

KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

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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.

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.

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CONTROLLED ENVIRONMENT
DISCLAIMER

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

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

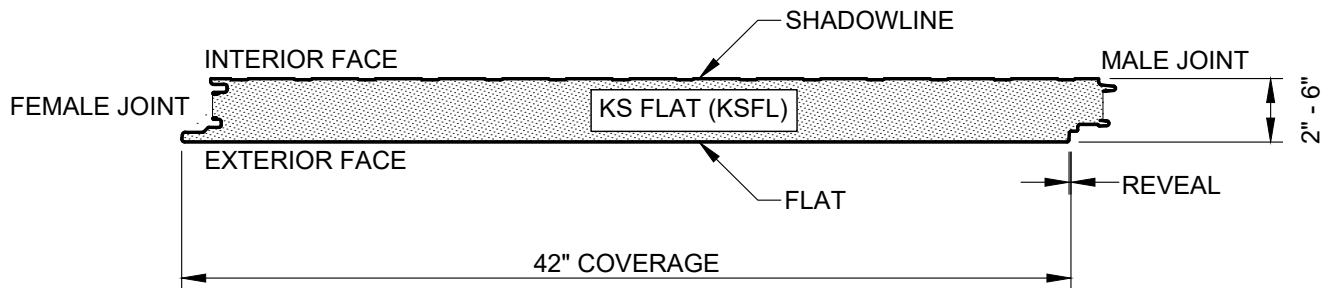
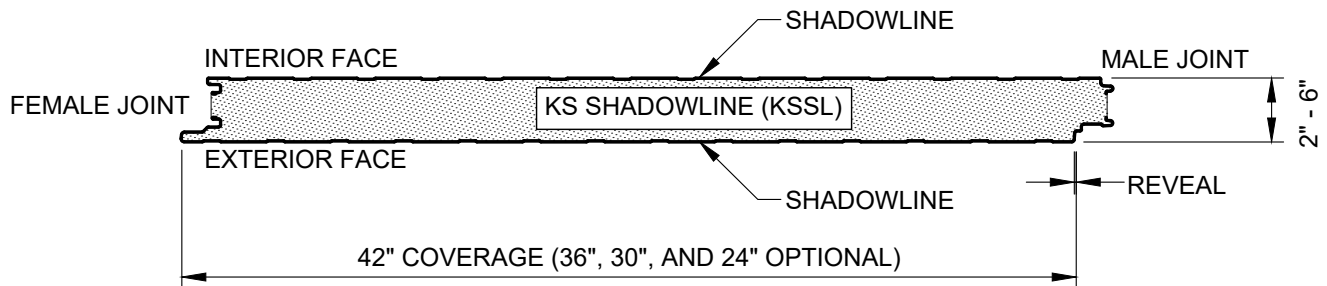
EMBOSSING:
EXTERIOR: STUCCO / SMOOTH
INTERIOR: STUCCO / SMOOTH

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

PANEL ORIENTATION:
VERTICAL

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

REVEAL OPTIONS: 1/8", 3/8"



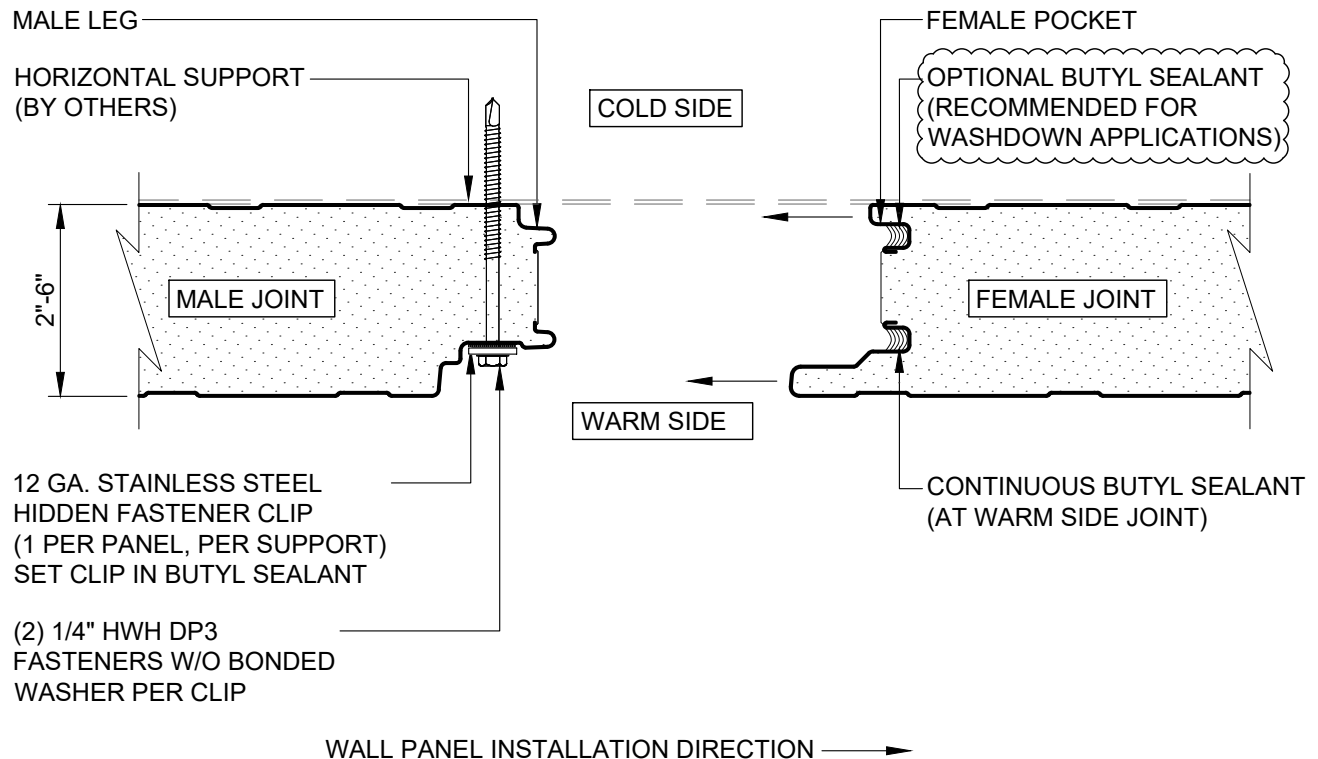
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KS
PANEL PROFILES

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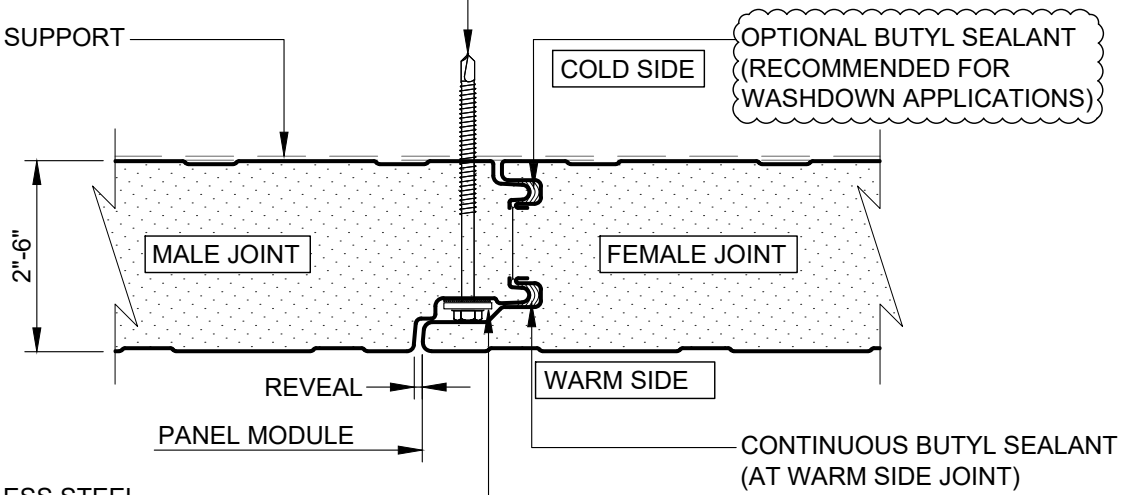
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(2) 1/4" HWH DP3
FASTENERS W/O BONDED
WASHER PER CLIP

HORIZONTAL SUPPORT
(BY OTHERS)



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

WALL PANEL INSTALLATION DIRECTION →

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KS
ENGAGED JOINT

DETAIL #: CS-PJ-02-KSV

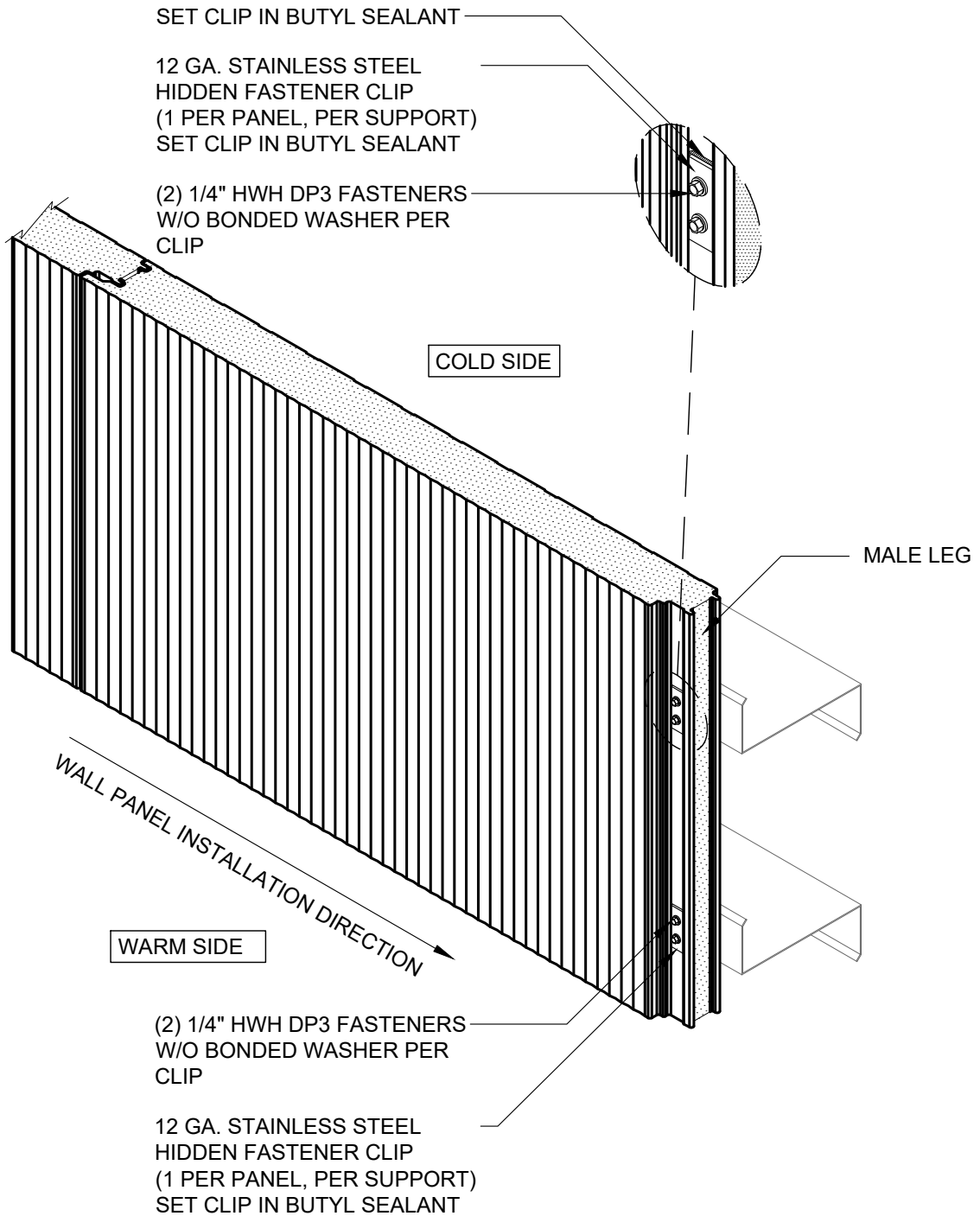
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KS STANDARD FASTENING
ISOMETRIC

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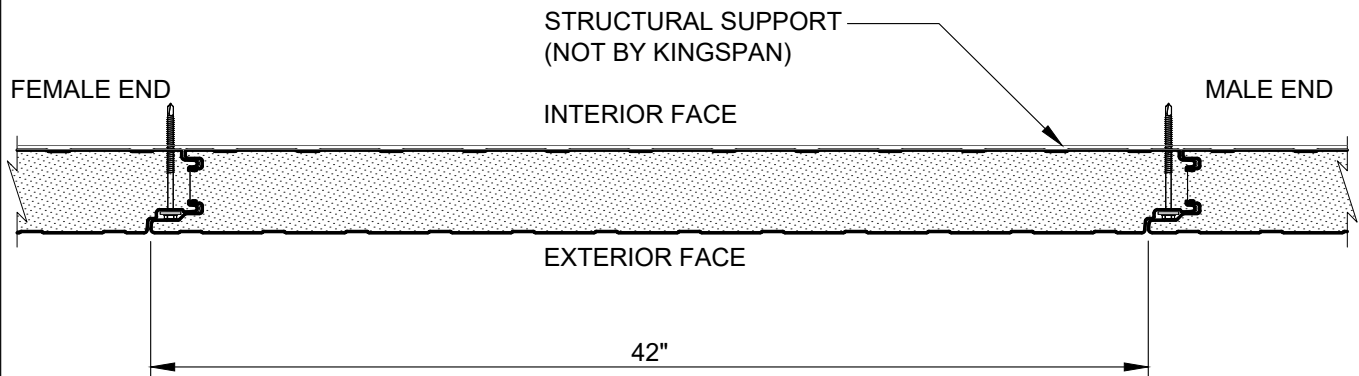
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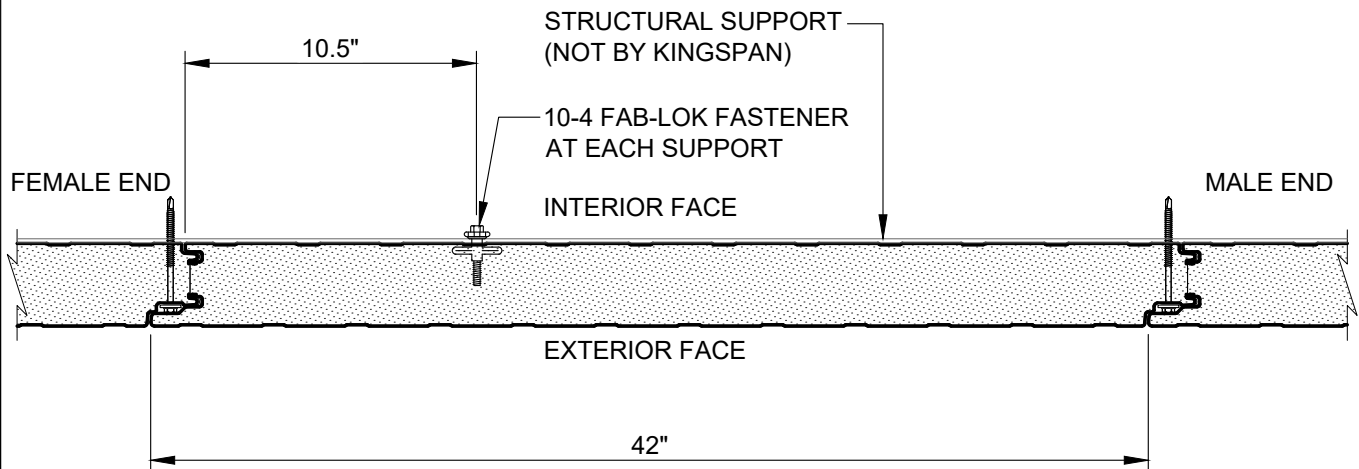
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FASTENING PATTERN 1A
STANDARD SIDE JOINT FASTENING WITH 12GA 2-HOLE CLIP AND 1/4" HWH
DP3 FASTENERS W/O BONDED WASHER PER CLIP



FASTENING PATTERN 2A
STANDARD SIDE JOINT FASTENING WITH 12GA 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"

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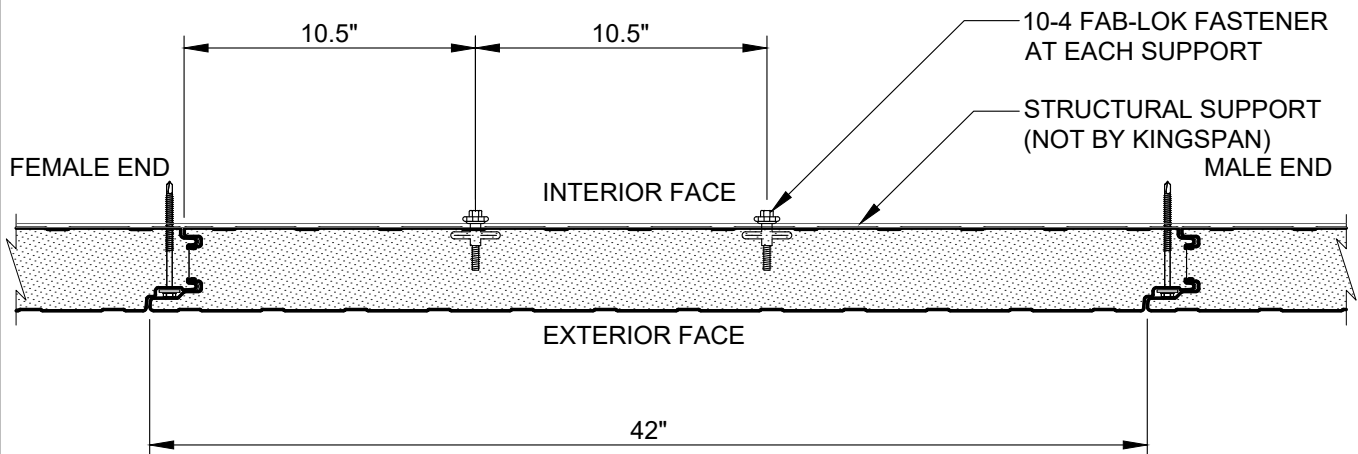
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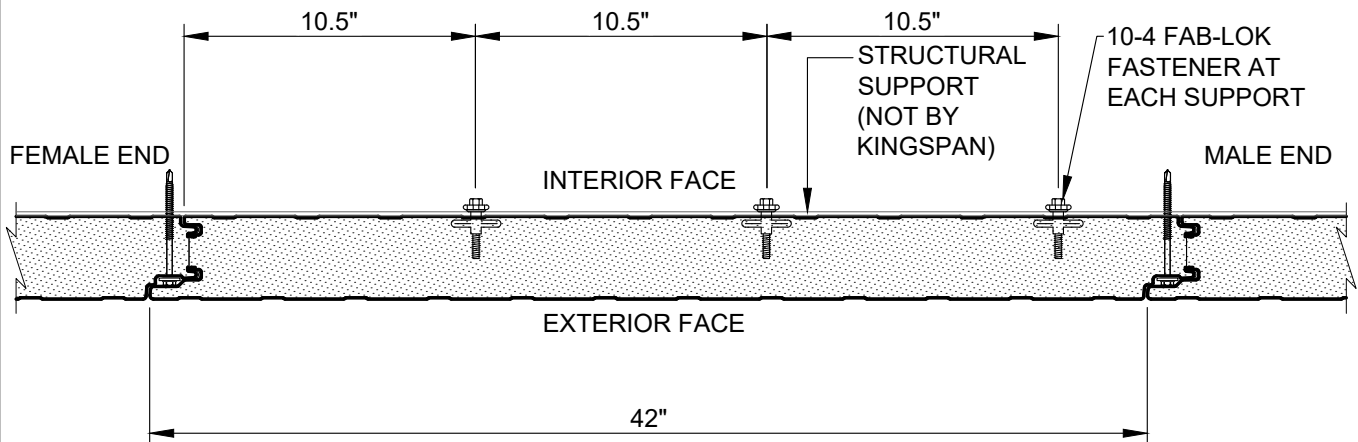
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FASTENING PATTERN 3A
STANDARD SIDE JOINT FASTENING WITH 12GA 2-HOLE CLIP AND 1/4" HWH DP3 FASTENERS W/O BONDED WASHER PER CLIP / 2 ADDITIONAL FAB-LOK FASTENERS SPACED AT 10.5" FROM FEMALE JOINT



