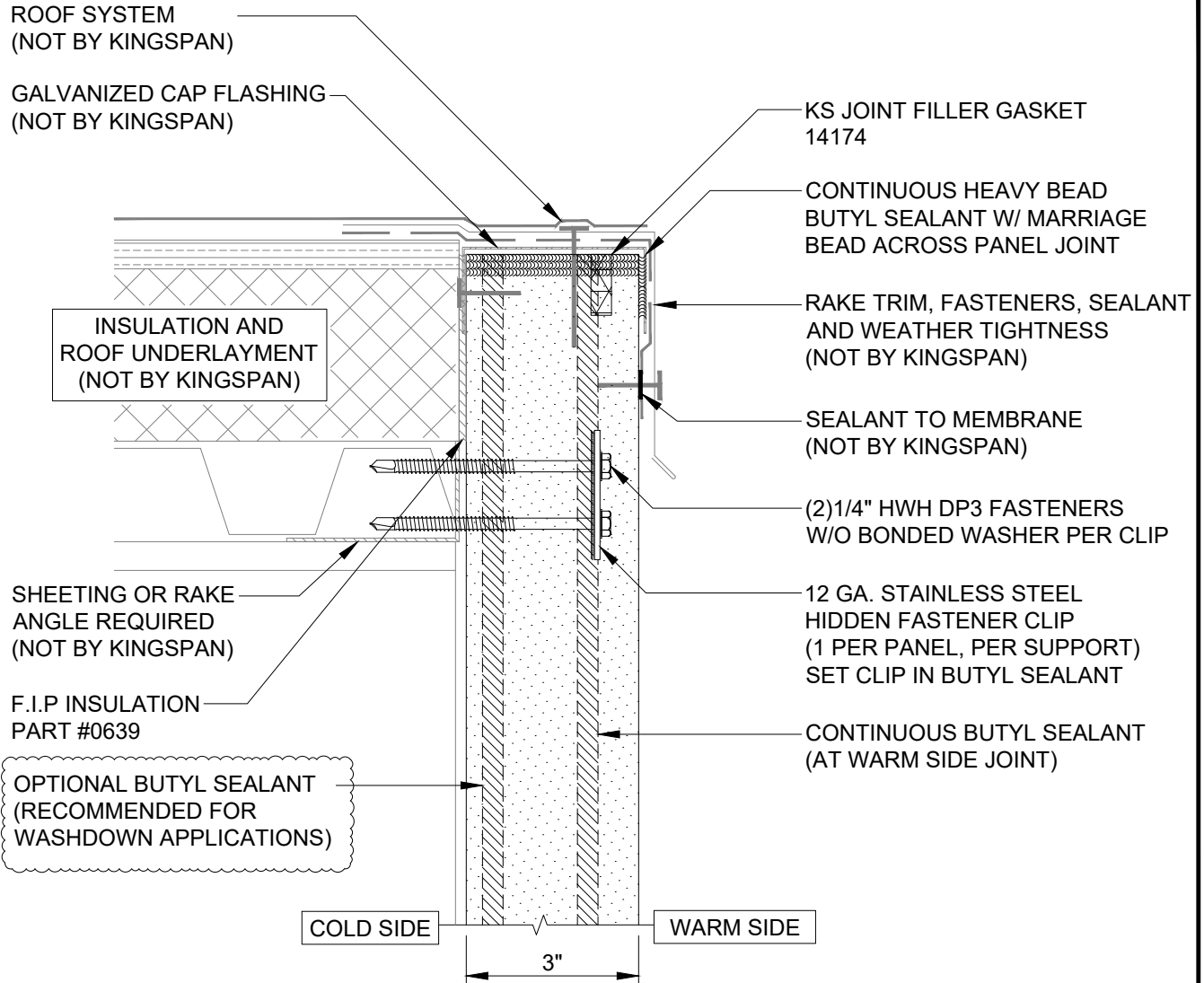
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



KS JOINT FILLER GASKET
INSTALLED IN JOINT CAVITY

FIELD OR FACTORY APPLIED
BUTYL SEALANT IN PANEL JOINT(S)

REVISION	
REVISION #	DATE
1	8/5/26

RAKE W/ MEMBRANE ROOF
(LARGE CAP)

DETAIL #: CS-RK-02-KSV

RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

F.I.P INSULATION
PART #0639

GALVANIZED CAP FLASHING
(NOT BY KINGSPAN)

ROOF SYSTEM
(NOT BY KINGSPAN)

INSULATION AND
ROOF UNDERLAYMENT
(NOT BY KINGSPAN)

FASTENER
(NOT BY KINGSPAN)

EAVE STRUT
(NOT BY KINGSPAN)

KS JOINT FILLER GASKET
14174

CONTINUOUS HEAVY BEAD BUTYL
SEALANT W/ MARRIAGE BEAD
ACROSS PANEL JOINT

SEALANT TO MEMBRANE
(NOT BY KINGSPAN)

RAKE TRIM, FASTENERS, SEALANT
AND WEATHER TIGHTNESS
(NOT BY KINGSPAN)

CONTINUOUS BUTYL SEALANT
(AT WARM SIDE JOINT)

(2) 1/4" HWH DP3 FASTENERS
W/O BONDED WASHER PER CLIP

12 GA. STAINLESS STEEL
HIDDEN FASTENER CLIP
(1 PER PANEL, PER SUPPORT)
SET CLIP IN BUTYL SEALANT

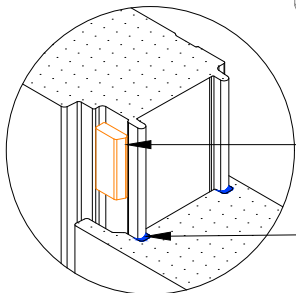
COLD SIDE

WARM SIDE

2" - 8"

KS JOINT FILLER GASKET
INSTALLED IN JOINT CAVITY

FIELD OR FACTORY APPLIED
BUTYL SEALANT IN PANEL JOINT(S)



REVISION

REVISION #	DATE
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LOW EAVE

DETAIL #: CS-EV-01-KSV

RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

ROOF SYSTEM
(NOT BY KINGSPAN)

F.I.P INSULATION
PART #0639

GALVANIZED CAP FLASHING
(NOT BY KINGSPAN)

INSULATION AND
ROOF UNDERLAYMENT
(NOT BY KINGSPAN)

FASTENER
(NOT BY KINGSPAN)

EAVE STRUT
(NOT BY KINGSPAN)

OPTIONAL BUTYL SEALANT
(RECOMMENDED FOR
WASHDOWN APPLICATIONS)

KS JOINT FILLER GASKET
14174

CONTINUOUS HEAVY BEAD
BUTYL SEALANT W/ MARRIAGE
BEAD ACROSS PANEL JOINT

SEALANT TO MEMBRANE
(NOT BY KINGSPAN)

RAKE TRIM, FASTENERS, SEALANT
AND WEATHER TIGHTNESS
(NOT BY KINGSPAN)

CONTINUOUS BUTYL SEALANT
(AT WARM SIDE JOINT)

(2) 1/4" HWH DP3 FASTENERS
W/O BONDED WASHER PER CLIP

12 GA. STAINLESS STEEL
HIDDEN FASTENER CLIP
(1 PER PANEL, PER SUPPORT)
SET CLIP IN BUTYL SEALANT

CONTINUOUS BUTYL SEALANT
(AT WARM SIDE JOINT)

COLD SIDE

WARM SIDE

2" - 8"

KS JOINT FILLER GASKET
INSTALLED IN JOINT CAVITY

FIELD OR FACTORY APPLIED
BUTYL SEALANT IN PANEL JOINT(S)

REVISION

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HIGH EAVE

DETAIL #: CS-EV-02-KSV

RELEASE: 2026

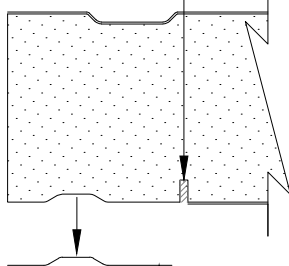
REGION: NORTH AMERICA

www.kingspanpanels.com



KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

THERMAL CUT PANEL
FACE SUFFICIENT
ENOUGH FOR METAL
TO BE REMOVED



REMOVE METAL SKIN
FROM THERMAL CUT
TO EXTENT OF
CORNER CONDITION

2" PANEL - REMOVE 1"
2.5" PANEL - REMOVE 1.25"
3" PANEL - REMOVE 1.5"
4" PANEL - REMOVE 2"
5" PANEL - REMOVE 2.5"
6" PANEL - REMOVE - 3"

REFER TO KINGSPAN CEILING
GUIDELINES

ATTIC ABOVE CEILING
MUST BE VENTILATED

SEE CS-CE-04-KSV
FOR ADDITIONAL INFO

CONTINUOUS BUTYL SEALANT

FIELD CUT THERMAL
BREAK

F.I.P INSULATION
PART #0639

OUTSIDE
CORNER TRIM
W/ $\frac{3}{4}$ " PHIL. PAN
HEADS AT 8" O.C.

VAPOR BARRIER
(NOT BY KINGSPAN)
(GREENGUARD BUTYL
FLASHING PART
#2-7070 OPTIONAL BY
KINGSPAN)

CONTINUOUS BUTYL
SEALANT W/ MARRIAGE
BEAD TO PANEL JOINT

CONTINUOUS BUTYL
SEALANT
(AT WARM SIDE JOINT)

CEILING

16GA SUPPORT ANGLE
W/ FAB-LOKS AT 12" O.C

INSIDE CORNER TRIM
W/ $\frac{3}{4}$ " PHIL. PAN
HEADS
AT 8" O.C.

WALL

WARM SIDE

COLD SIDE

2" - 8"

REVISION

REVISION #	DATE
1	8/5/26

WALL TO CEILING

DETAIL #: CS-CE-01-KSV

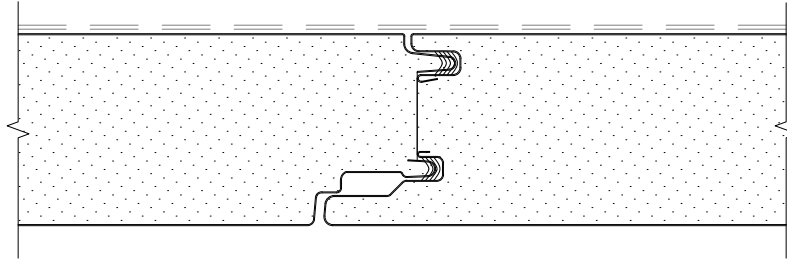
RELEASE: 2026

REGION: NORTH AMERICA

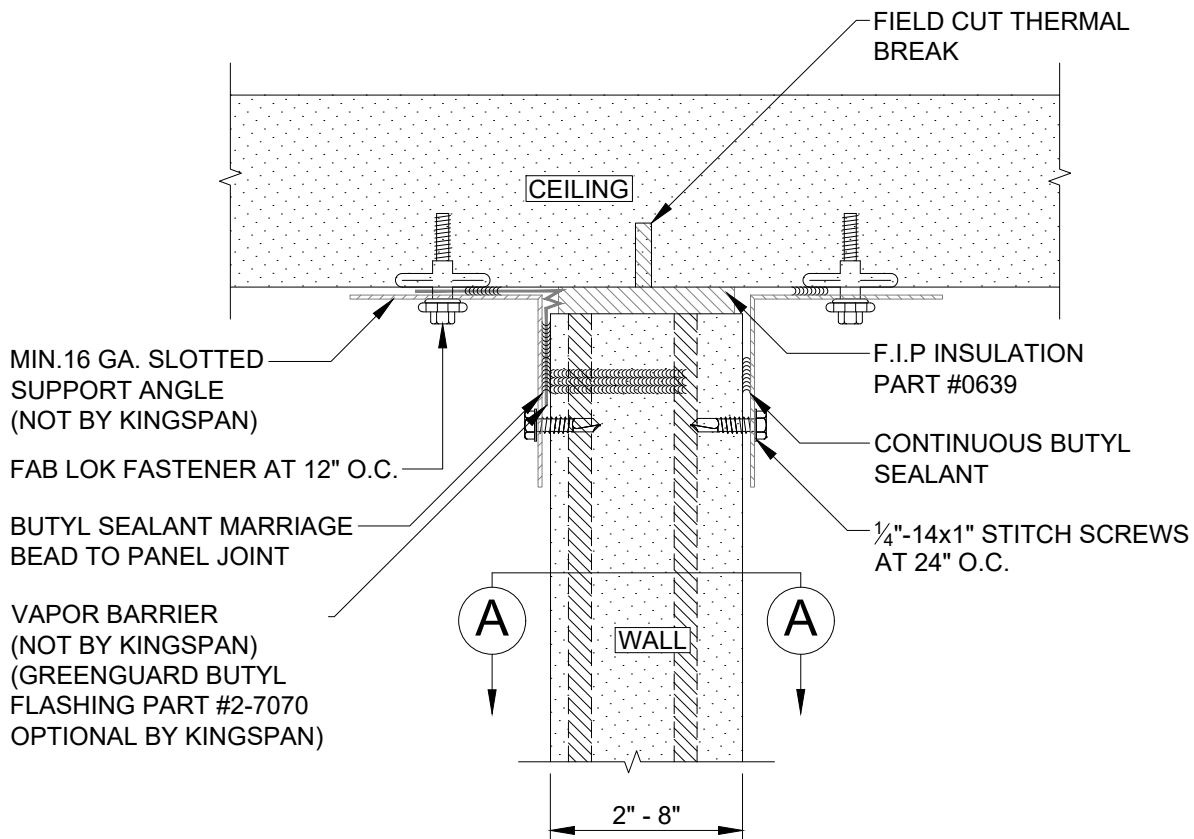
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



AA CROSS SECTION
(SECTION VIEW)



REVISION	
REVISION #	DATE
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PARTITION WALL TO CEILING
INTERSECTION

DETAIL #: CS-CE-02-KSV

RELEASE: 2026

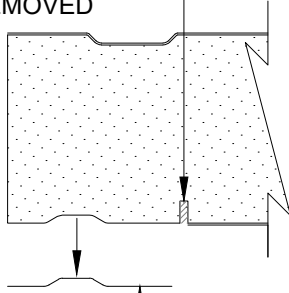
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

THERMAL CUT PANEL
FACE SUFFICIENT
ENOUGH FOR METAL
TO BE REMOVED



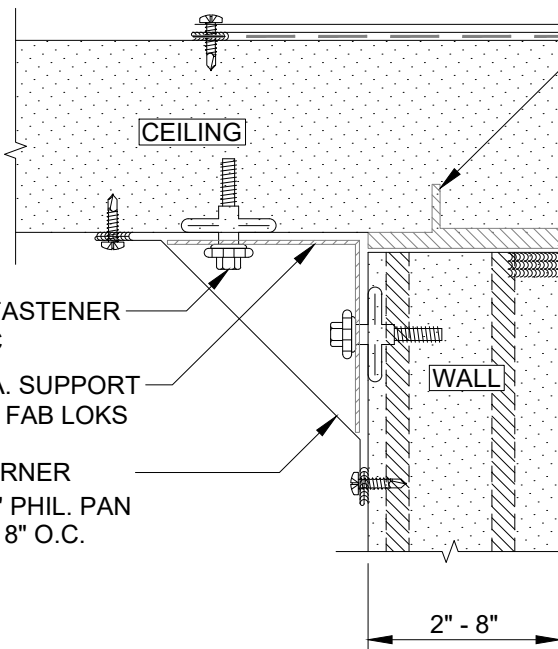
REMOVE METAL SKIN
FROM THERMAL CUT
TO EXTENT OF
CORNER CONDITION

2" PANEL - REMOVE 1"
2.5" PANEL - REMOVE 1.25"
3" PANEL - REMOVE 1.5"
4" PANEL - REMOVE 2"
5" PANEL - REMOVE 2.5"
6" PANEL - REMOVE - 3"

FAB LOK FASTENER
AT 12" O.C

MIN. 16 GA. SUPPORT
ANGLE W/ FAB LOKS

INSIDE CORNER
TRIM W/ 3/4" PHIL. PAN
HEADS AT 8" O.C.



TRANS FLASHING
W/ 3/4" PHIL. PAN
HEADS AT 8" O.C.

FASTENER TO
CONCRETE
(NOT BY KINGSPAN)

THERMAL CUT
FIELD BREAK

OUTSIDE CORNER
TRIM

F.I.P INSULATION
PART #0639

CONTINUOUS BUTYL
SEALANT W/
MARRIAGE BEAD TO
PANEL JOINT
(AT WARM SIDE)

VAPOR BARRIER
(NOT BY
KINGSPAN)
(GREENGUARD
BUTYL FLASHING
PART #2-7070
OPTIONAL BY
KINGSPAN)

REVISION

REVISION #	DATE
1	8/5/26

LINER WALL AT CMU TO CEILING
PANEL

DETAIL #: CS-CE-03-KSV

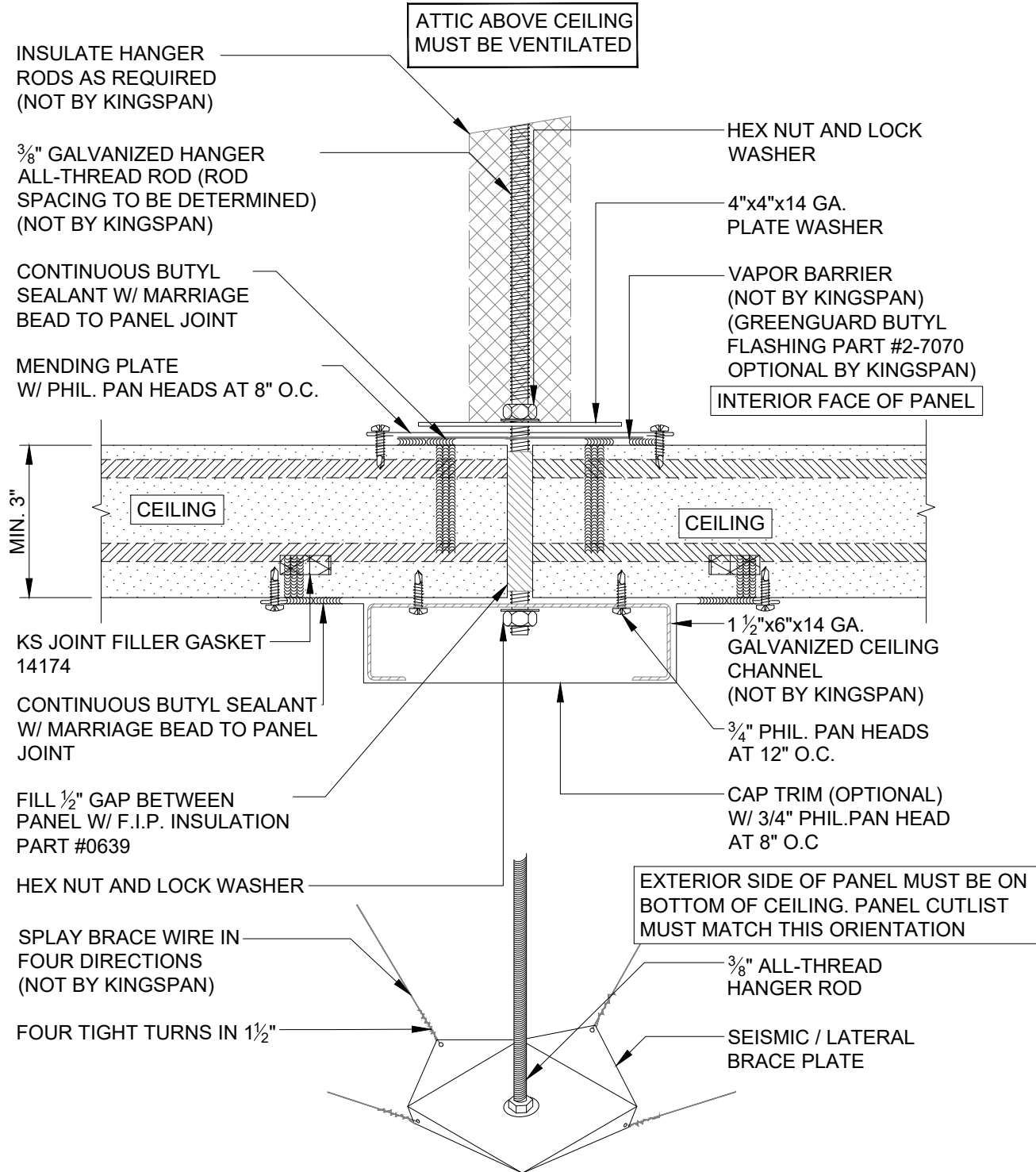
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