FASTENING PATTERN 4A
STANDARD SIDE JOINT FASTENING WITH 12GA 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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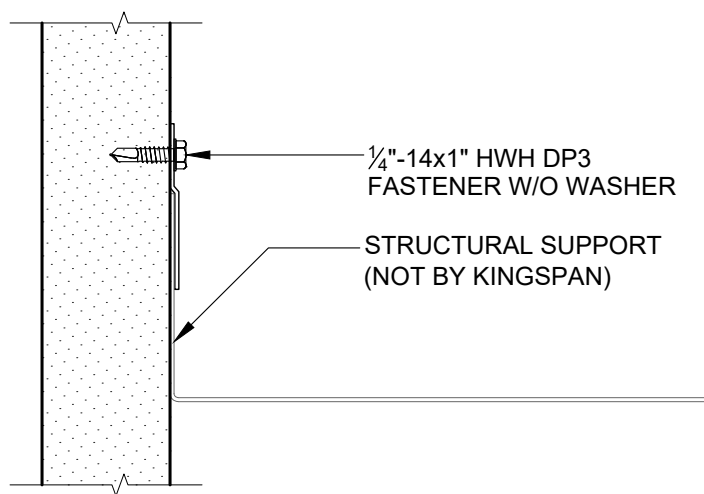
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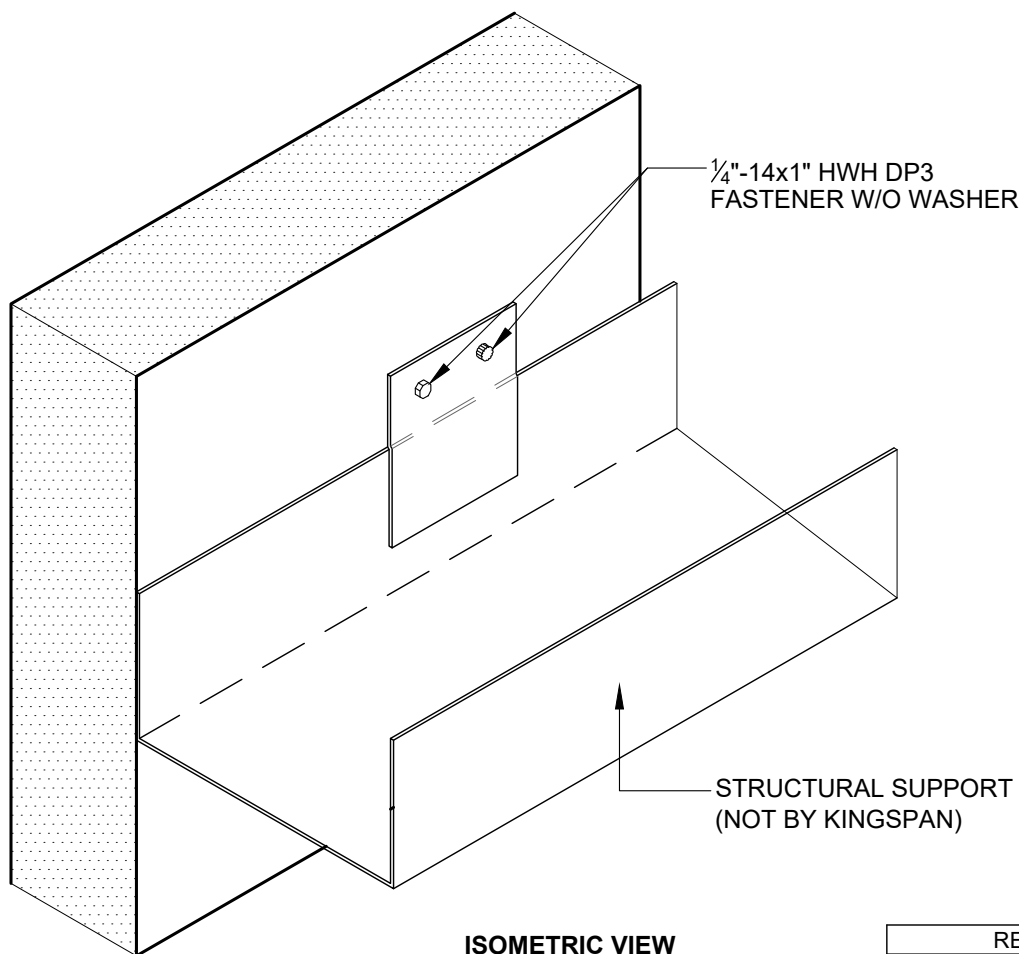
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SECTION



ISOMETRIC VIEW

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GIRT CLIP SECTION & ISOMETRIC

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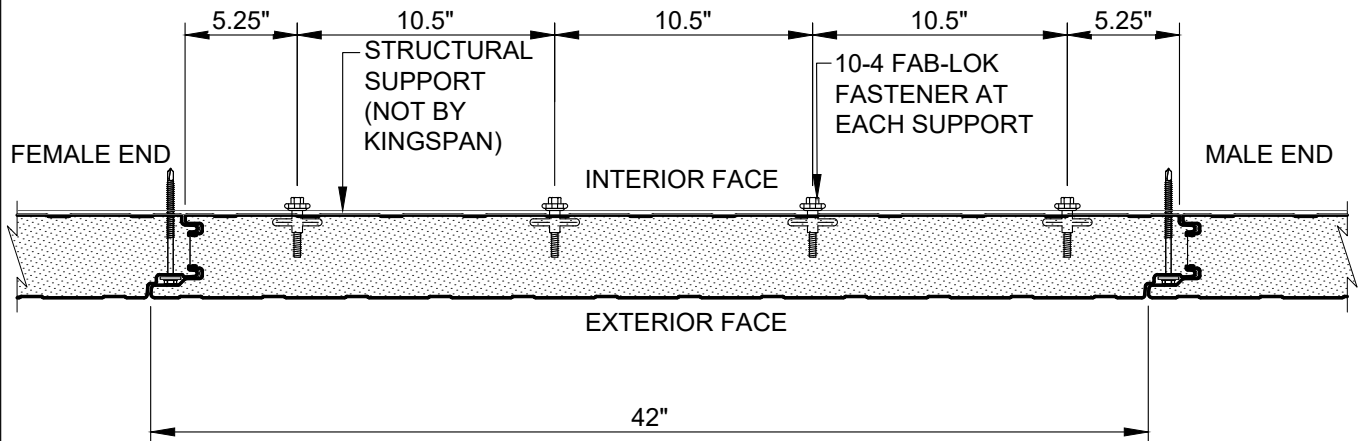
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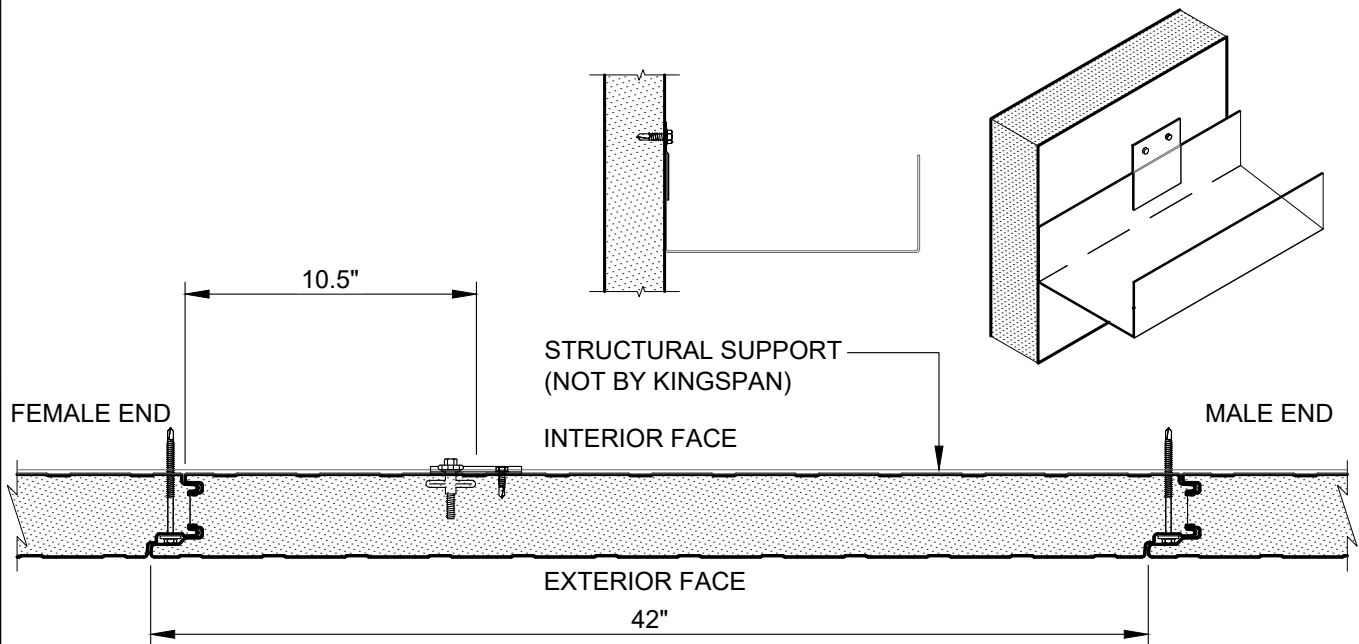


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FASTENING PATTERN 5A

STANDARD SIDE JOINT FASTENING WITH 12GA 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 12GA 2-HOLE CLIP AND 1/4" HWH DP3 FASTENERS W/O BONDED WASHER PER CLIP / ADDITIONAL GIRT CLIP WITH (1) FAB-LOK FASTENER AND (1) 1/4"-14 x 1" 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

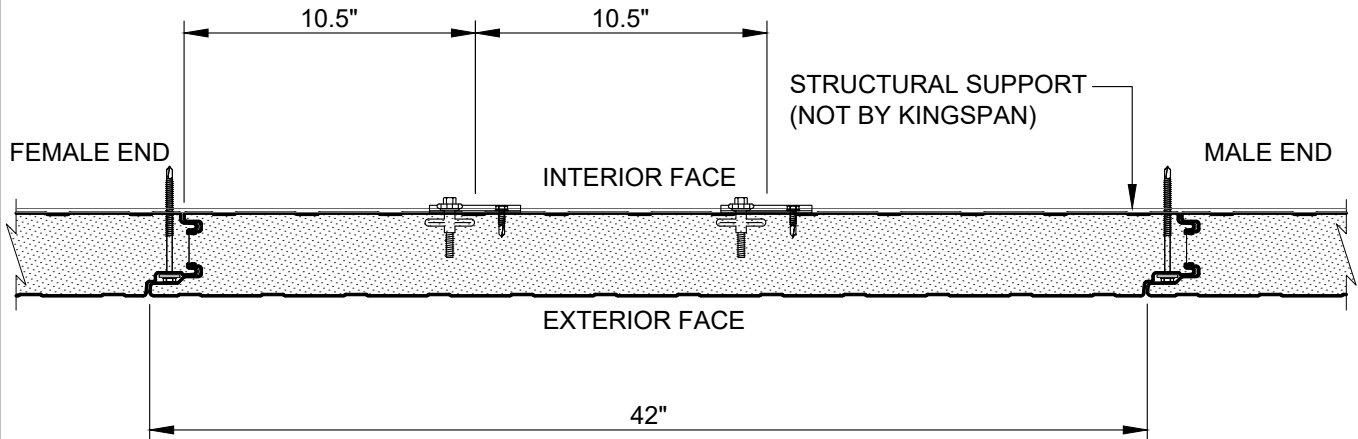
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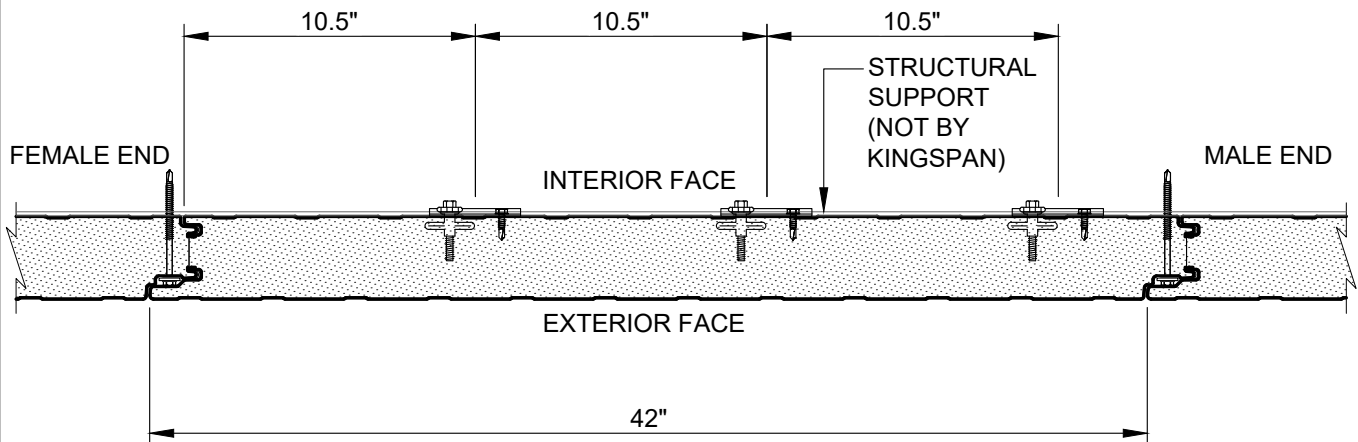


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FASTENING PATTERN 7A

STANDARD SIDE JOINT FASTENING WITH 12GA 2-HOLE CLIP AND 1/4" HWH DP3 FASTENERS W/O BONDED WASHER PER CLIP / 2 - ADDITIONAL GIRT CLIPS WITH (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 12GA 2-HOLE CLIP AND 1/4" HWH DP3 FASTENERS W/O BONDED WASHER PER CLIP / 3 - ADDITIONAL GIRT CLIPS WITH (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"

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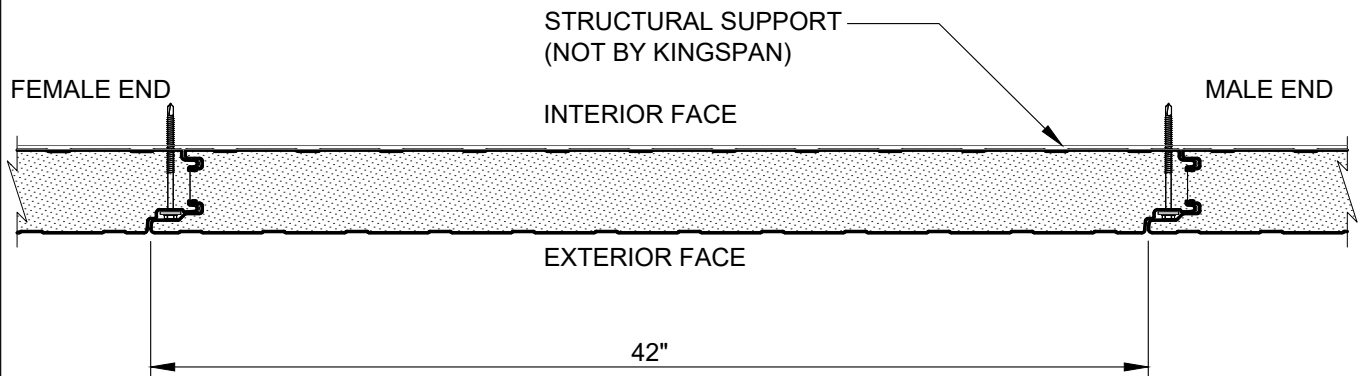
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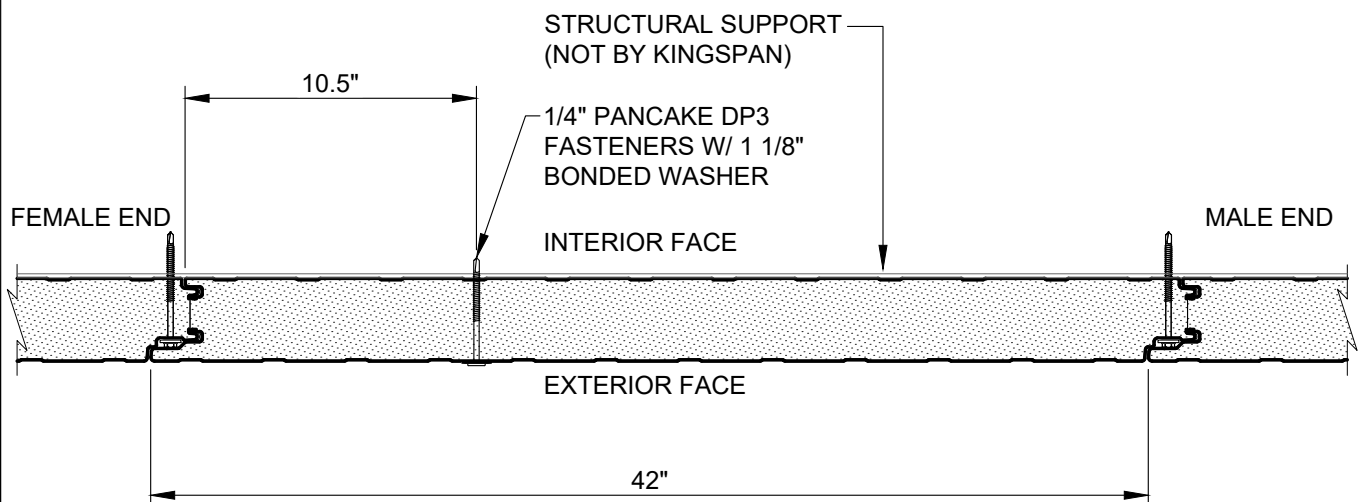
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FASTENING PATTERN 1B
STANDARD SIDE JOINT FASTENING WITH 12GA 2-HOLE CLIP AND 1/4" HWH
DP3 FASTENERS W/O BONDED WASHER PER CLIP



FASTENING PATTERN 2B
STANDARD SIDE JOINT FASTENING WITH 12GA 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"