SEISMIC / LATERAL BRACE PLATE

CONTACT KINGSPAN TECHNICAL SERVICES FOR SEISMIC BRACE PLATE QUANTITY AND LOCATION

REVISION	
REVISION #	DATE
1	8/5/26

CEILING CHANNEL

DETAIL #: CS-CE-04-KSV

RELEASE: 2026

REGION: NORTH AMERICA

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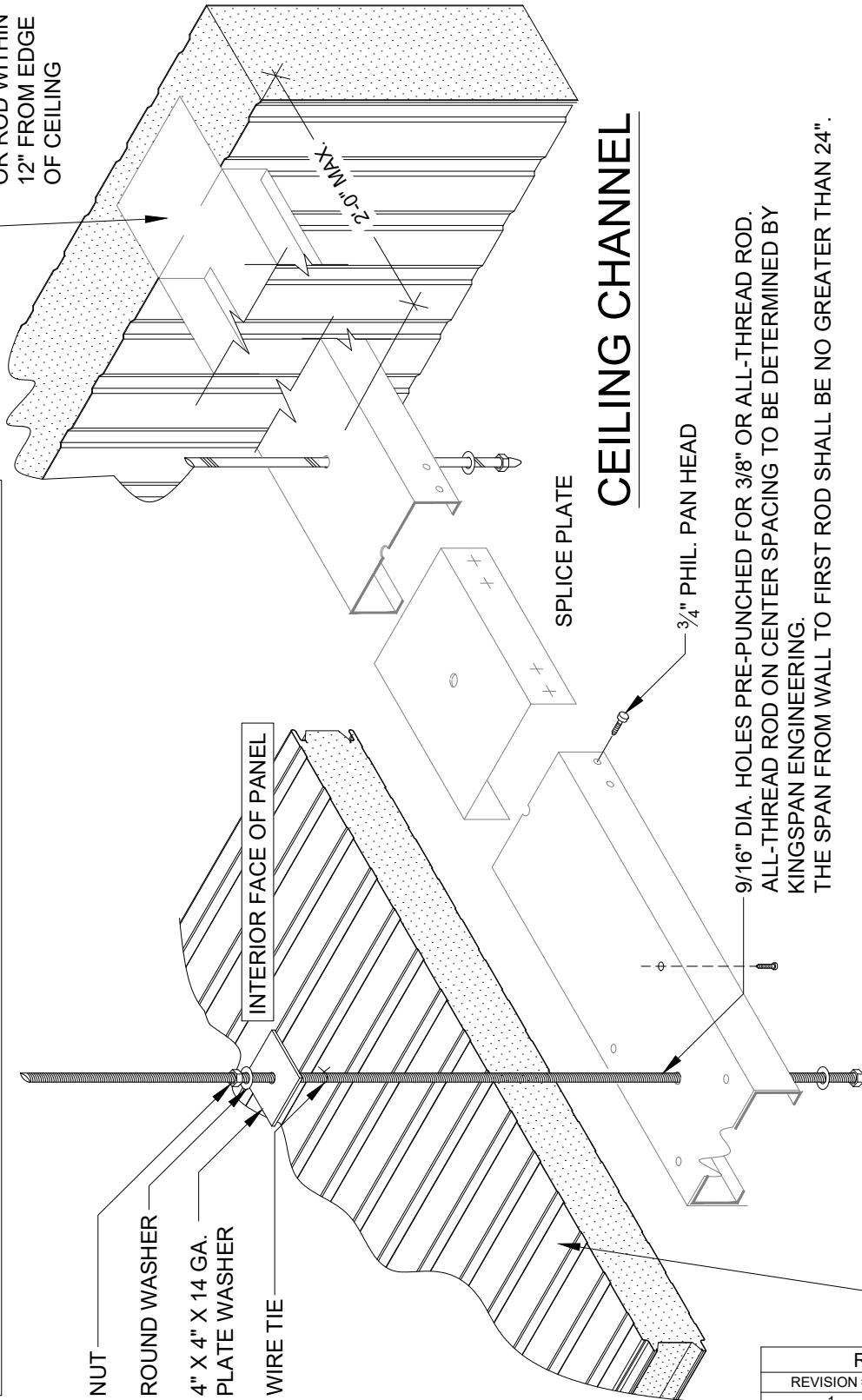


KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

PROJECT ENGINEER OF RECORD MUST VERIFY ROOF IS CAPABLE OF SUPPORTING CEILING SYSTEM LOADS AS WELL AS PROPER CEILING TO ROOF CONNECTION DETAILS.

ERECTOR MAY PRE-ASSEMBLE HARDWARE ON $\frac{3}{8}$ " HANGER RODS. WIRE TIES HOLD WASHERS ABOVE WORKING POINT.

FIELD NOTCH
END OF CHANNEL
TO REST ON TOP
OF WALL PANEL
OR ROD WITHIN
12" FROM EDGE
OF CEILING



CEILING CHANNEL

9/16" DIA. HOLES PRE-PUNCHED FOR 3/8" OR ALL-THREAD ROD.
ALL-THREAD ROD ON CENTER SPACING TO BE DETERMINED BY
KINGSPAN ENGINEERING.
THE SPAN FROM WALL TO FIRST ROD SHALL BE NO GREATER THAN 24".

EXTERIOR SIDE OF PANEL MUST BE ON BOTTOM OF CEILING. PANEL CUTLIST MUST MATCH THIS ORIENTATION

REVISION	
REVISION #	DATE
1	8/5/26

CEILING CHANNEL ASSEMBLY

DETAIL #: CS-CE-05-KSV

RELEASE: 2026

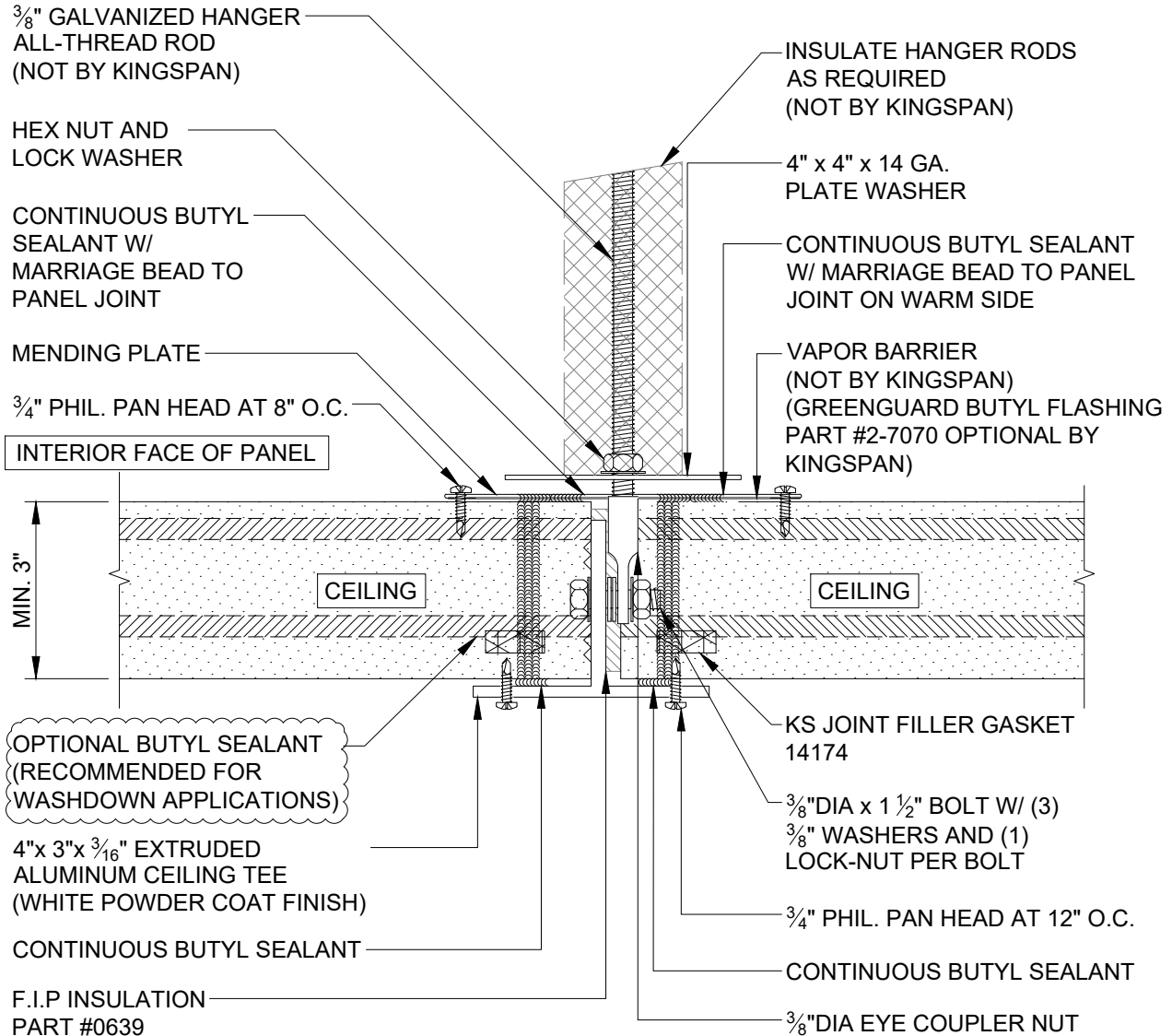
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