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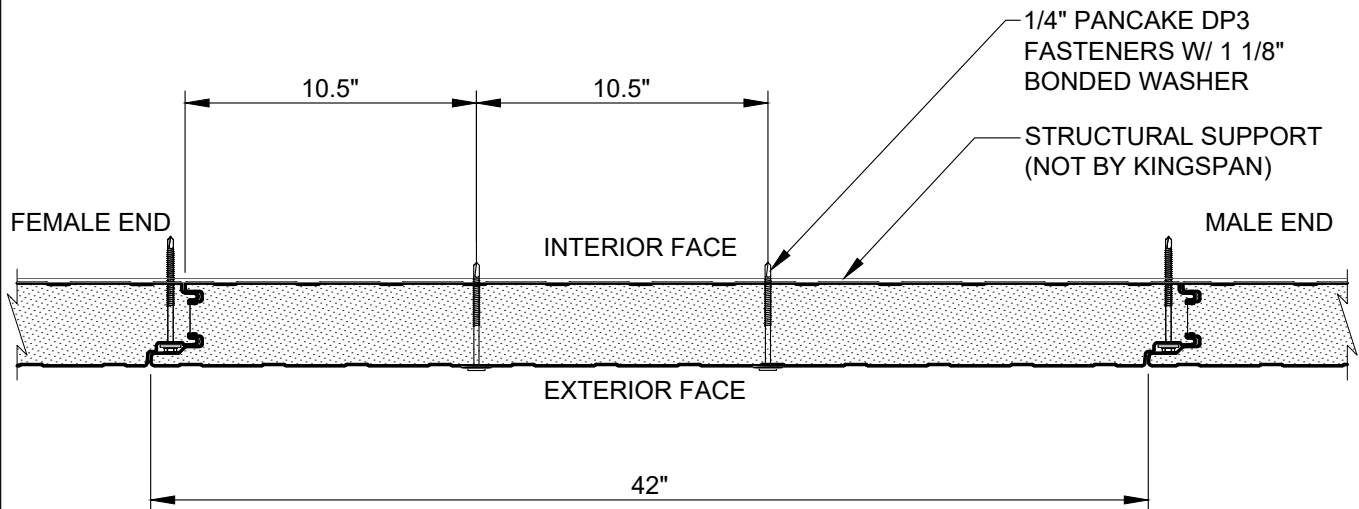
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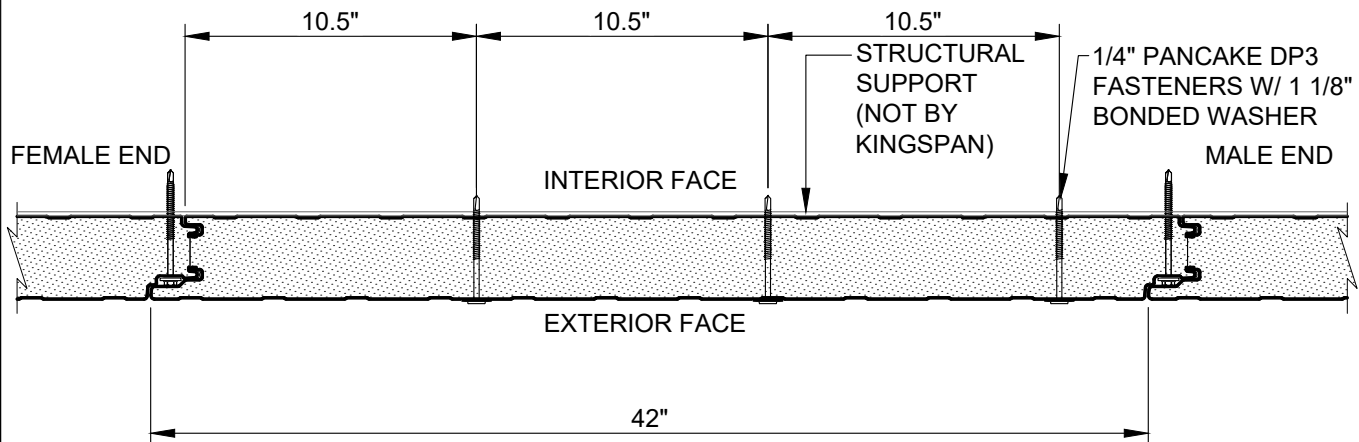
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FASTENING PATTERN 3B
 STANDARD SIDE JOINT FASTENING WITH 12GA 2-HOLE CLIP AND 1/4" HWH
 DP3 FASTENERS W/O BONDED WASHER PER CLIP / 2 ADDITIONAL 1/4"
 PANCAKE DP3 FASTENERS W/ 1 1/8" BONDED WASHER SPACED AT 10.5"
 FROM FEMALE JOINT



FASTENING PATTERN 4B
 STANDARD SIDE JOINT FASTENING WITH 12GA 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

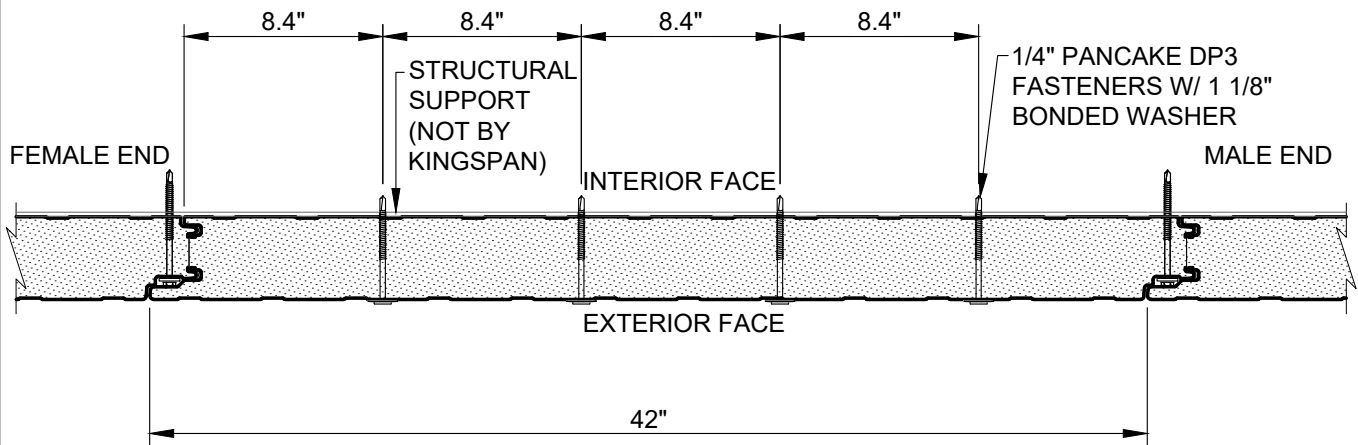
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FASTENING PATTERN
KS "3B" - "4B"

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FASTENING PATTERN 5B
STANDARD SIDE JOINT FASTENING WITH 12GA 2-HOLE CLIP AND 1/4" HWH
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

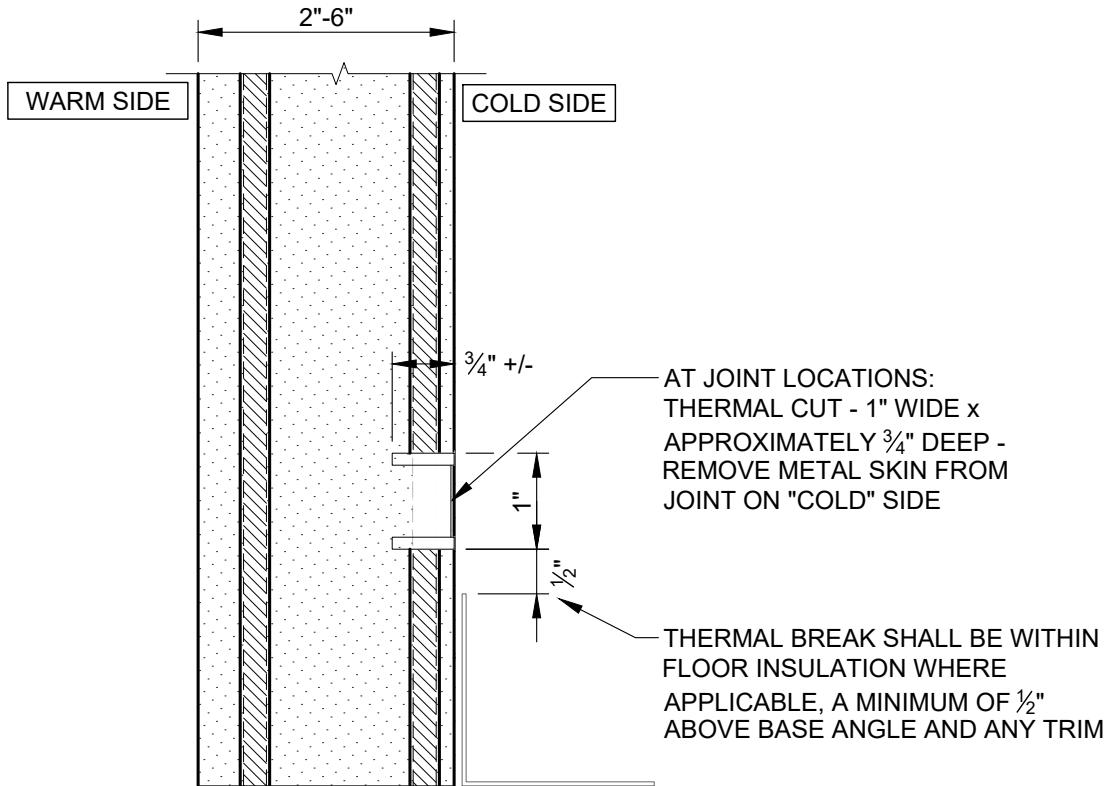
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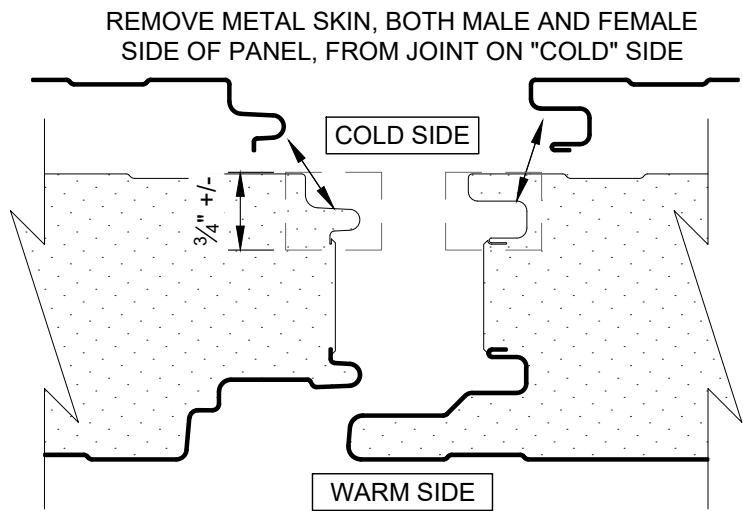
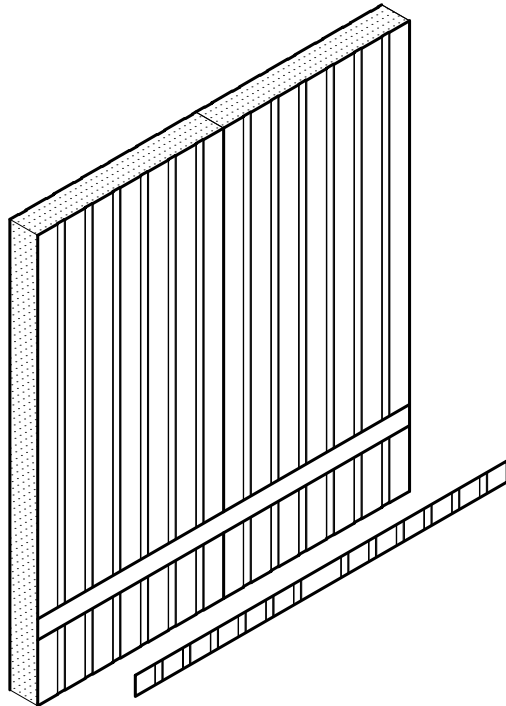
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THERMAL BREAK SECTION CUT



THERMAL BREAK PLAN CUT

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KS THERMAL CUT AT JOINT

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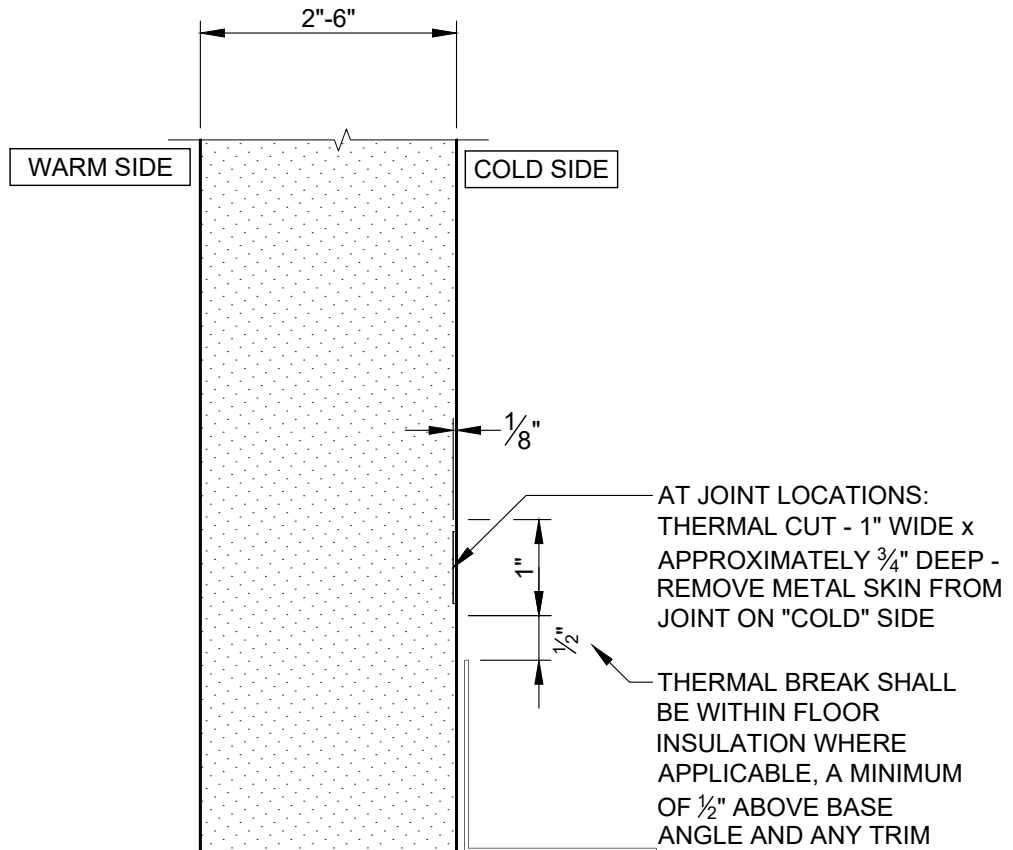
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KS THERMAL CUT AT FIELD

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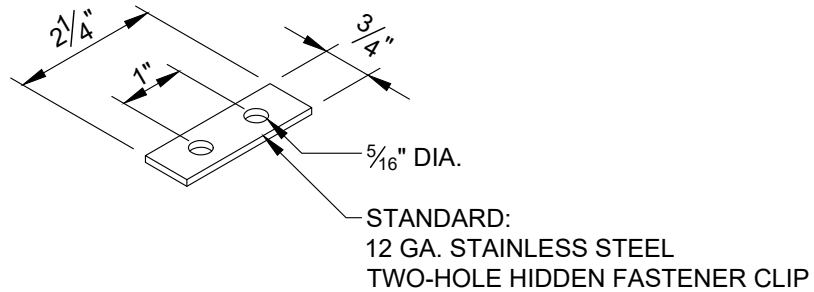
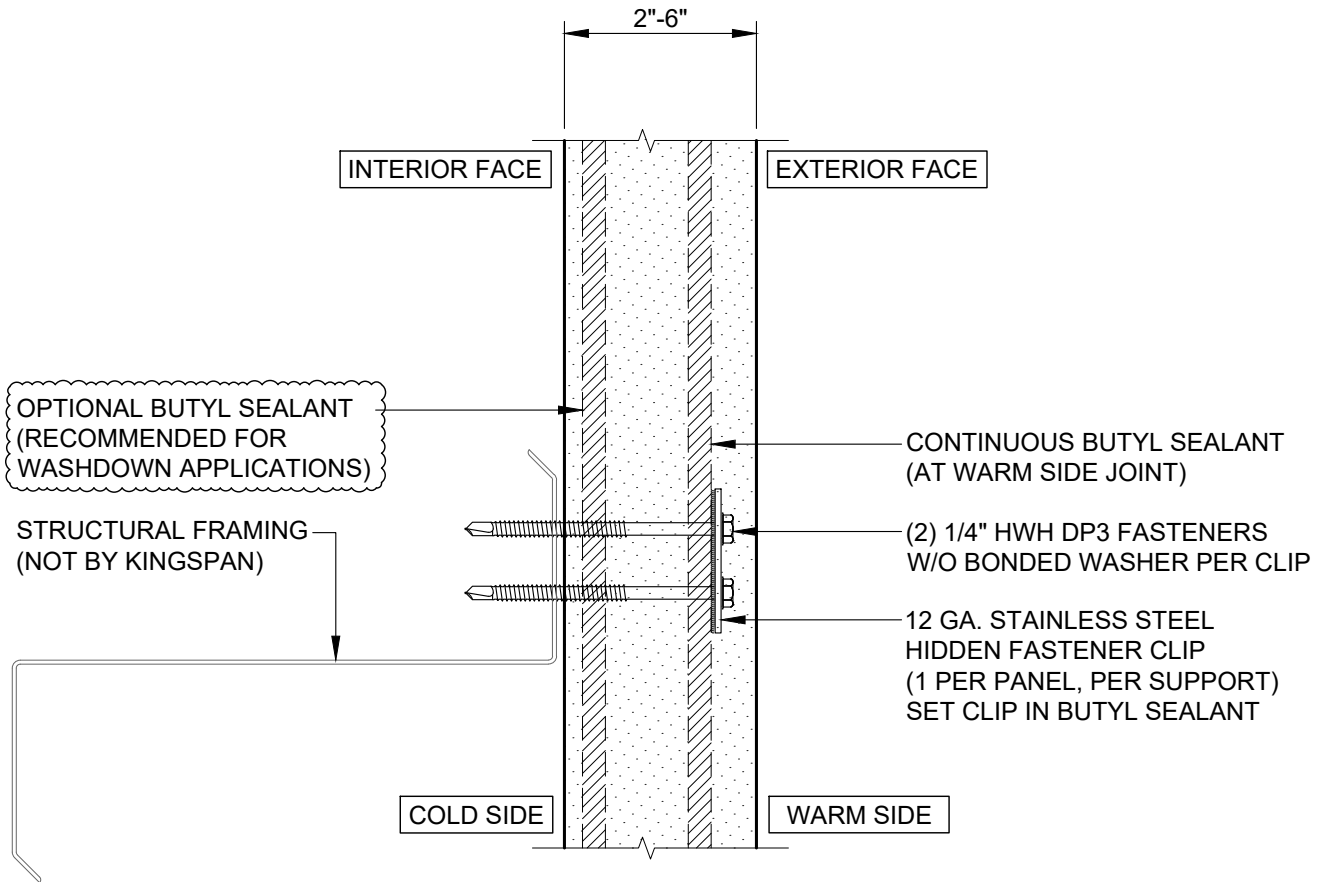
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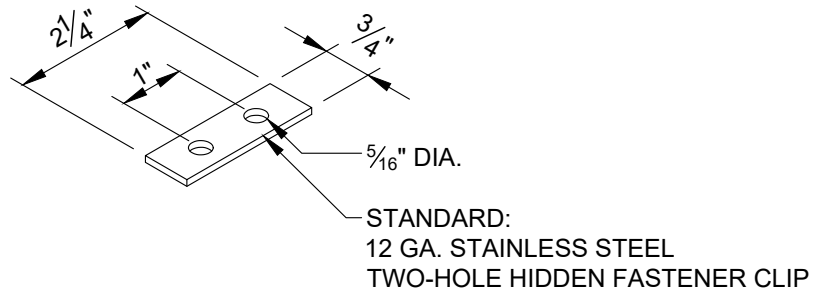
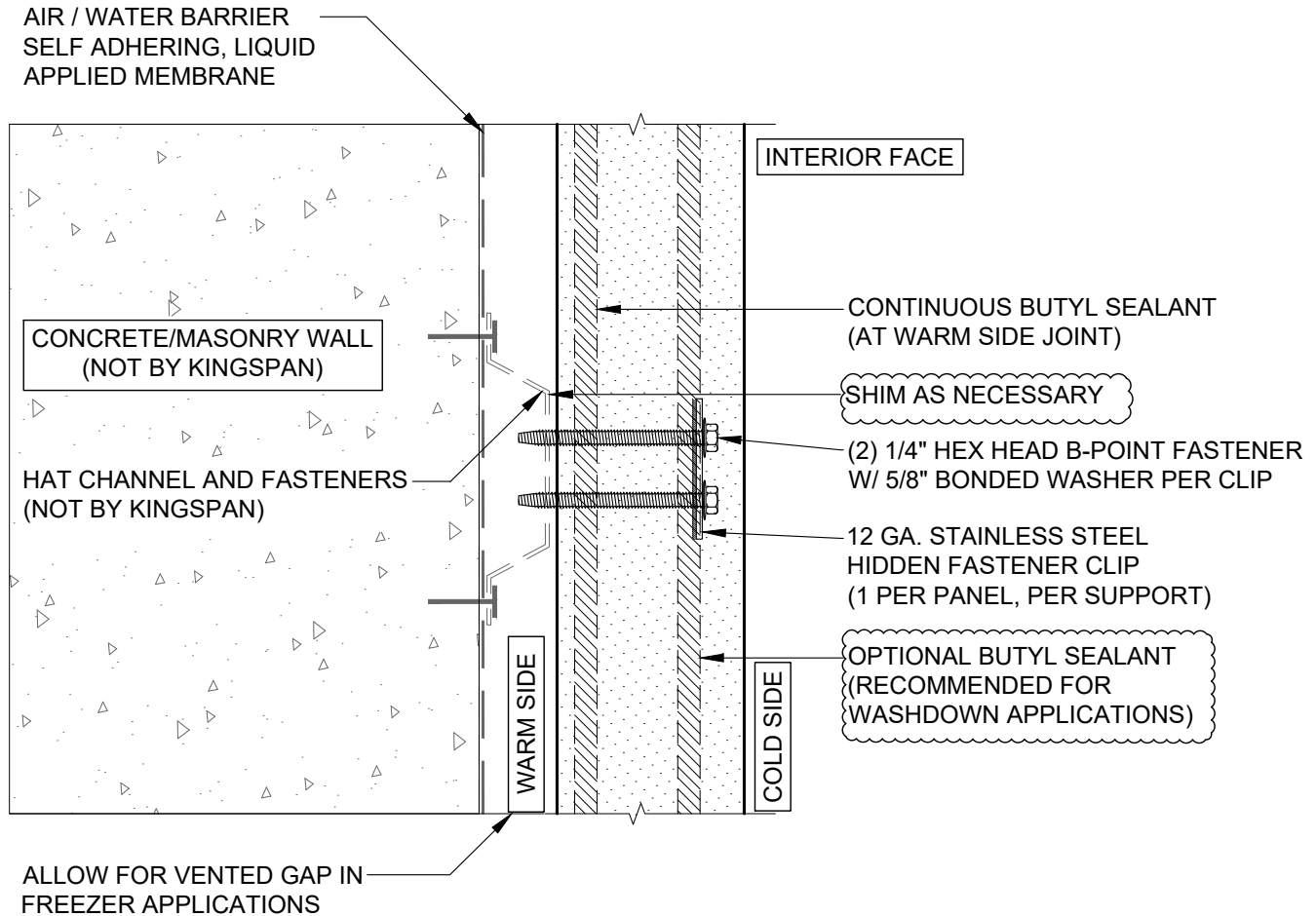
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STANDARD JOINT FASTENING
STEEL FRAMING

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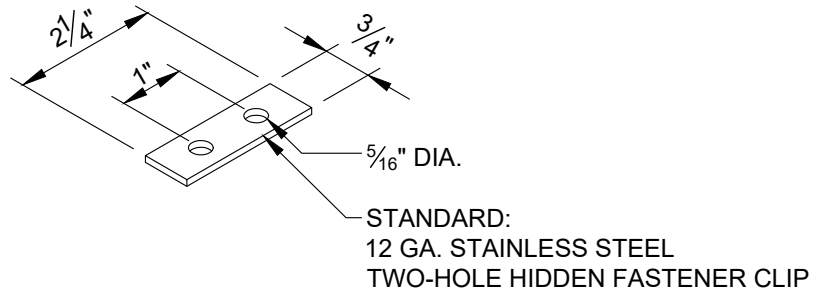
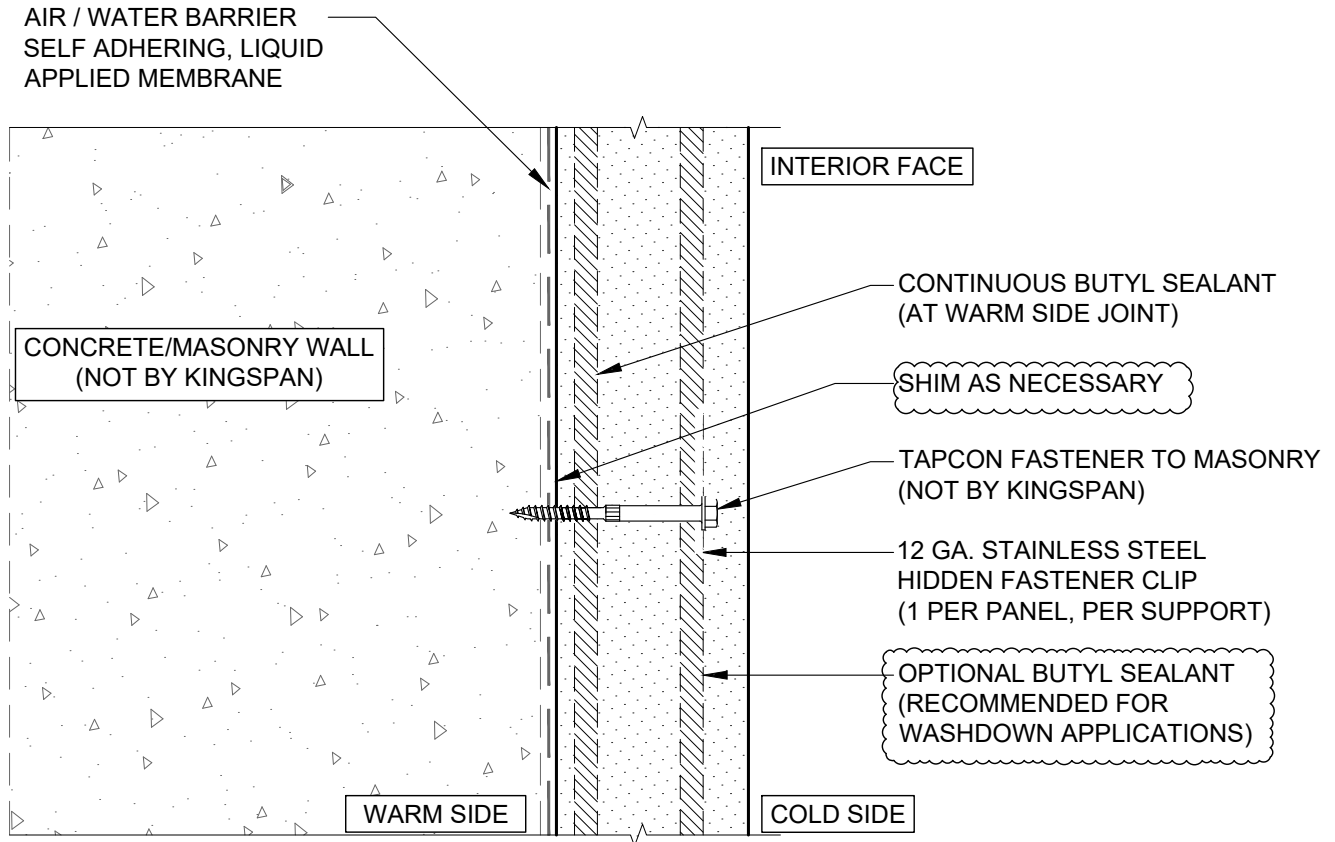
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REVISION #	DATE
0	12/5/25

STANDARD JOINT FASTENING
HAT CHANNEL ON CMU

DETAIL #: CS-JF-02-KSV
RELEASE: 2025
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



CONTACT KINGSPAN TECHNICAL SERVICES FOR
PANEL ALLOWABLE SPANS AND FASTENING PATTERNS

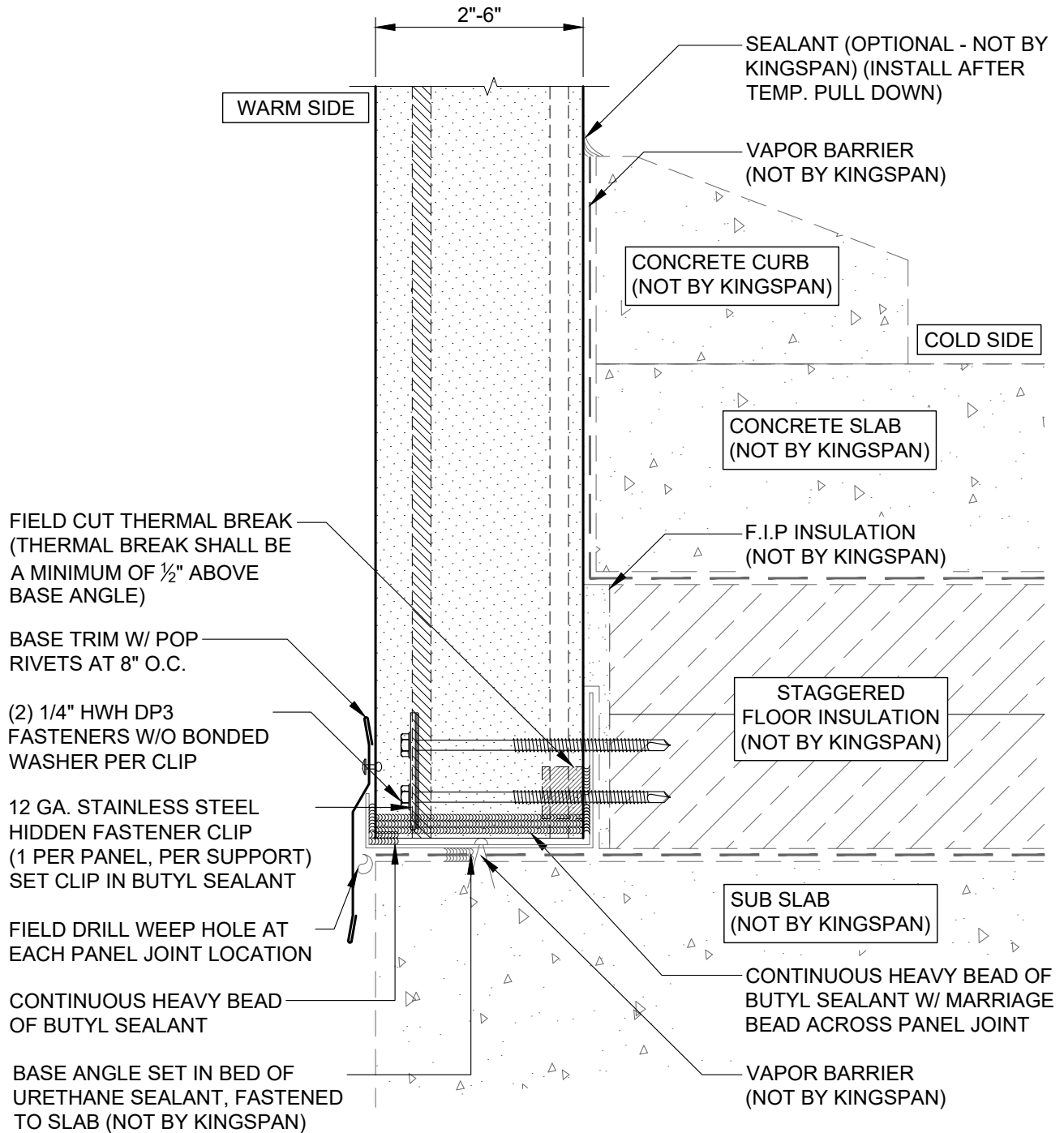
REVISION	
REVISION #	DATE
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STANDARD JOINT FASTENING
CMU

DETAIL #: CS-JF-03-KSV
RELEASE: 2025
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	
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BASE DETAIL
INSULATED SLAB BASE CHANNEL

DETAIL #: CS-BS-01-KSV

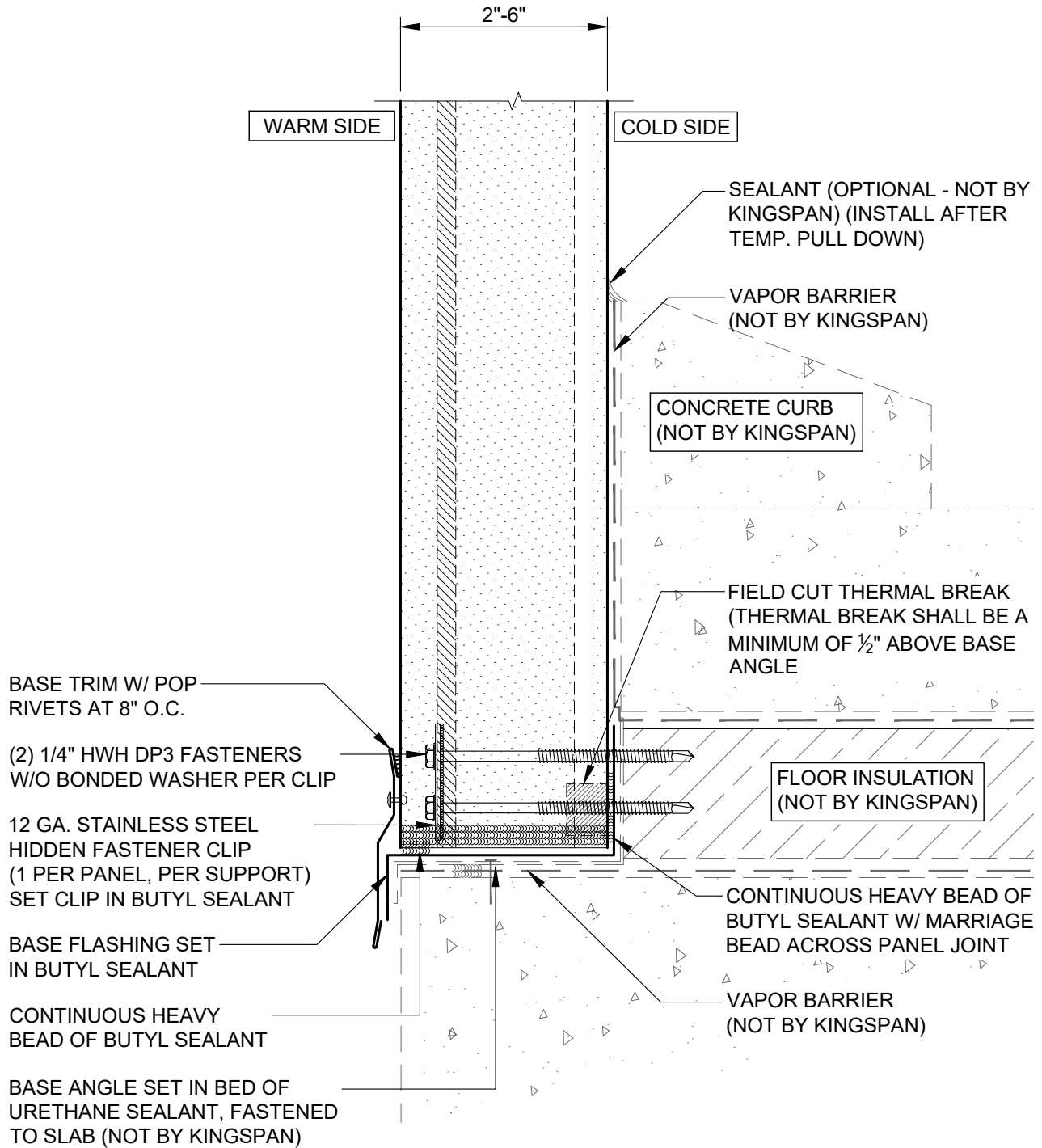
RELEASE: 2025

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

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REVISION #	DATE
0	12/5/25

BASE DETAIL
INSULATED SLAB "Z" BASE ANGLE

DETAIL #: CS-BS-02-KSV

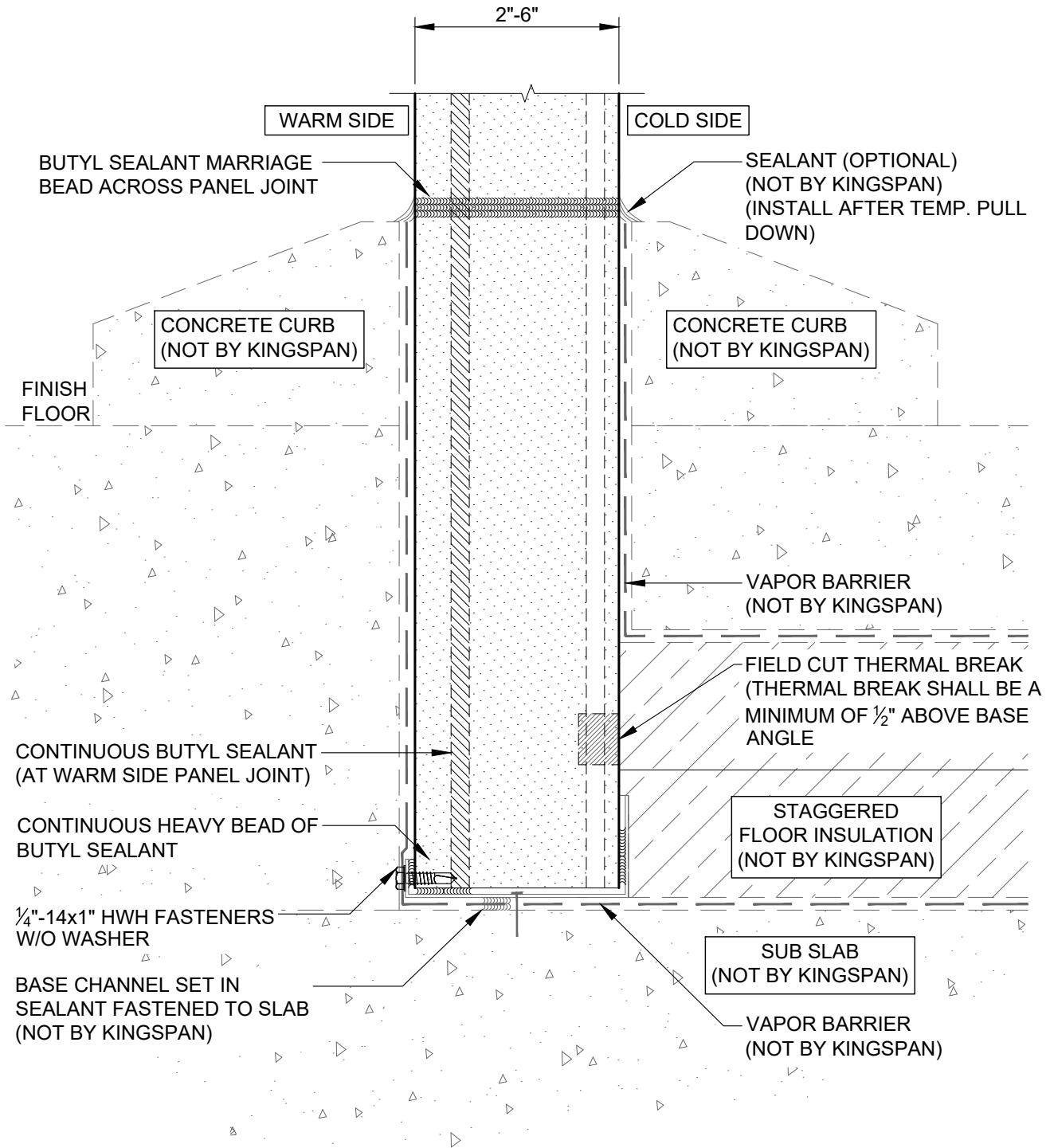
RELEASE: 2025

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

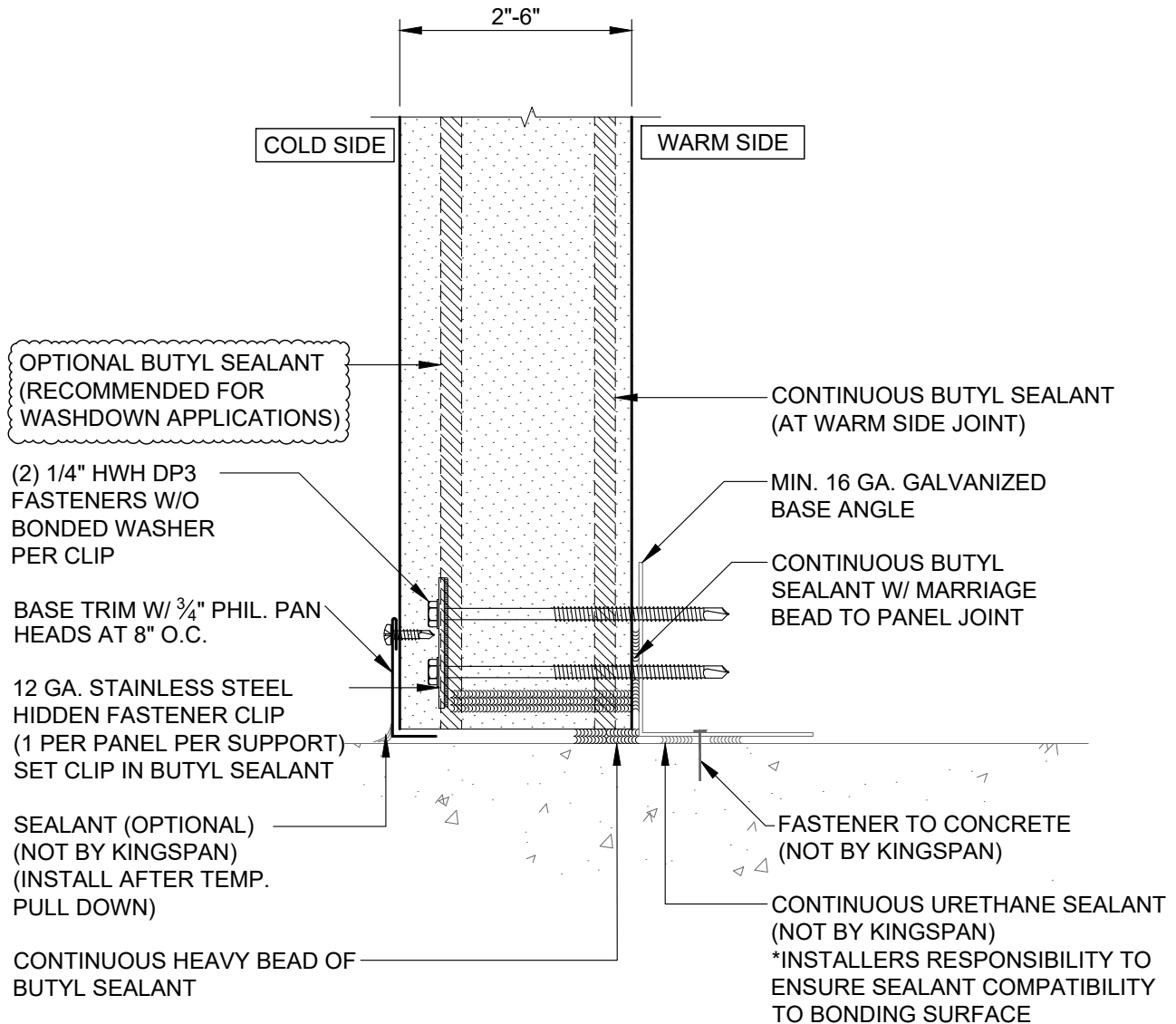
RELEASE: 2025

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	
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BASE DETAIL
PARTITION LINER PANEL