ATTIC ABOVE CEILING MUST BE VENTILATED



EXTERIOR SIDE OF PANEL MUST BE ON BOTTOM OF CEILING.
PANEL CUTLIST MUST MATCH THIS ORIENTATION

REVISION	
REVISION #	DATE
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CEILING TEE

DETAIL #: CS-CE-06-KSV

RELEASE: 2026

REGION: NORTH AMERICA

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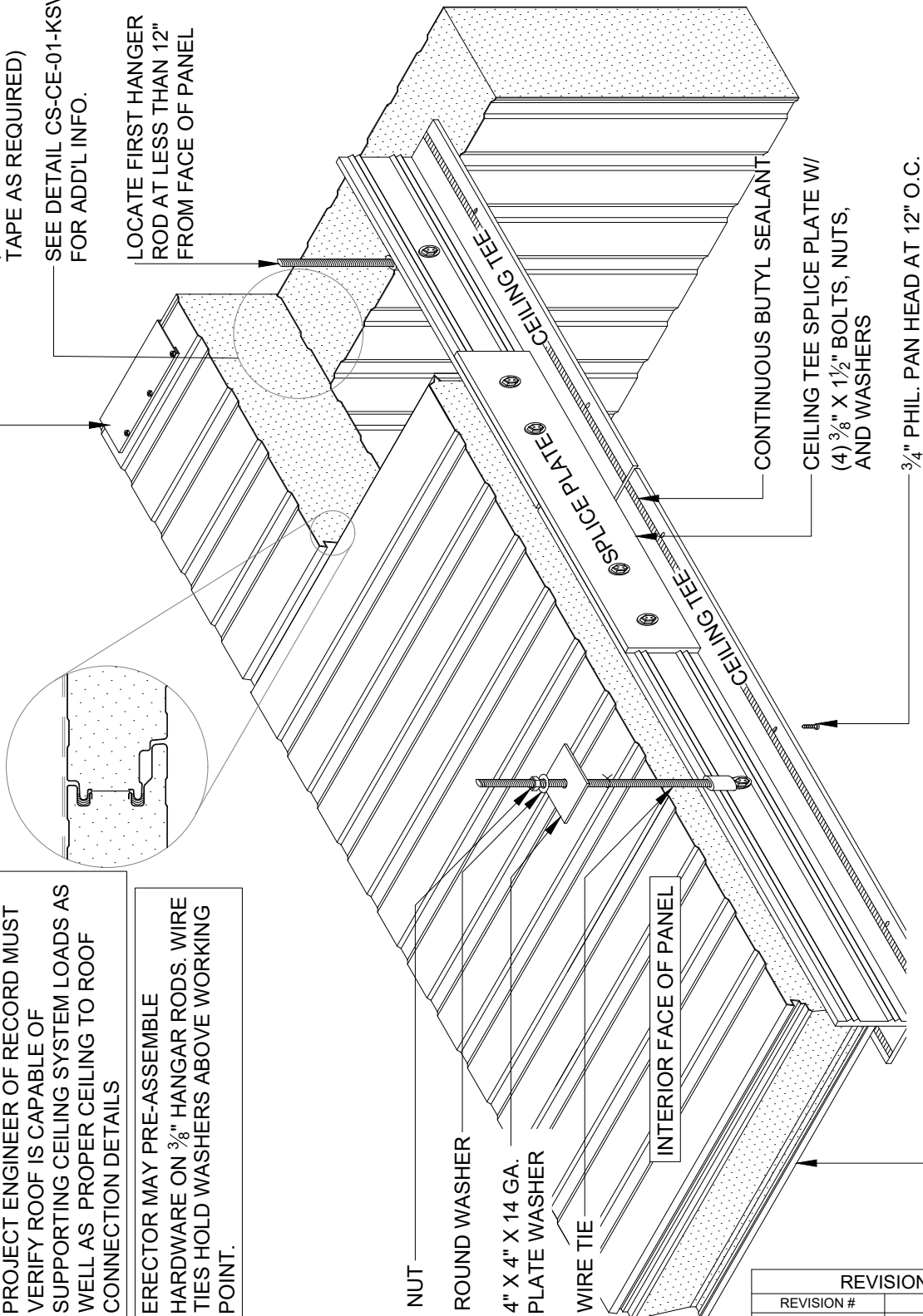
SEISMIC / LATERAL BRACE PLATE (IF REQUIRED) TO BE LOCATED AT EVERY THIRD ROD LOCATION IN LIEU OF PLATE WASHER (SEE DETAIL CS-CE-04-KSV). CONTACT KINGSPAN TECHNICAL SERVICES FOR VERIFICATION.

PROJECT ENGINEER OF RECORD MUST VERIFY ROOF IS CAPABLE OF SUPPORTING CEILING SYSTEM LOADS AS WELL AS PROPER CEILING TO ROOF CONNECTION DETAILS

ERECTOR MAY PRE-ASSEMBLE HARDWARE ON $\frac{3}{8}$ " HANGAR RODS. WIRE TIES HOLD WASHERS ABOVE WORKING POINT.

OUTSIDE CORNER TRIM W/
 $\frac{3}{4}$ " PHIL. PAN HEAD AT 8" O.C.
(SEALANT OR VAPOR SEAL
TAPE AS REQUIRED)
SEE DETAIL CS-CE-01-KSV
FOR ADD'L INFO.

LOCATE FIRST HANGER
ROD AT LESS THAN 12"
FROM FACE OF PANEL



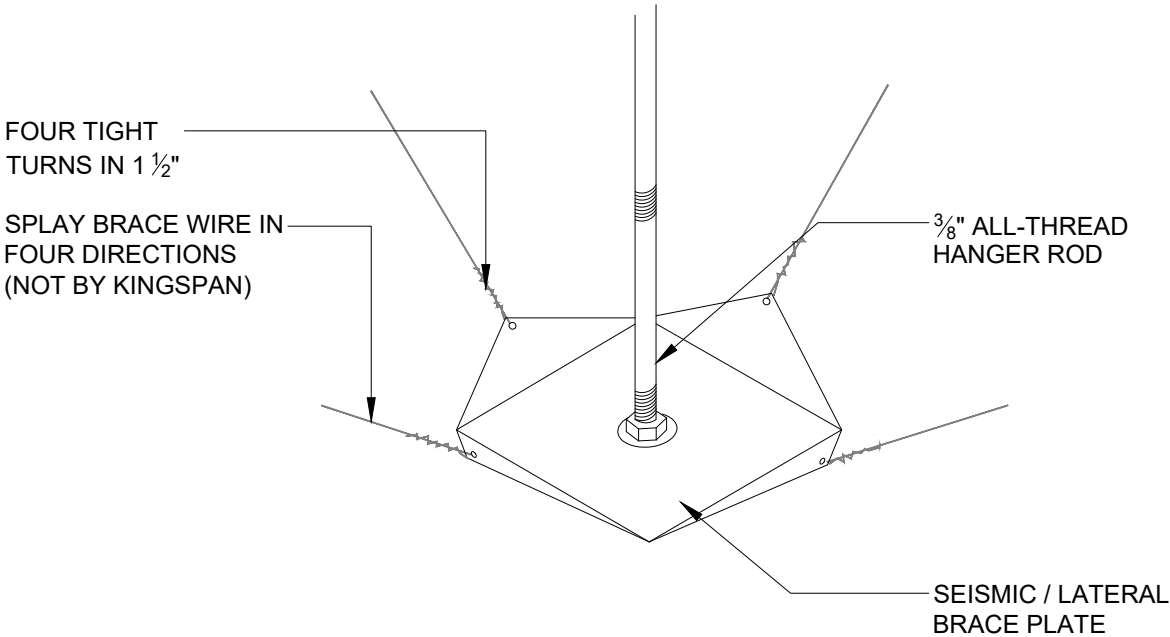
REVISION	
REVISION #	DATE
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CEILING TEE ASSEMBLY