DETAIL #: CS-BS-04-KSV

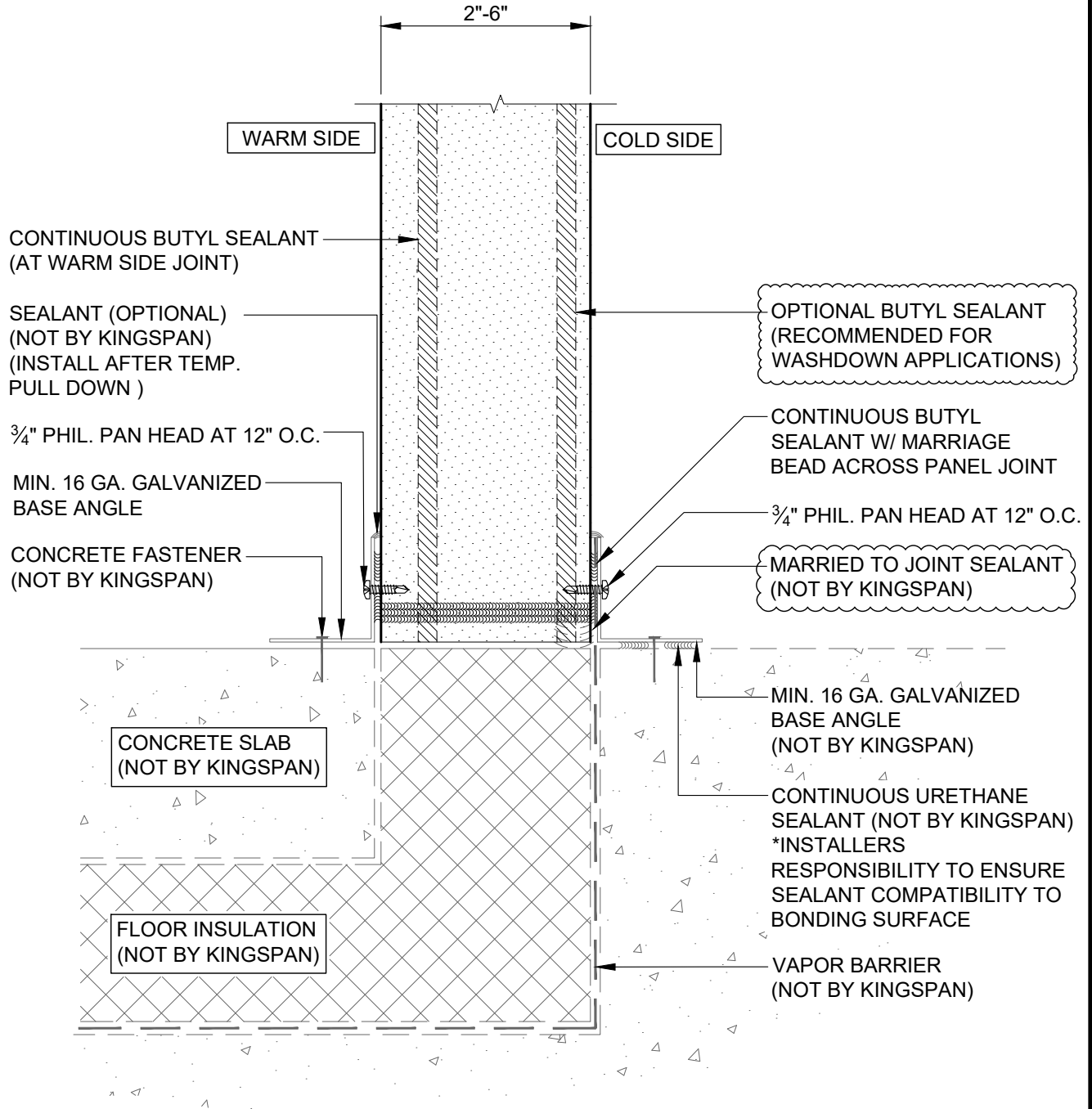
RELEASE: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



REVISION	
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BASE DETAIL
PARTITION W/ INSULATED FLOOR

DETAIL #: CS-BS-05-KSV

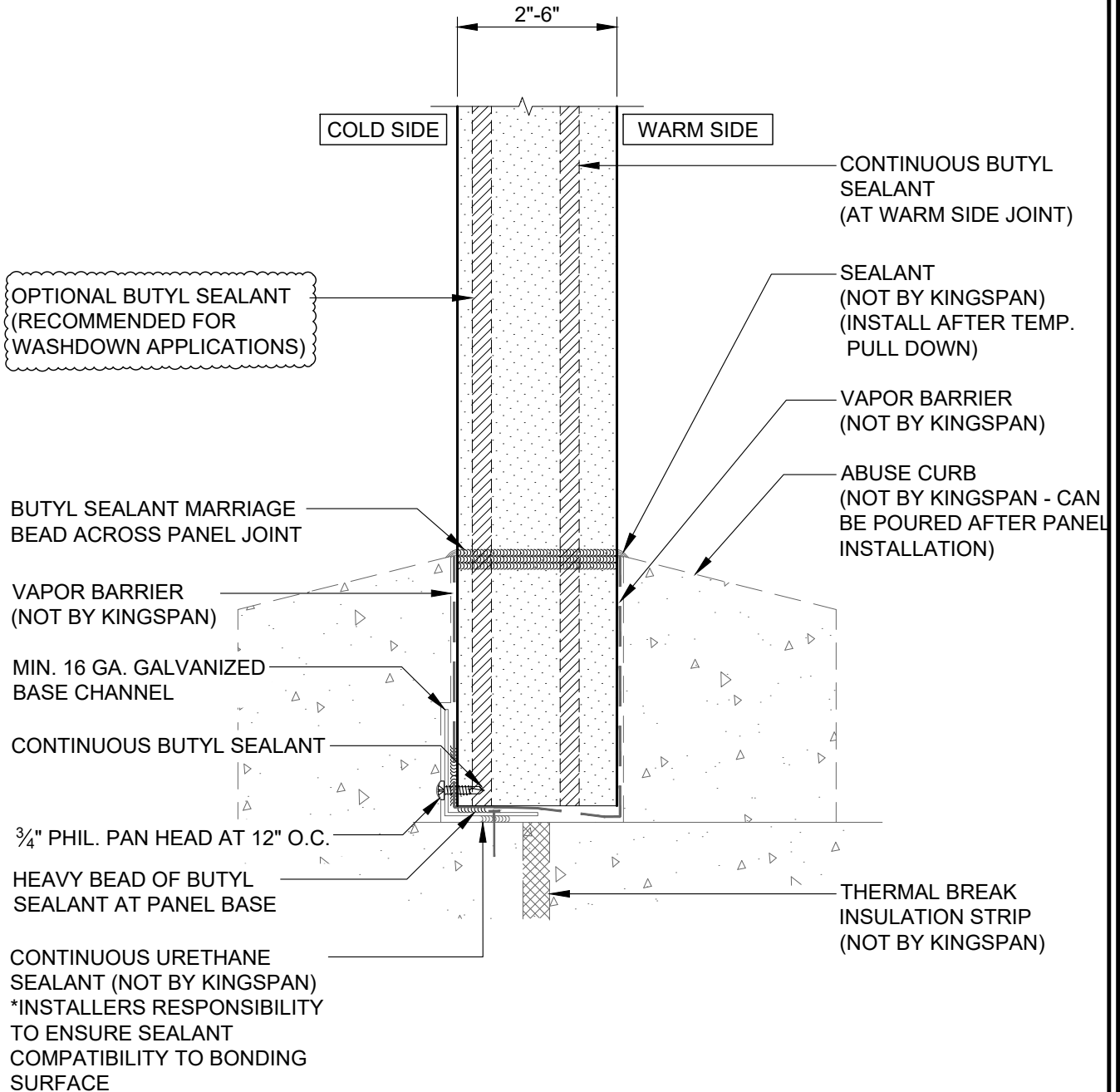
RELEASE: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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BASE DETAIL
PARTITION W/ CURB
THERMAL BREAK IN SLAB

DETAIL #: CS-BS-06-KSV

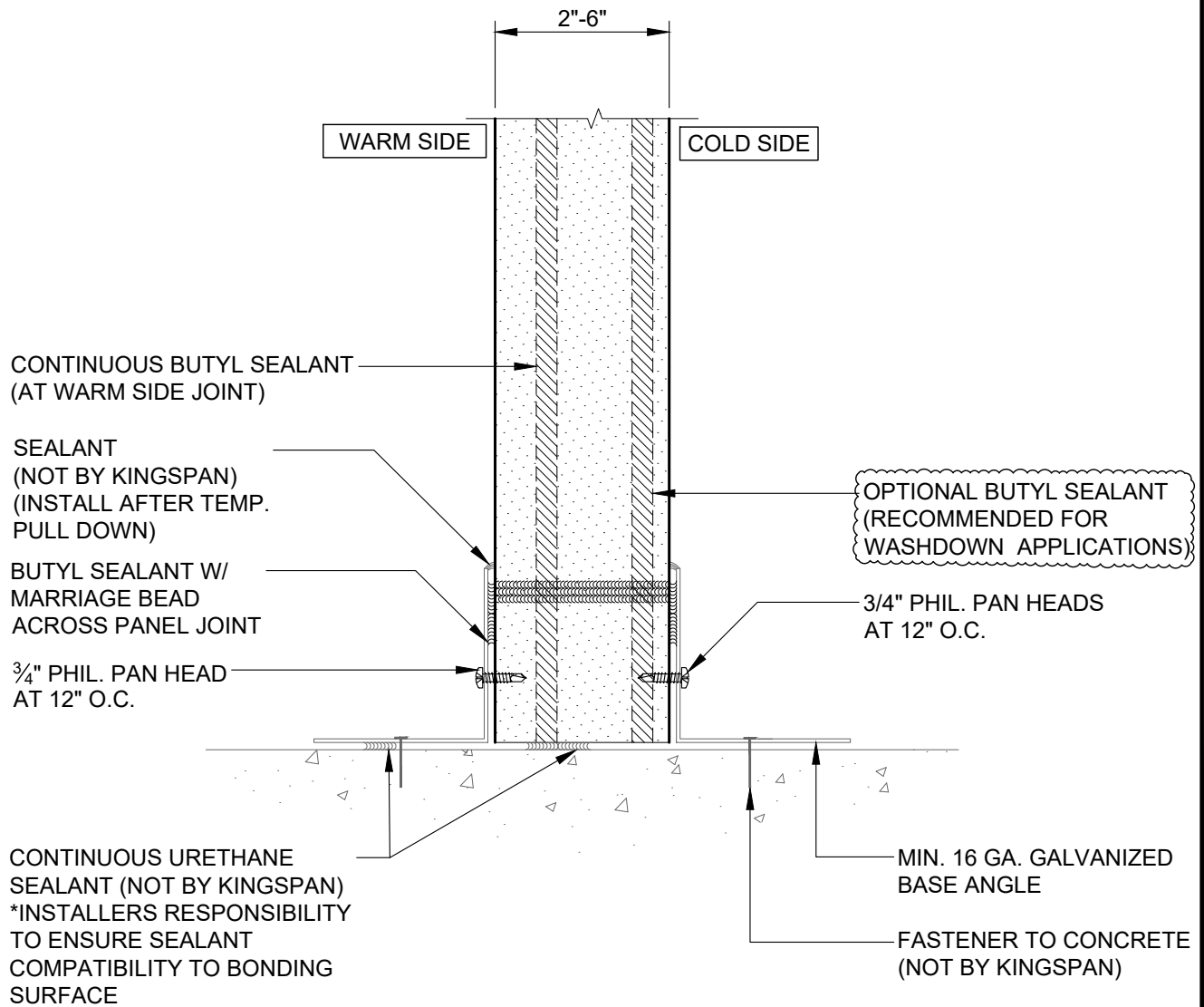
RELEASE: 2025

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
0	12/5/25

BASE DETAIL
PARTITION WALL

DETAIL #: CS-BS-07-KSV

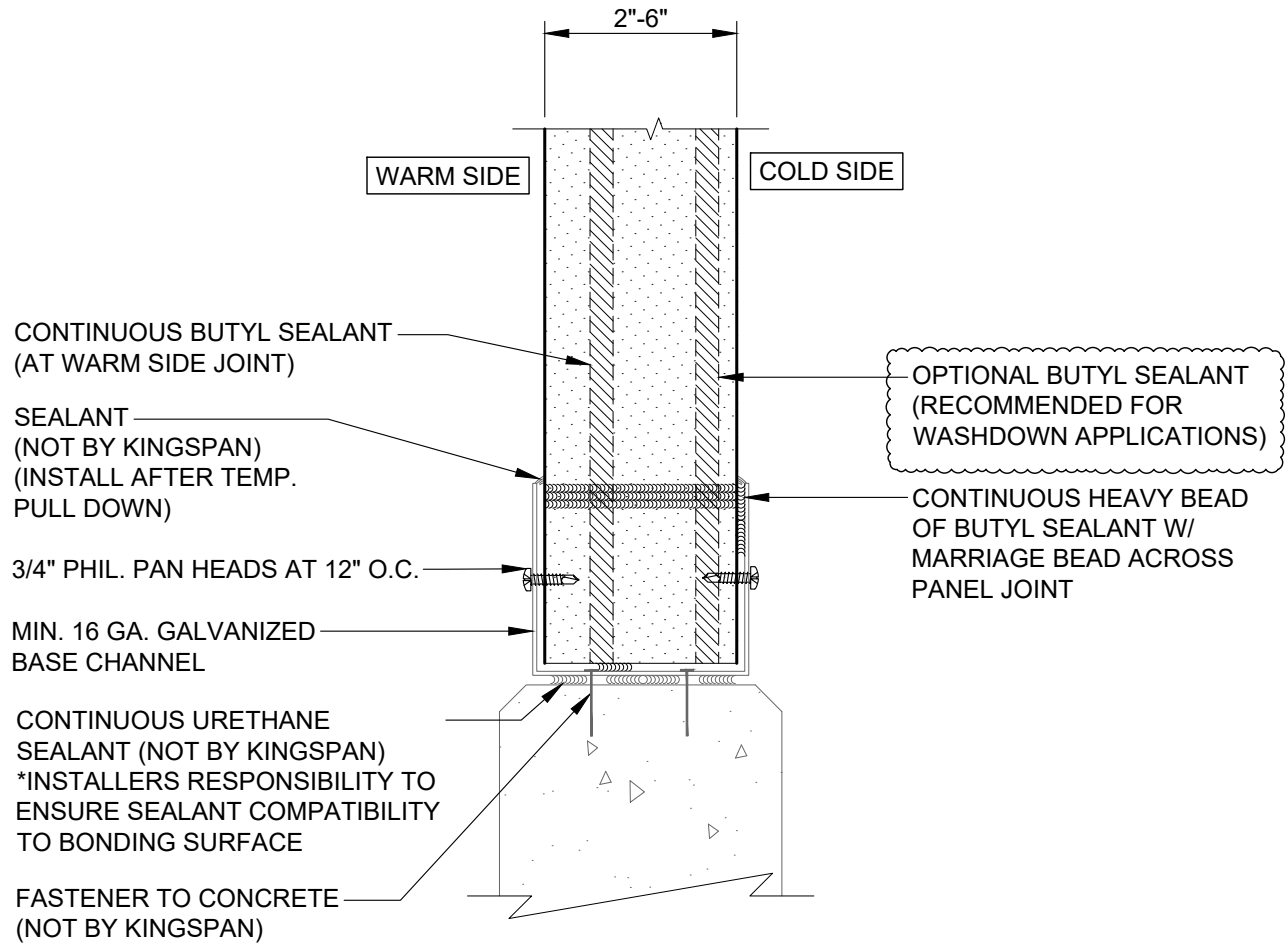
RELEASE: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



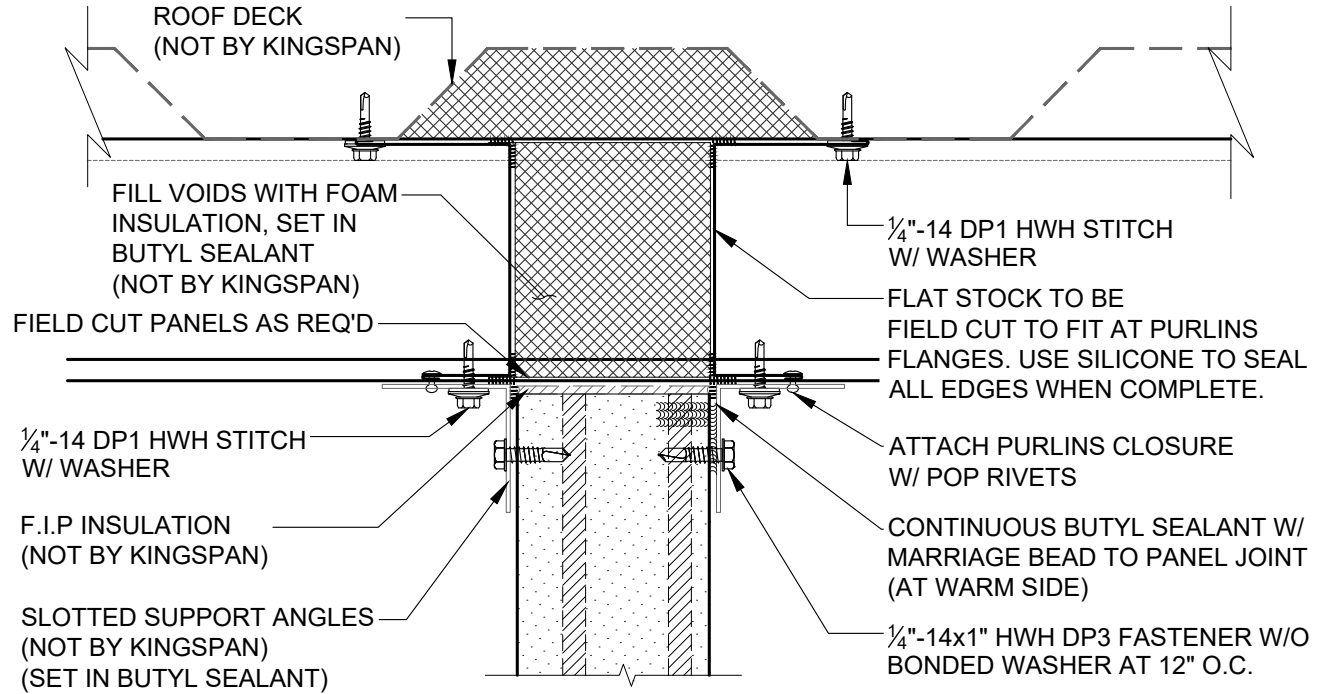
REVISION	
REVISION #	DATE
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BASE DETAIL
PARTITION WALL ON CURB

DETAIL #: CS-BS-08-KSV
RELEASE: 2025
REGION: NORTH AMERICA
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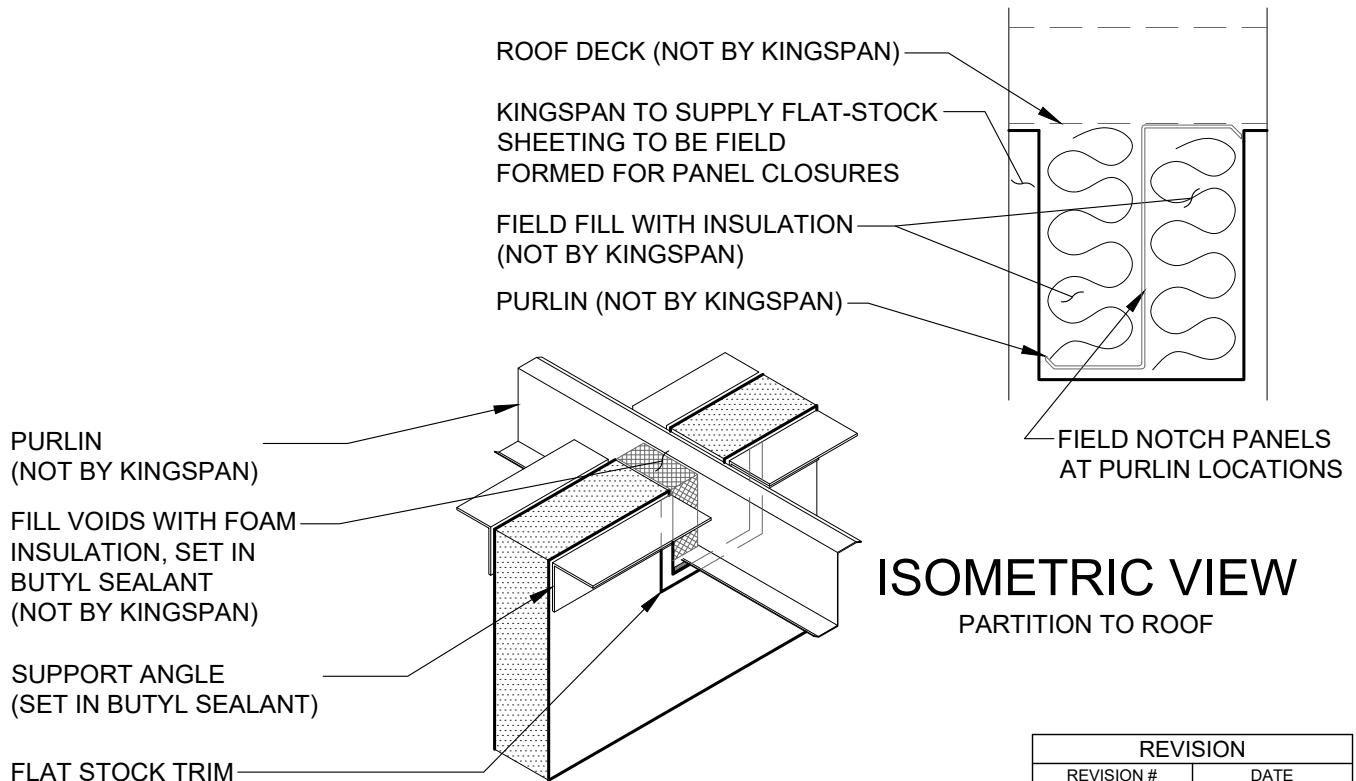


KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



PARTITION TO ROOF (WITH FOAM INSULATION)

(PERPENDICULAR TO PURLIN)



ISOMETRIC VIEW

PARTITION TO ROOF

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PARTITION WALL TO FLOOR / ROOF

DETAIL #: CS-PR-01-KSV

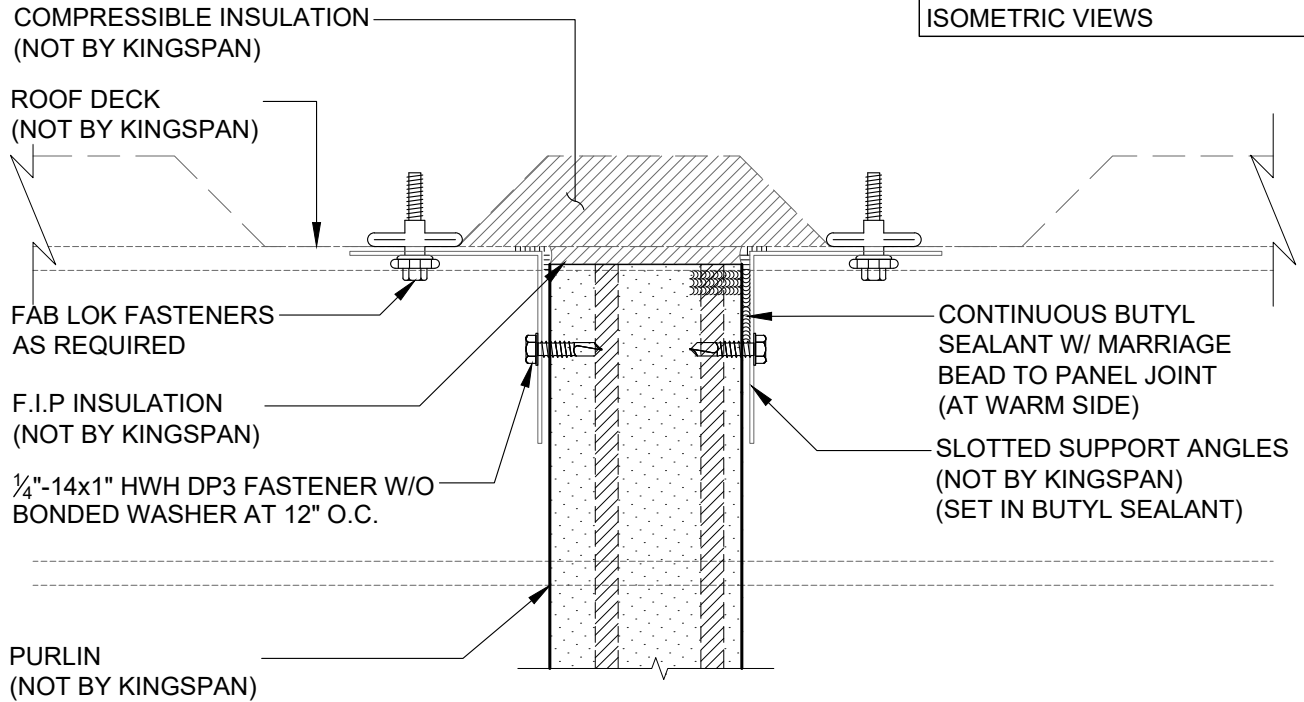
RELEASE: 2025

REGION: NORTH AMERICA

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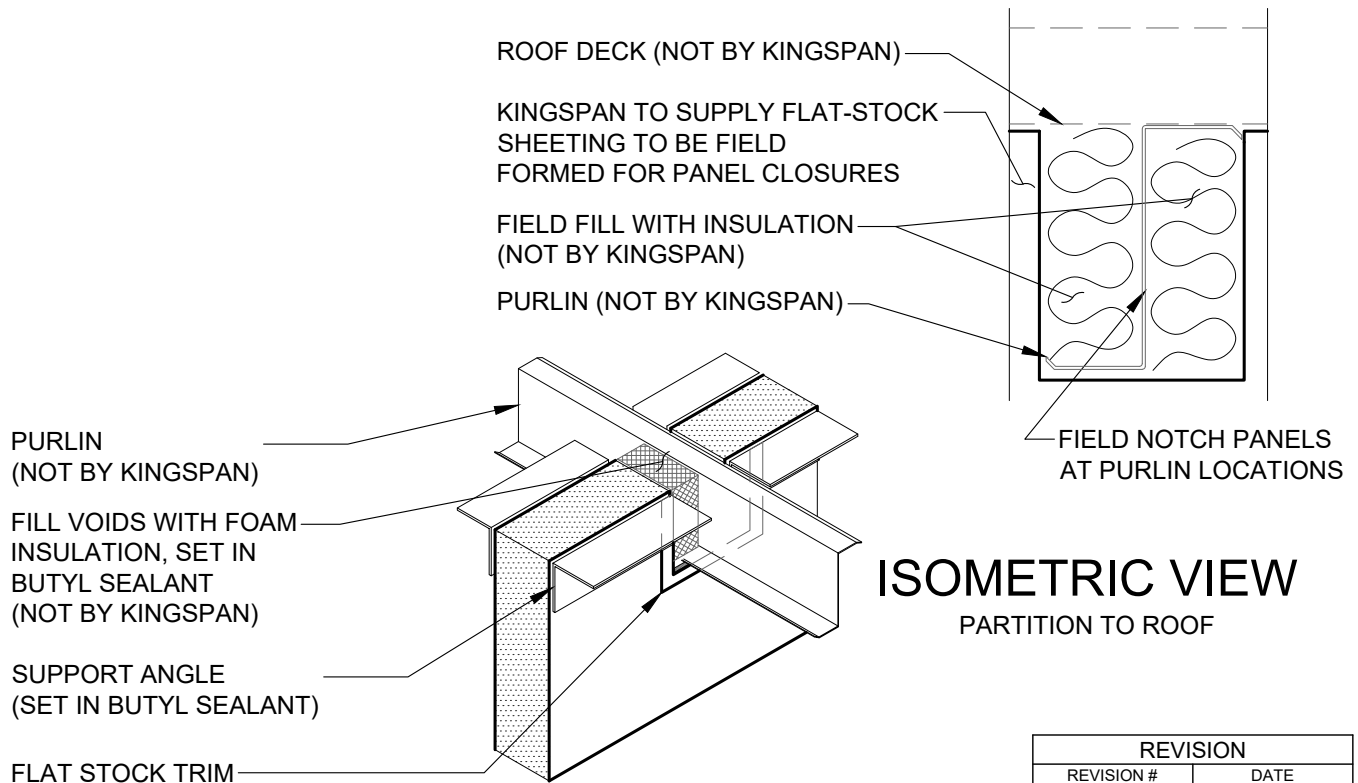


KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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

PARTITION TO ROOF (PERPENDICULAR TO PURLIN)



ISOMETRIC VIEW PARTITION TO ROOF

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REVISION #	DATE
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PARTITION WALL TO FLOOR / ROOF
THROUGH FRAMING

DETAIL #: CS-PR-02-KSV

RELEASE: 2025

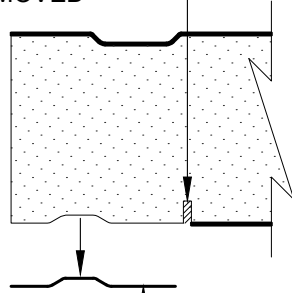
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

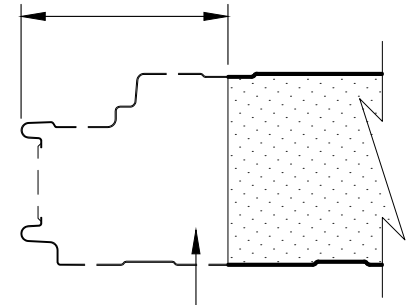
THERMAL CUT PANEL FACE
SUFFICIENT ENOUGH FOR
METAL TO BE REMOVED



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
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

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: 2025

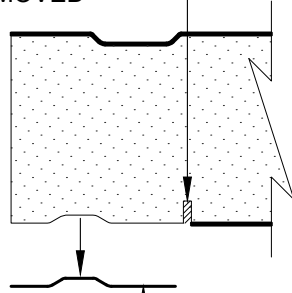
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

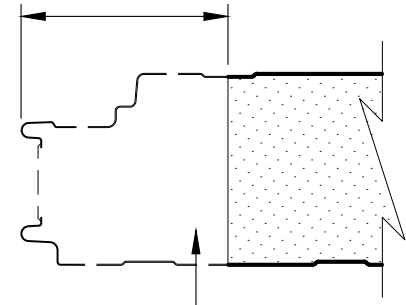
THERMAL CUT PANEL FACE
SUFFICIENT ENOUGH FOR
METAL TO BE REMOVED



REMOVE METAL SKIN FROM
THERMAL CUT TO EXTENT
OF CORNER CONDITION

2" PANEL - REMOVE 1"
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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

VAPOR BARRIER (NOT BY KINGSPAN)
(GREENGUARD BUTYL FLASHING
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

REVISION	
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OUTSIDE CORNER
PROFIED TRIM

DETAIL #: CS-OC-02-KSV

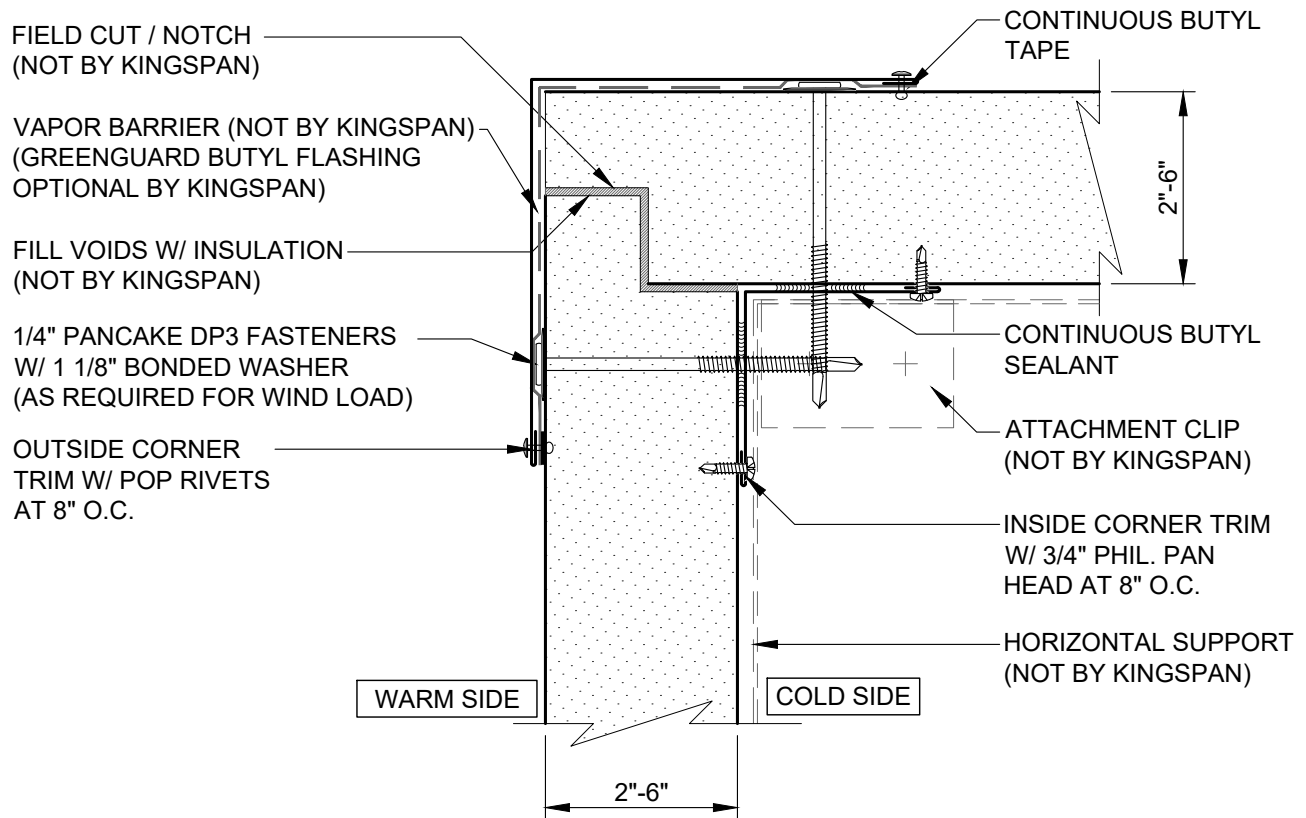
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REGION: NORTH AMERICA

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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

REVISION	
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0	12/5/25

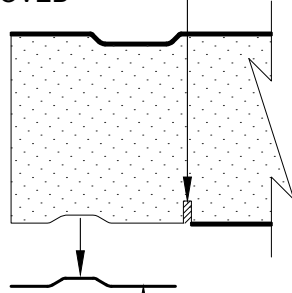
OUTSIDE CORNER
ALT. FIELD CUT

DETAIL #: CS-OC-03-KSV
RELEASE: 2025
REGION: NORTH AMERICA
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

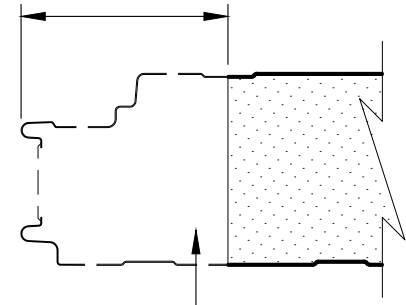
THERMAL CUT PANEL FACE
SUFFICIENT ENOUGH FOR
METAL TO BE REMOVED



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

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

$\frac{1}{4}$ " PANCAKE DP3 FASTENERS
W/ 1 $\frac{1}{8}$ " 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
OPTIONAL BY KINGSPAN)

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

CONTINUOUS BUTYL
TAPE

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INSIDE CORNER
FLAT TRIM

DETAIL #: CS-IC-01-KSV

RELEASE: 2025

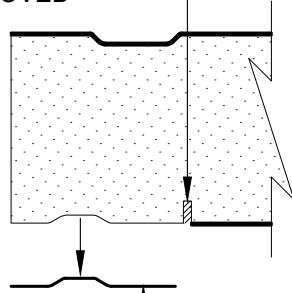
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

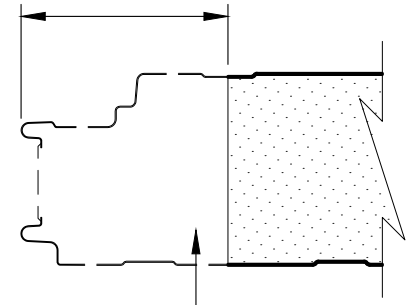
THERMAL CUT PANEL FACE
SUFFICIENT ENOUGH FOR
METAL TO BE REMOVED



REMOVE METAL SKIN FROM
THERMAL CUT TO EXTENT
OF CORNER CONDITION

- 2" PANEL - REMOVE 1"
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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

$\frac{1}{4}$ " HWH DP3 FASTENERS
W/ 1 $\frac{1}{8}$ " 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 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