DETAIL #: CS-CE-07-KSV
RELEASE: 2026
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



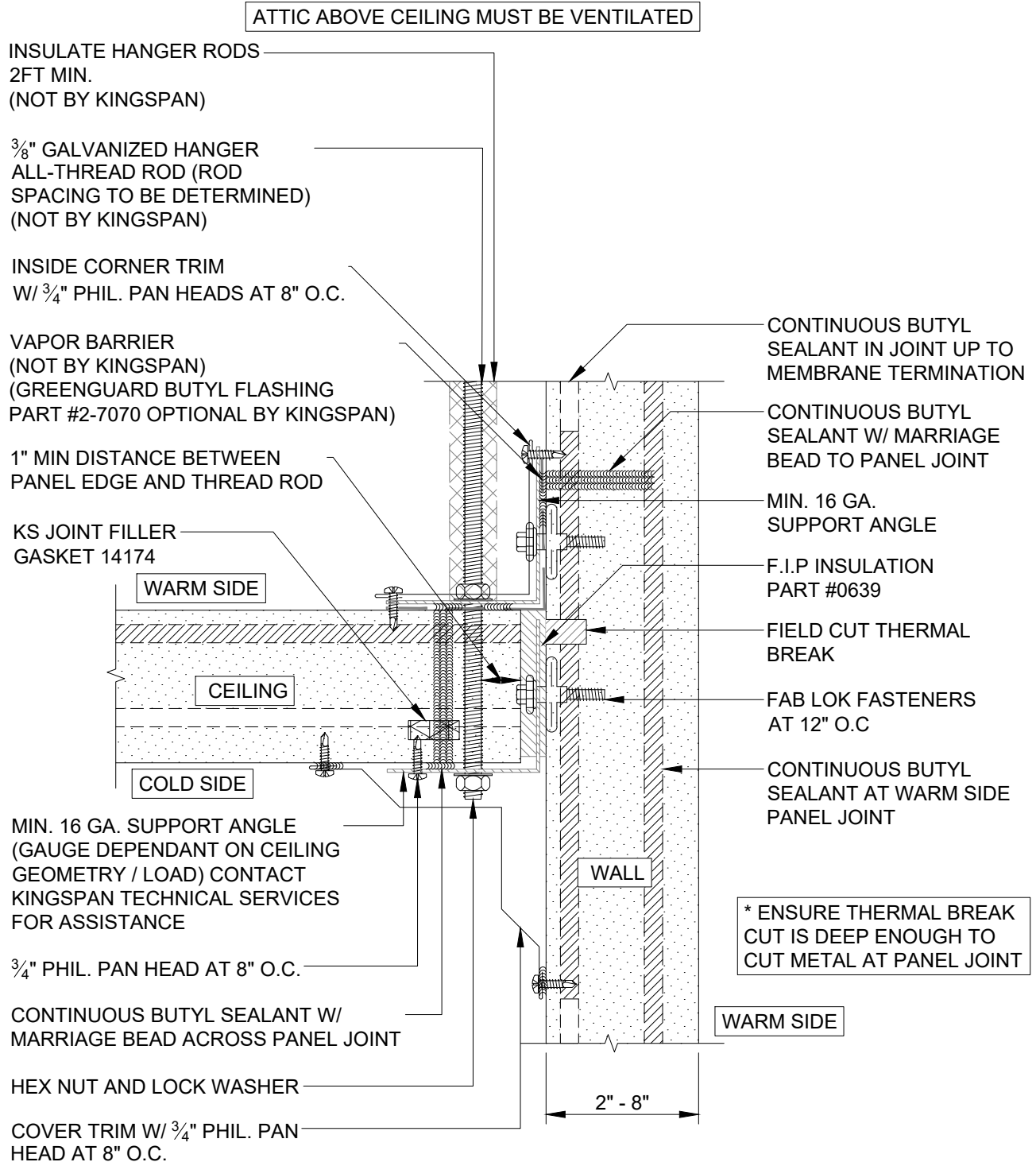
REVISION	
REVISION #	DATE
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SEISMIC / LATERAL BRACE PLATE

DETAIL #: CS-CE-08-KSV
RELEASE: 2026
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



NOTE: CONTACT KINGSPAN TECHNICAL SERVICES FOR ENGINEERING ASSISTANCE

REVISION	
REVISION #	DATE
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CEILING TO WALL
TRANSVERSE

DETAIL #: CS-CE-09-KSV

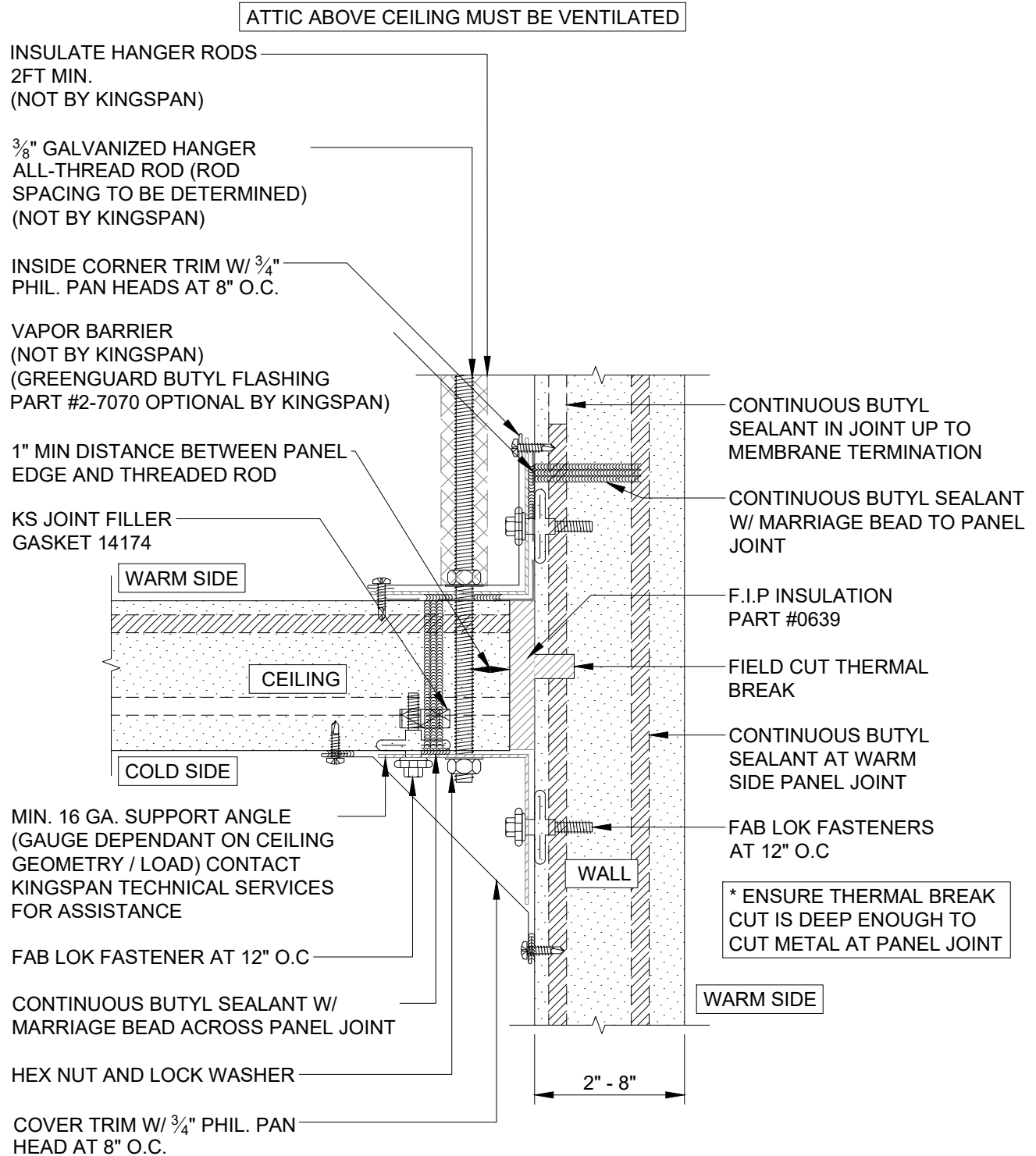
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