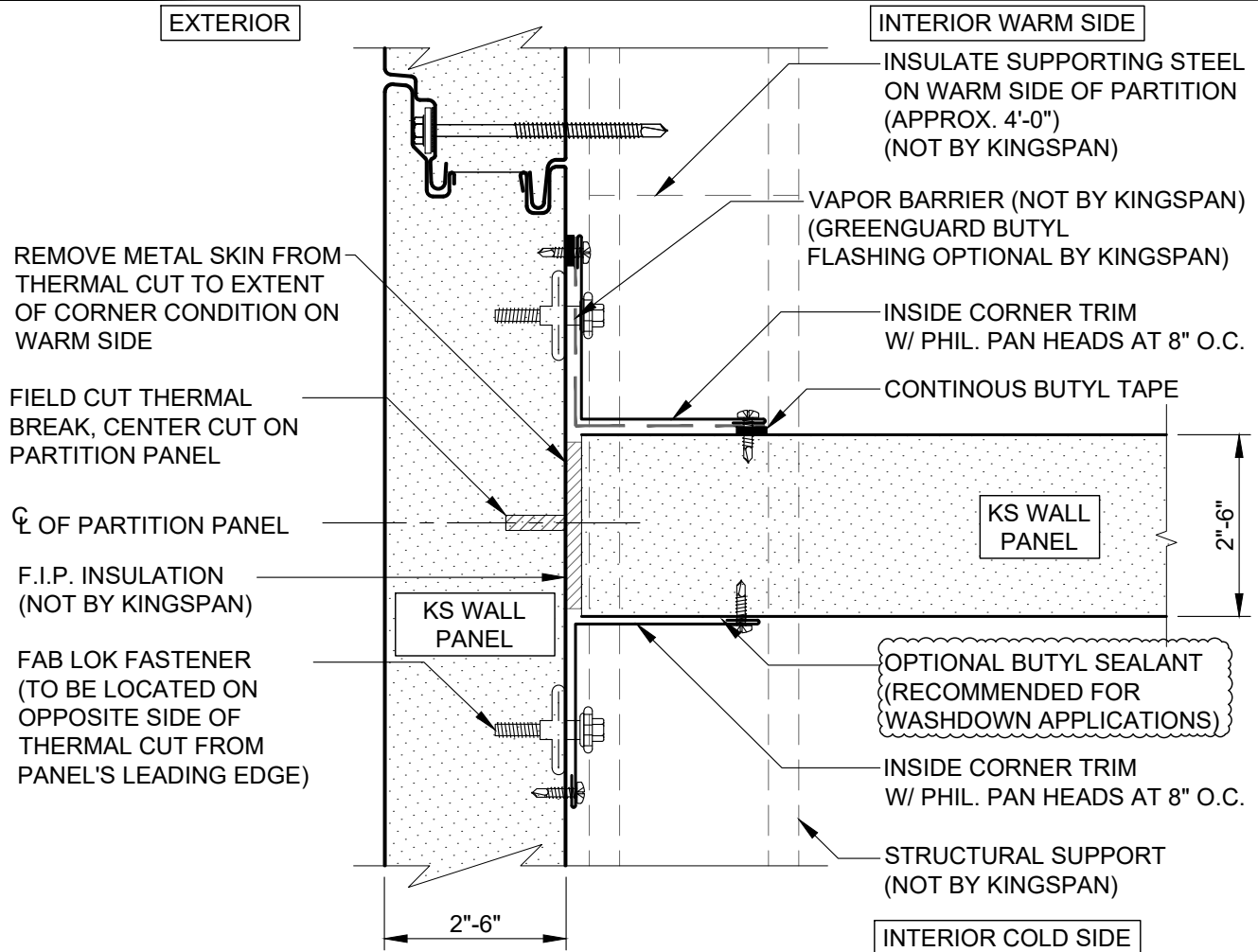
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REGION: NORTH AMERICA

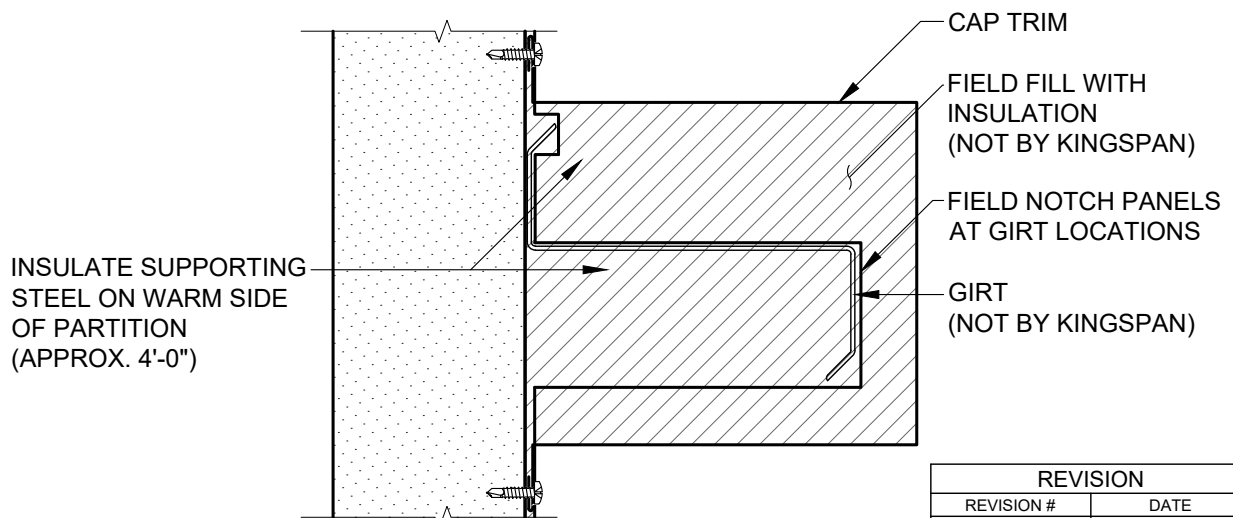
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

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

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

F.I.P. INSULATION
(NOT BY KINGSPAN)

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

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PARTITION TO EXTERIOR WALL
ISOMETRIC VIEW

DETAIL #: CS-IC-04-KSV

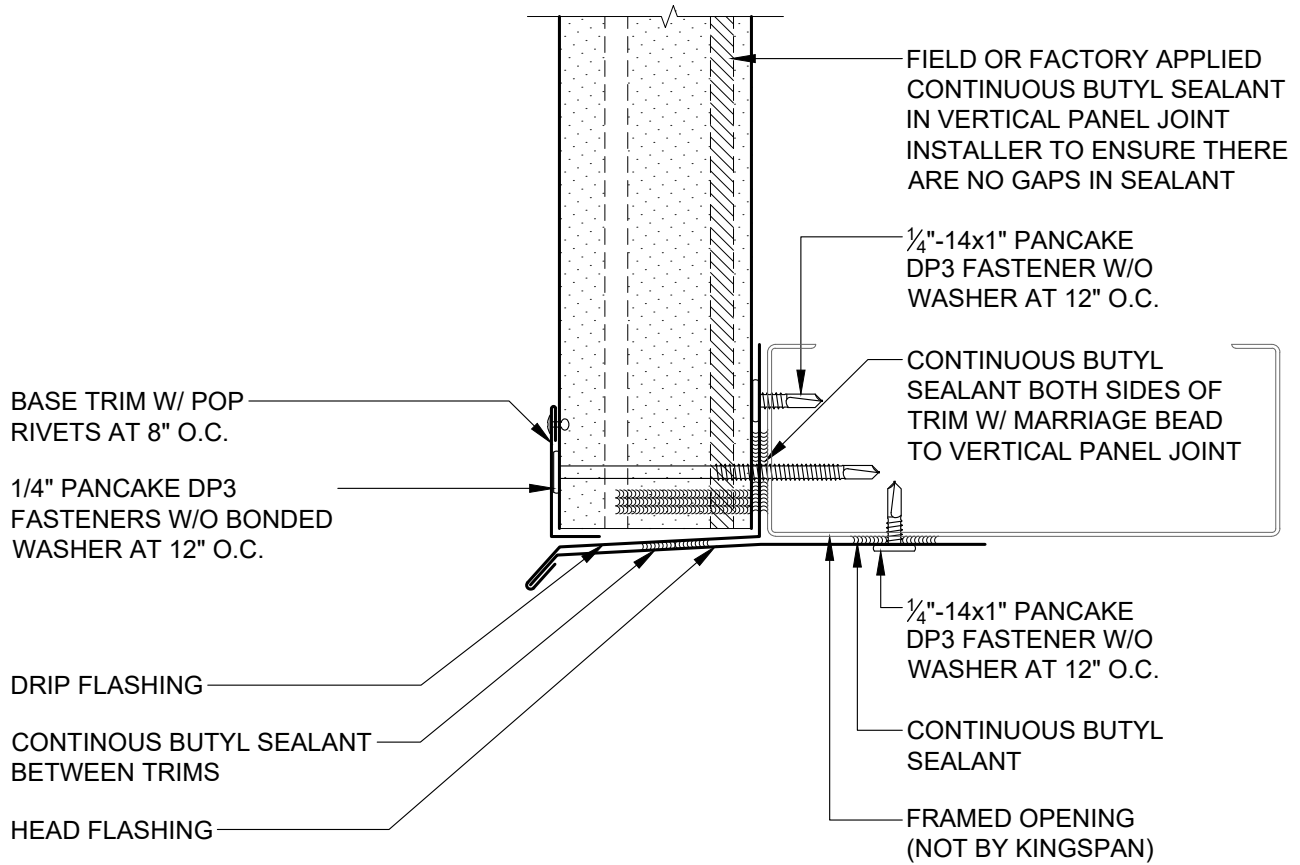
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REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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FRAMED OPENING EXTERIOR - HEAD

DETAIL #: CS-FO-01-KSV

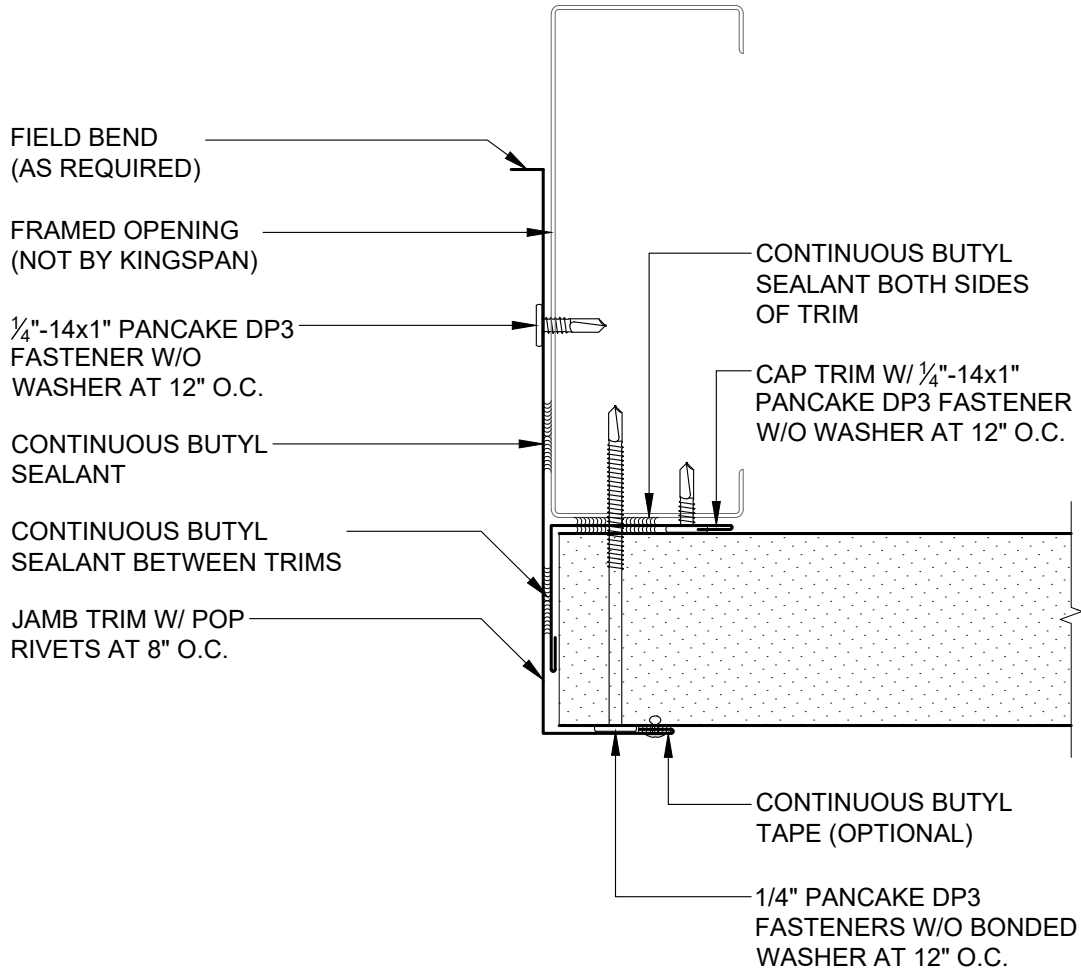
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REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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FRAMED OPENING EXTERIOR - JAMB

DETAIL #: CS-FO-02-KSV

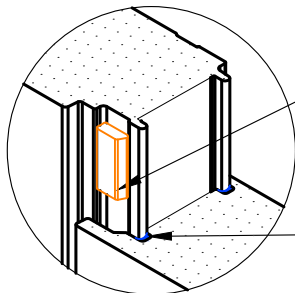
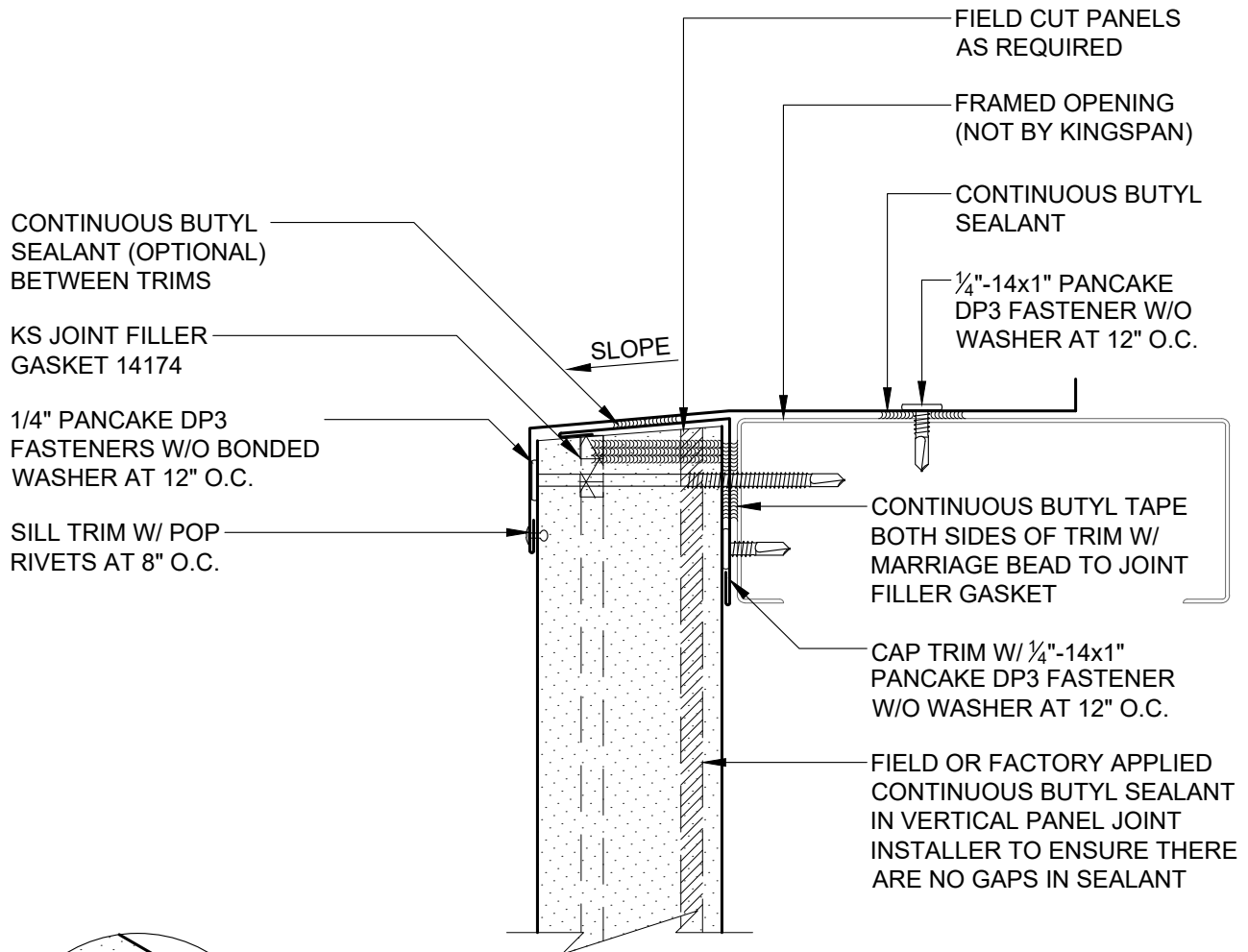
RELEASE: 2025

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	
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FRAMED OPENING EXTERIOR - SILL

DETAIL #: CS-FO-03-KSV

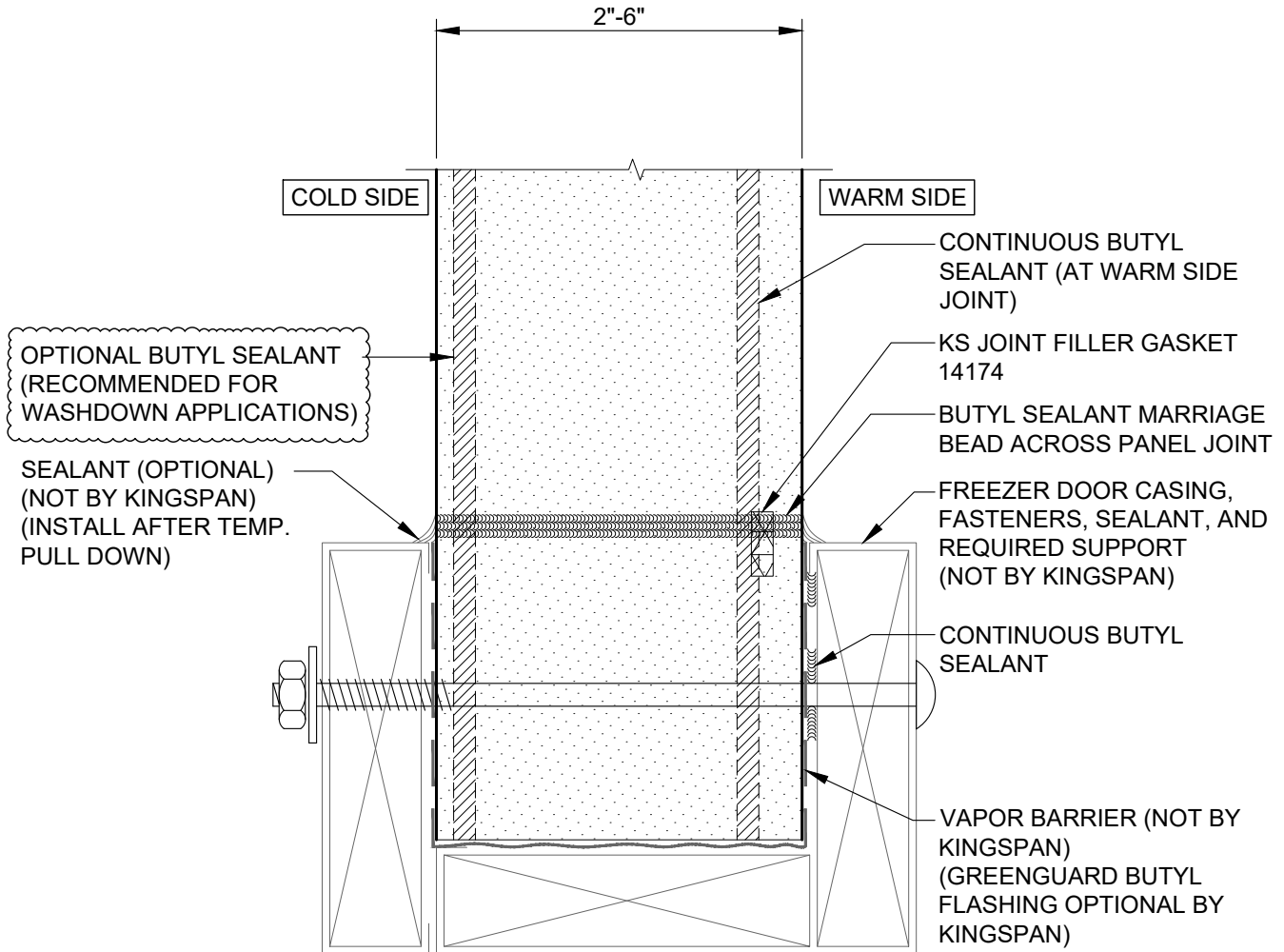
RELEASE: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