NOTE: CONTACT KINGSPAN TECHNICAL SERVICES FOR ENGINEERING ASSISTANCE

REVISION	
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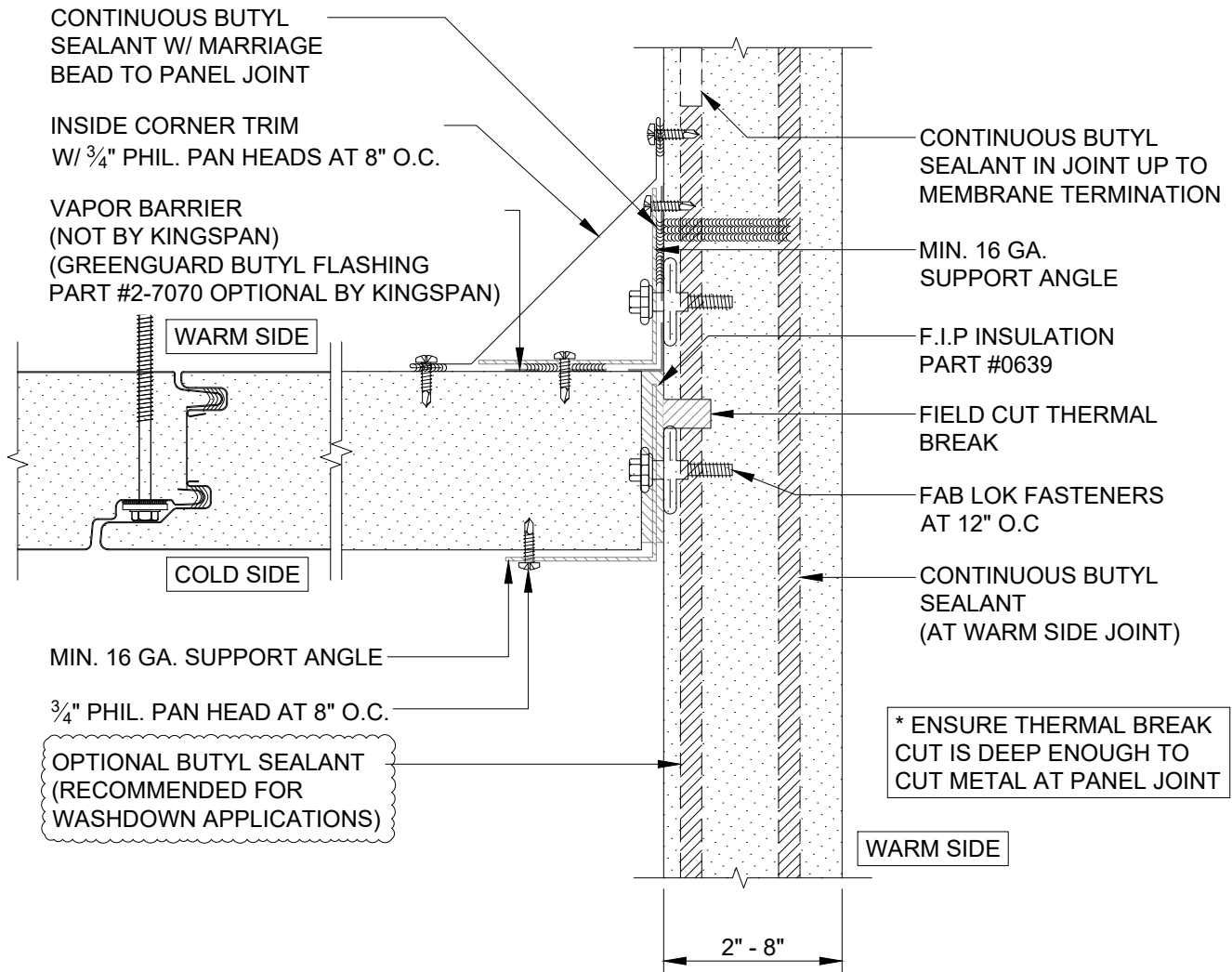
CEILING TO WALL
TRANSVERSE
OPTIONAL ANGLE ORIENTATION

DETAIL #: CS-CE-10-KSV
RELEASE: 2026
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

ATTIC ABOVE CEILING MUST BE VENTILATED



NOTE: CONTACT KINGSPAN TECHNICAL SERVICES FOR ENGINEERING ASSISTANCE

REVISION	
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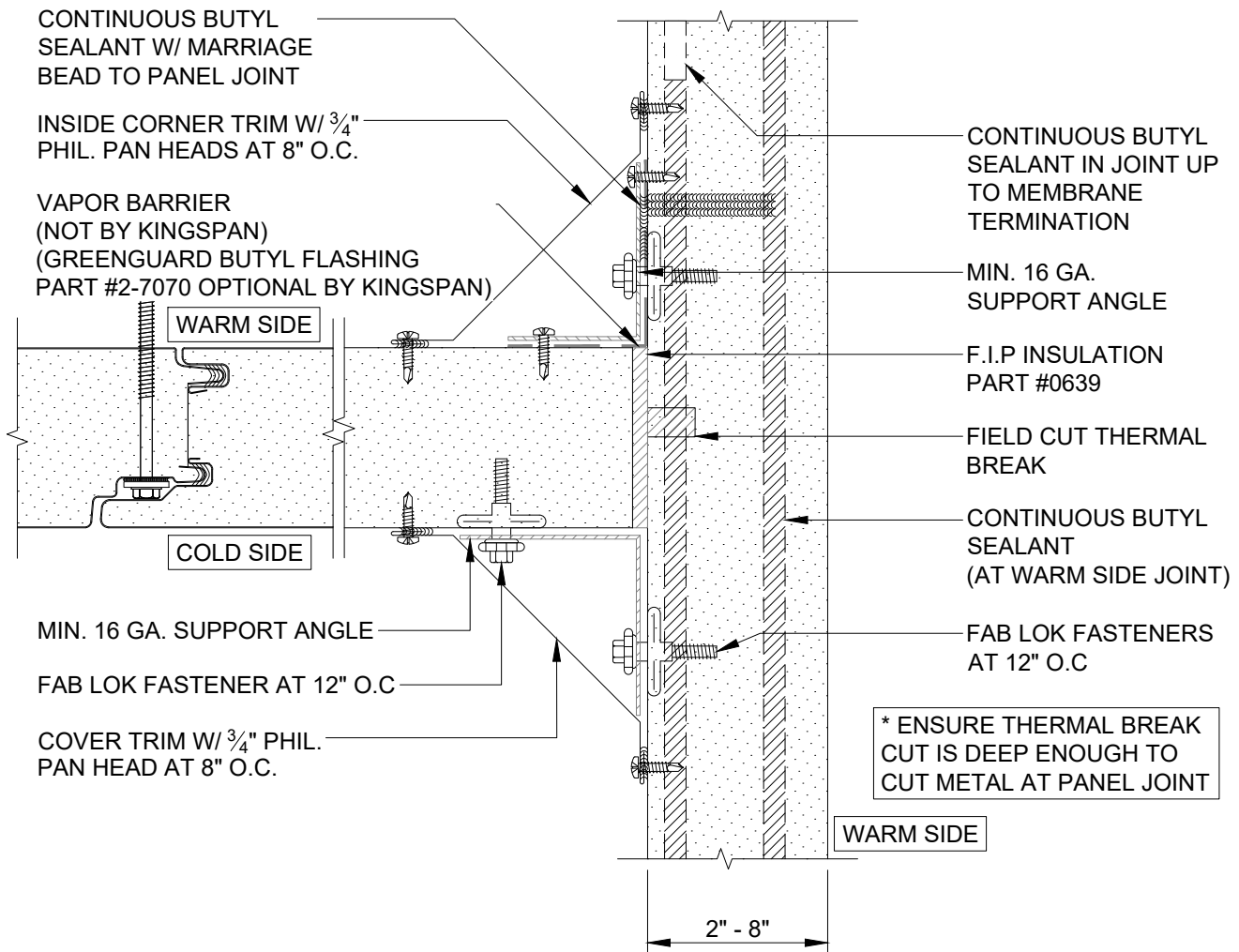
CEILING TO WALL
LONGITUDINAL

DETAIL #: CS-CE-11-KSV
RELEASE: 2026
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

ATTIC ABOVE CEILING MUST BE VENTILATED



NOTE: CONTACT KINGSPAN TECHNICAL SERVICES FOR ENGINEERING ASSISTANCE

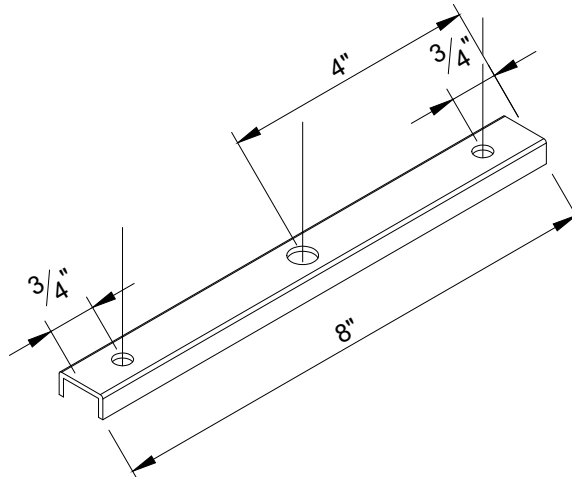
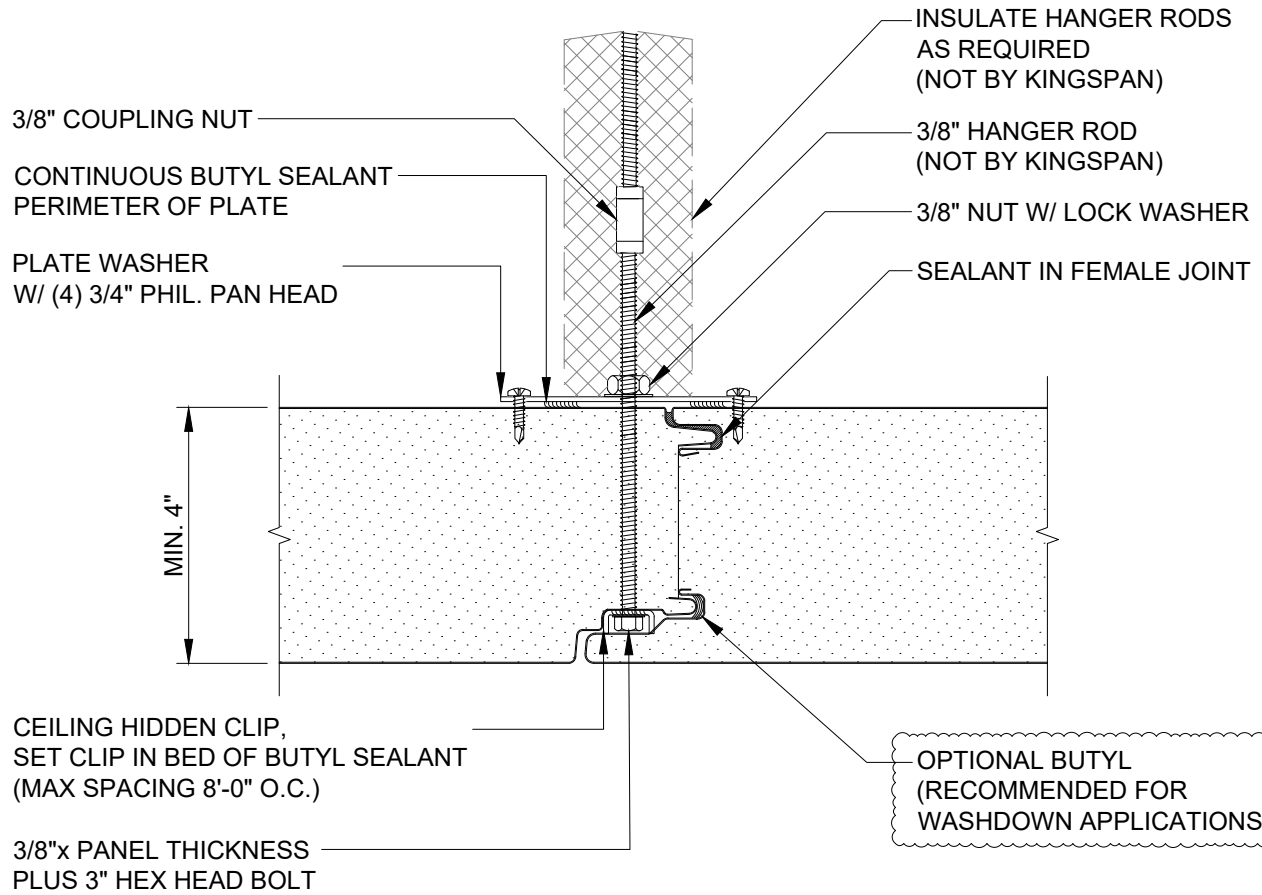
REVISION	
REVISION #	DATE
1	8/5/26

CEILING TO WALL
LONGITUDINAL
OPTIONAL ANGLE ORIENTATION

DETAIL #: CS-CE-12-KSV
RELEASE: 2026
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



"U" CEILING CLIP

REVISION	
REVISION #	DATE
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CEILING HIDDEN CLIP AT JOINT
(OPTIONAL)

DETAIL #: CS-HC-01-KSV

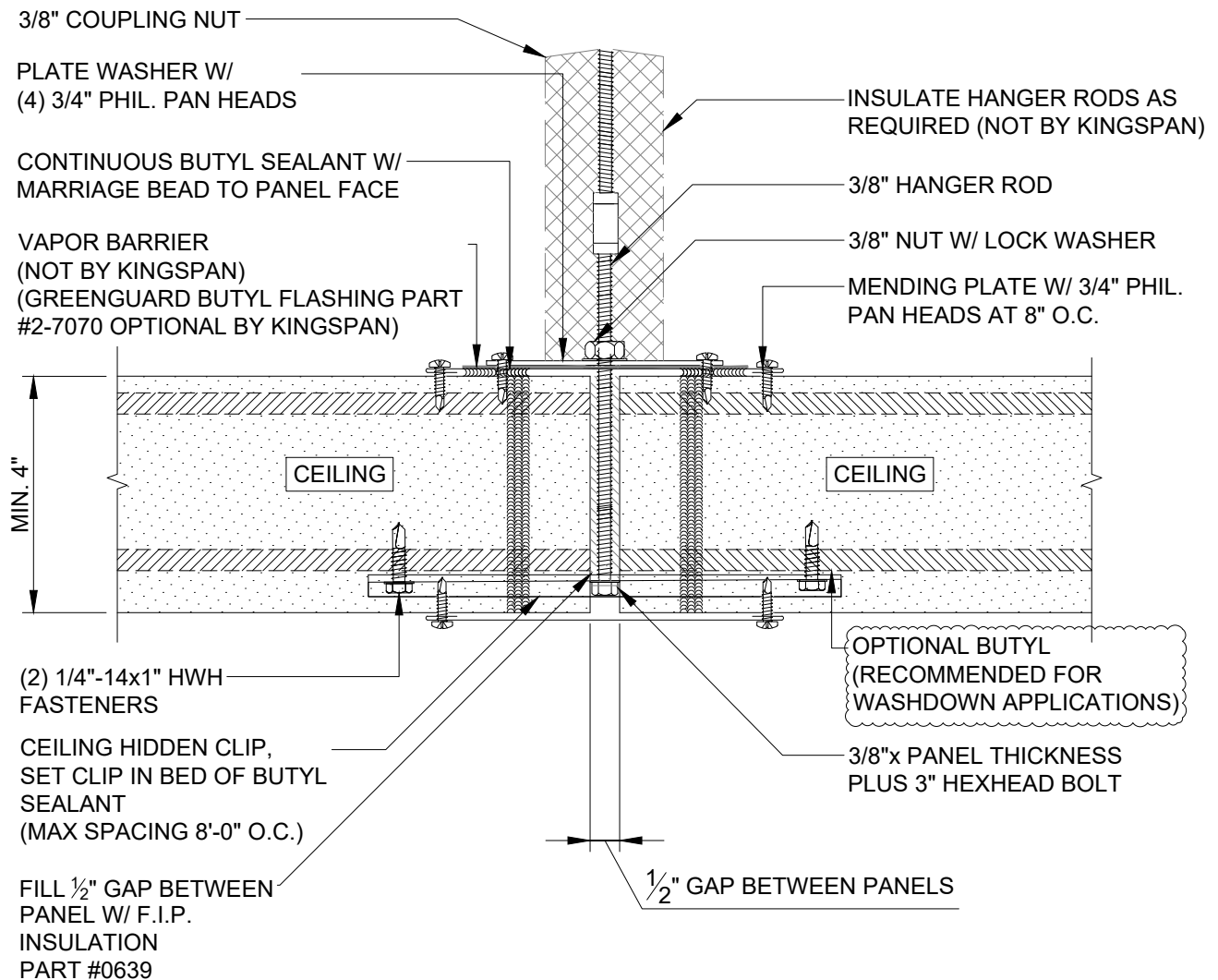
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REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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CEILING HIDDEN CLIP SECTION
(OPTIONAL)

DETAIL #: CS-HC-02-KSV

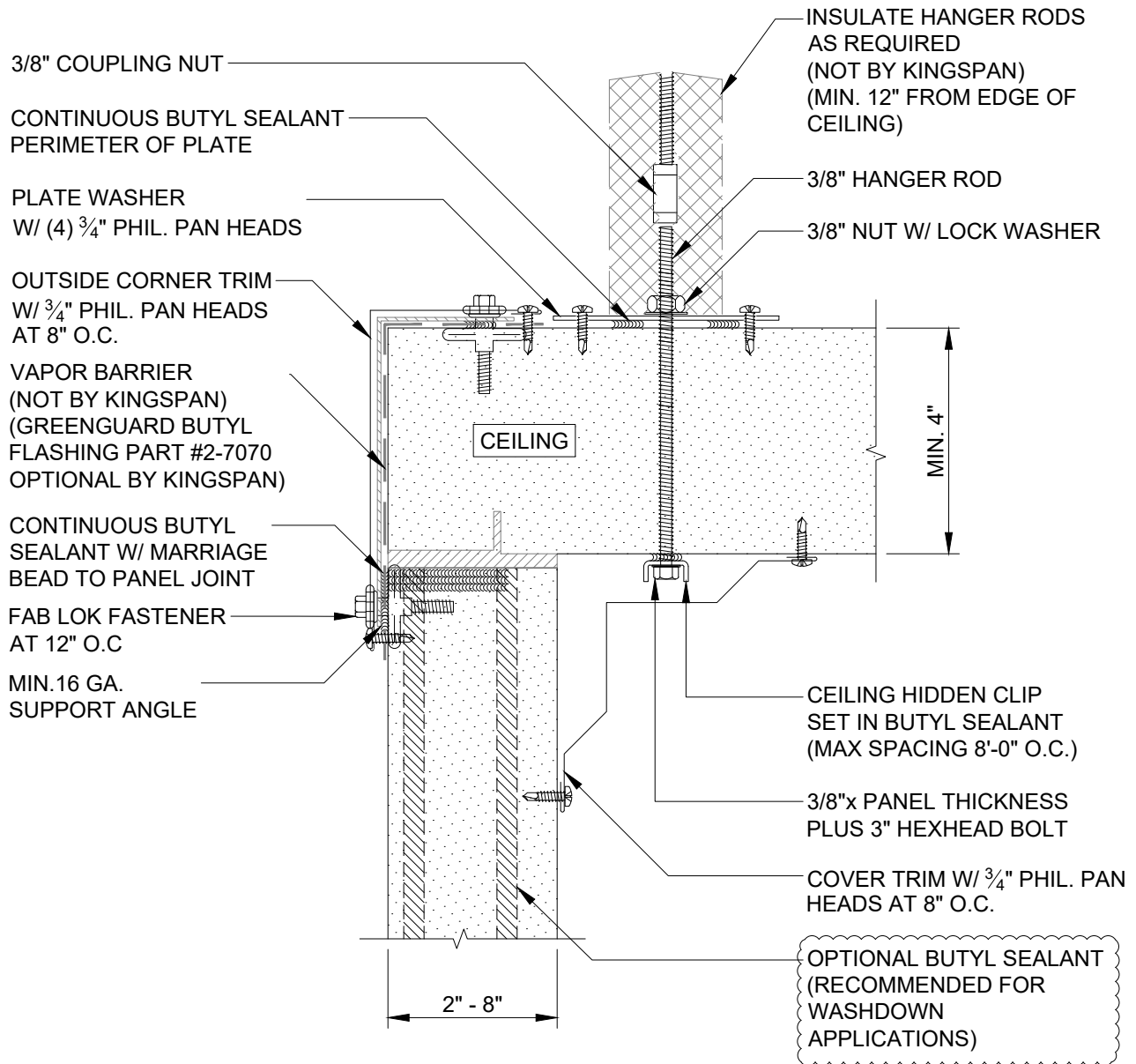
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



REVISION	
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CEILING HIDDEN CLIP
CEILING TO WALL

DETAIL #: CS-HC-03-KSV

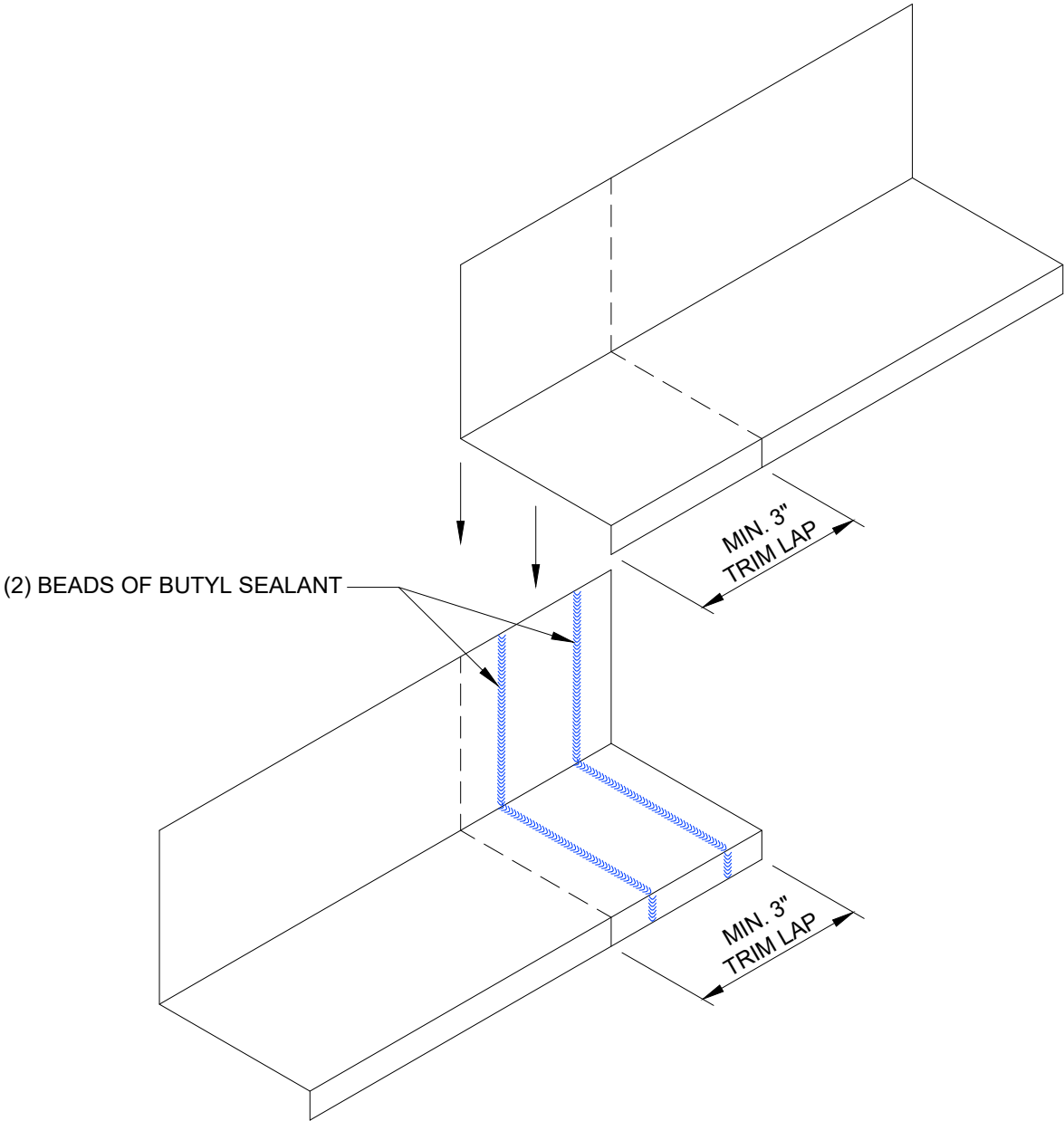
RELEASE: 2026

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



REVISION	
REVISION #	DATE
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TRIM END LAP
FLASHING

DETAIL #: CS-TL-01-KSV
RELEASE: 2026
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

FIELD NOTCH HEM(S)
AS REQUIRED
(NOT BY KINGSPAN)

(2) BEADS OF BUTYL SEALANT

MIN. 3"
TRIM LAP

MIN. 3"
TRIM LAP

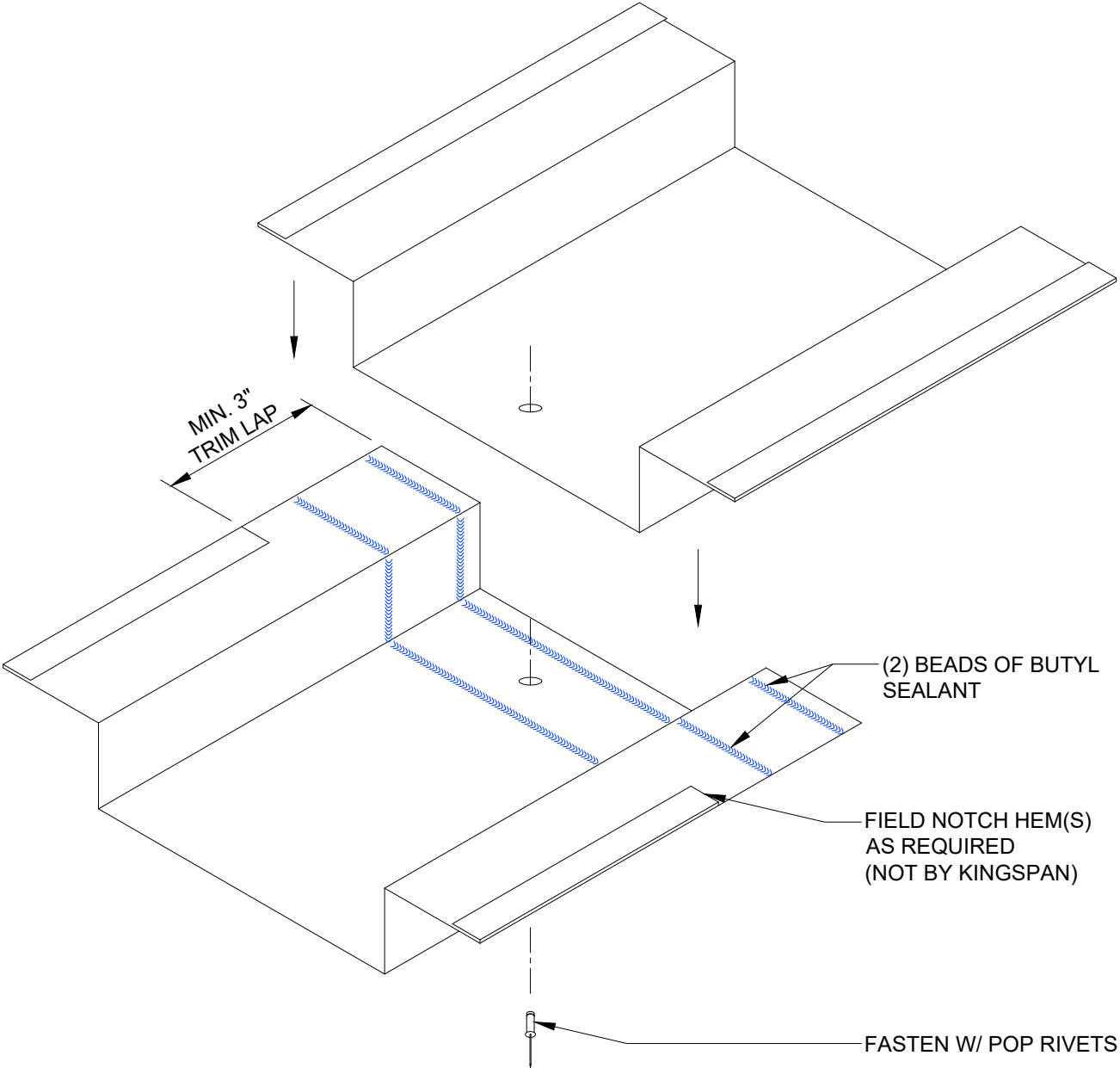
REVISION	
REVISION #	DATE
1	8/5/26

TRIM LAP W/ HEM
CORNER TRIM

DETAIL #: CS-TL-02-KSV
RELEASE: 2026
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



REVISION	
REVISION #	DATE
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TRIM LAP W/ HEM
CEILING CHANNEL TRIM

DETAIL #: CS-TL-03-KSV
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