INTERIOR APPLICATION ONLY

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FRAMED OPENING INTERIOR - HEAD

DETAIL #: CS-FO-04-KSV

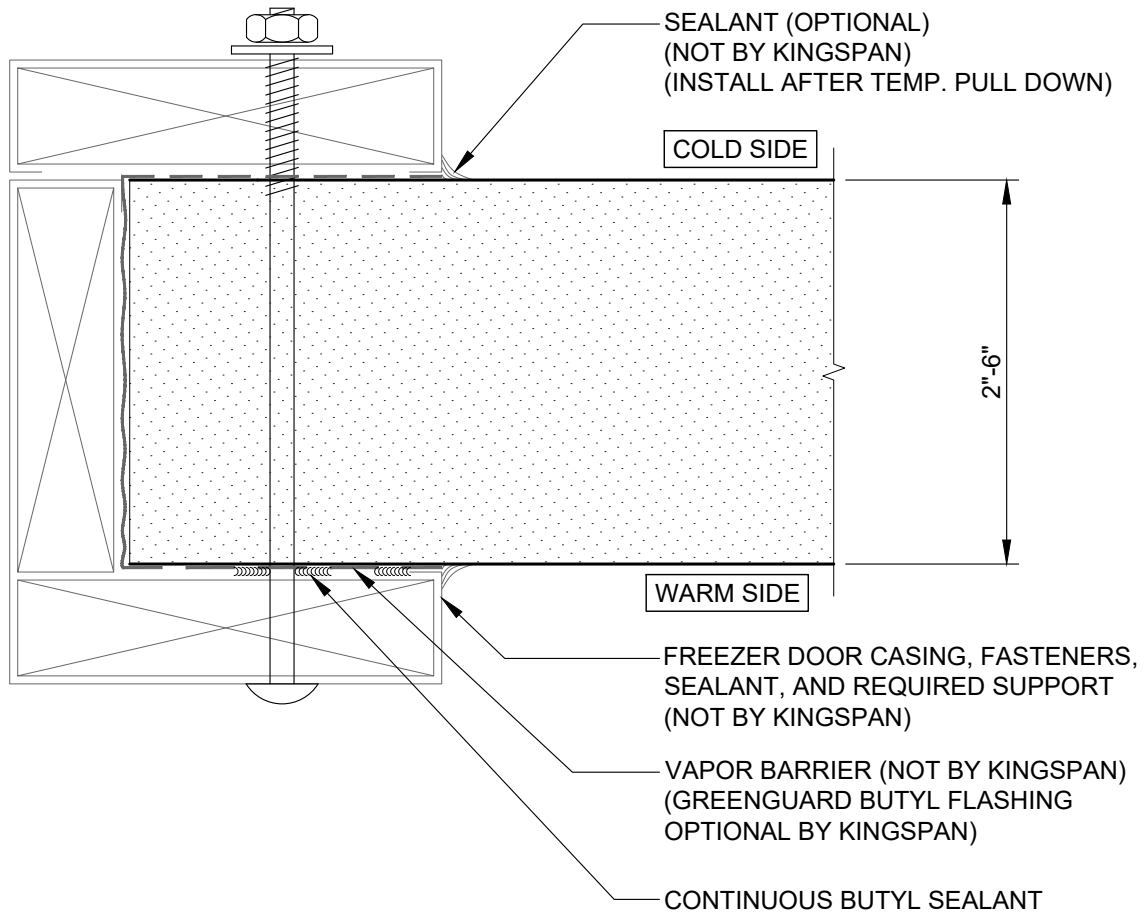
RELEASE: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



INTERIOR APPLICATION ONLY

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FRAMED OPENING INTERIOR - JAMB

DETAIL #: CS-FO-05-KSV

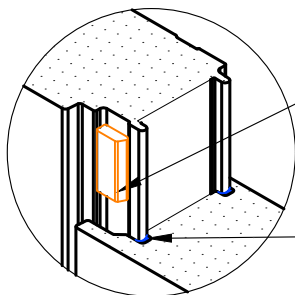
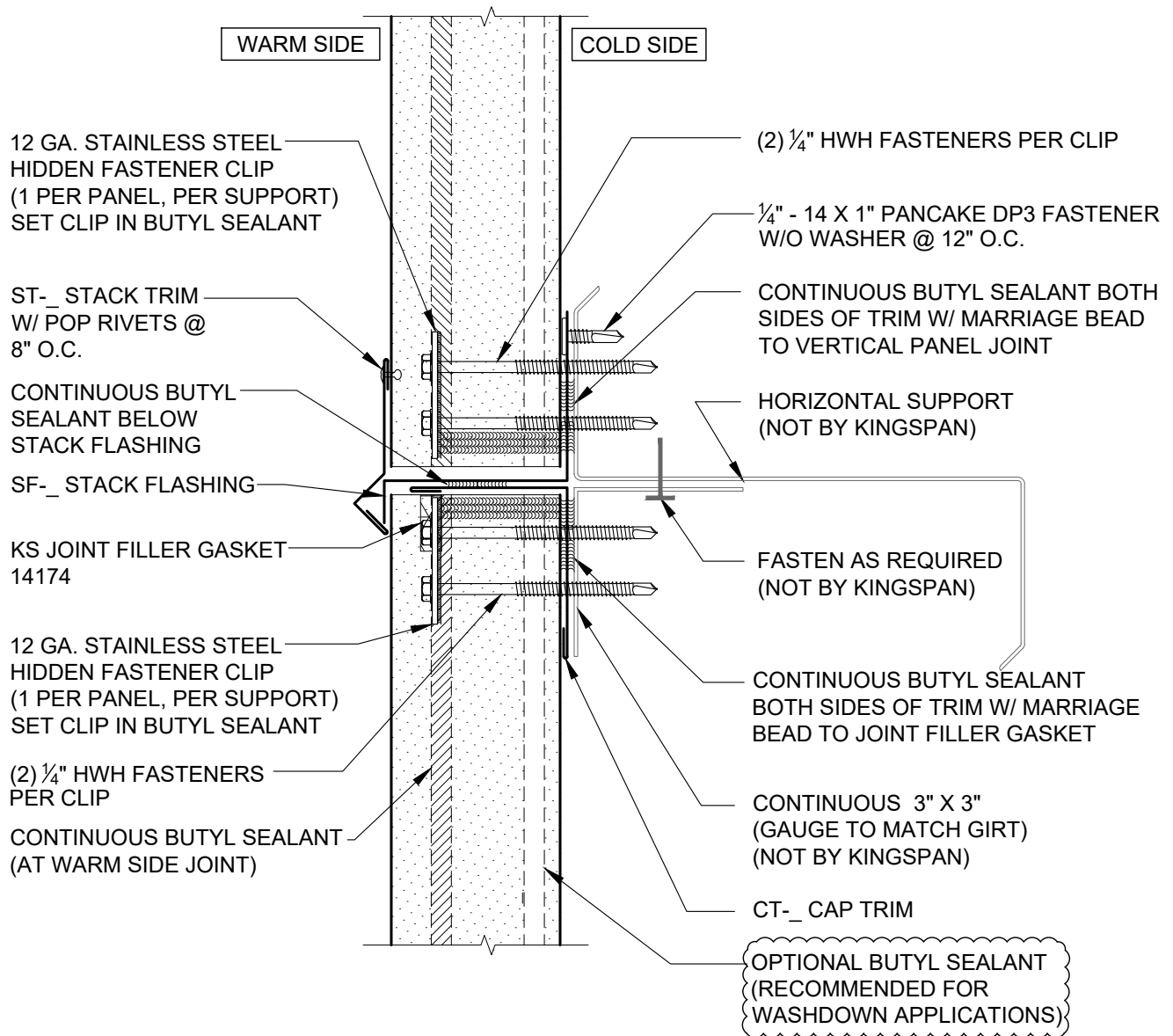
RELEASE: 2025

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

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REVISION #	DATE
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STACK JOINT

DETAIL #: CS-ST-01-KSV

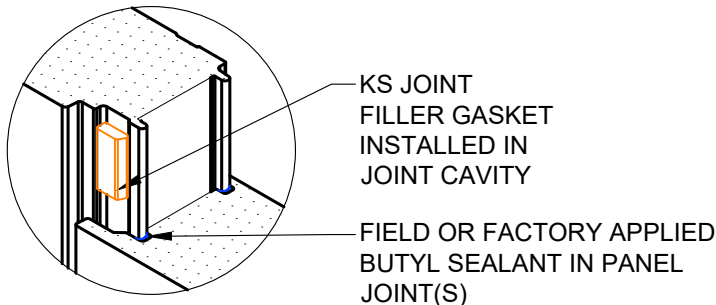
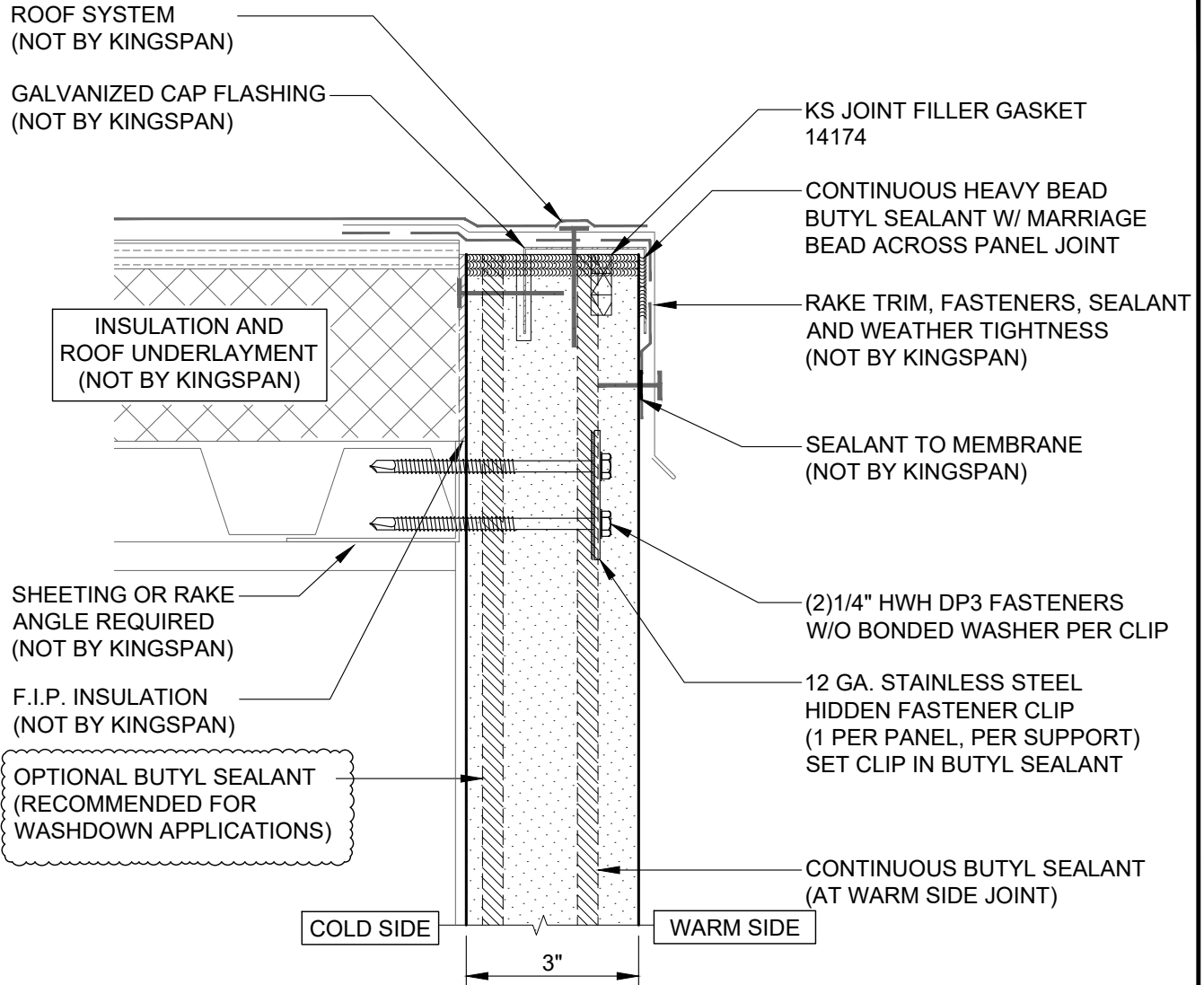
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REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



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RAKE W/ MEMBRANE ROOF
(SMALL CAP)

DETAIL #: CS-RK-01-KSV

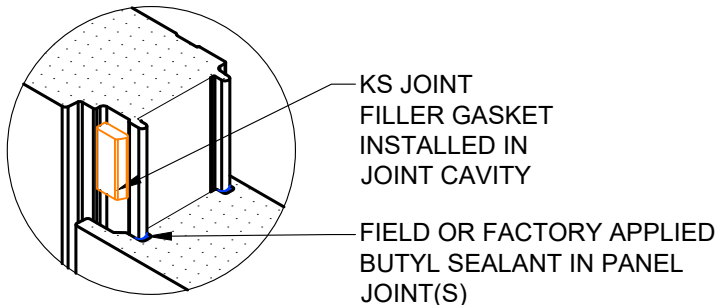
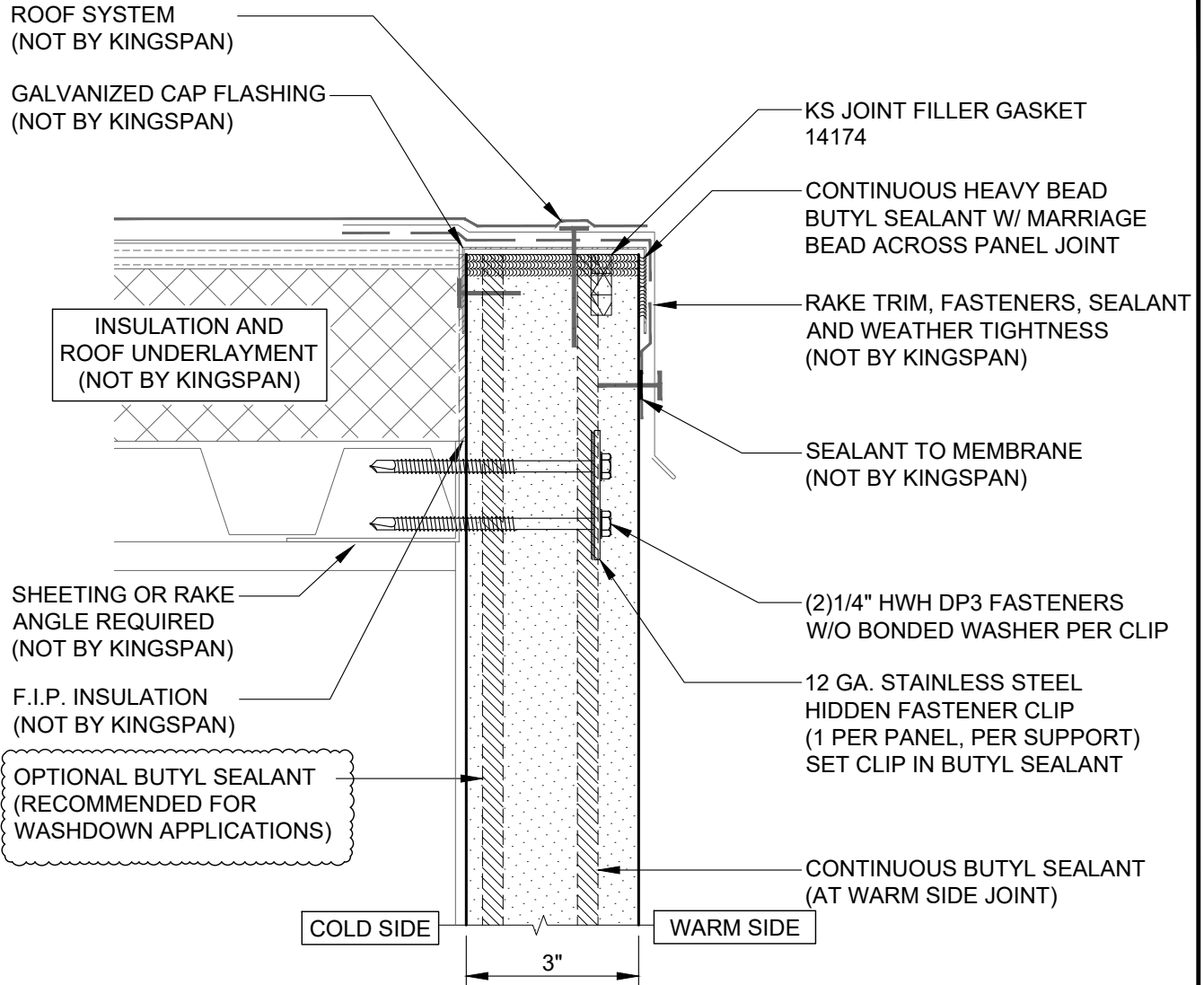
RELEASE: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



REVISION	
REVISION #	DATE
0	12/5/25

RAKE W/ MEMBRANE ROOF
(LARGE CAP)

DETAIL #: CS-RK-02-KSV

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REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

F.I.P. INSULATION
(NOT BY KINGSPAN)

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)

(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"-6"

KS JOINT
FILLER GASKET
INSTALLED IN
JOINT CAVITY

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

REVISION

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LOW EAVE

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REGION: NORTH AMERICA

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ROOF SYSTEM
(NOT BY KINGSPAN)

F.I.P. INSULATION
(NOT BY KINGSPAN)

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)

(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"-6"

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

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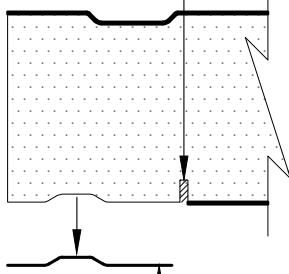
REGION: NORTH AMERICA

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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"

REFER TO KINGSPAN CEILING
GUIDELINES

ATTIC ABOVE CEILING
MUST BE VENTILATED

SEE CS-CE-04-KSV
FOR ADDITIONAL INFO

FIELD CUT THERMAL
BREAK

F.I.P. INSULATION
(NOT BY KINGSPAN)

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

VAPOR BARRIER
(NOT BY KINGSPAN)
(GREENGUARD BUTYL
FLASHING OPTIONAL
BY KINGSPAN)

CONTINUOUS BUTYL
SEALANT W/ MARRIAGE
BEAD TO PANEL JOINT

CONTINUOUS BUTYL
SEALANT
(AT WARM SIDE JOINT)

WARM SIDE

COLD SIDE

CONTINUOUS BUTYL
SEALANT

CEILING

WALL

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

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

REVISION

REVISION #	DATE
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WALL TO CEILING

DETAIL #: CS-CE-01-KSV

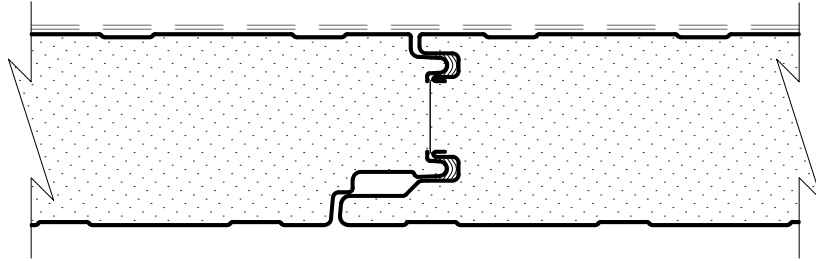
RELEASE: 2025

REGION: NORTH AMERICA

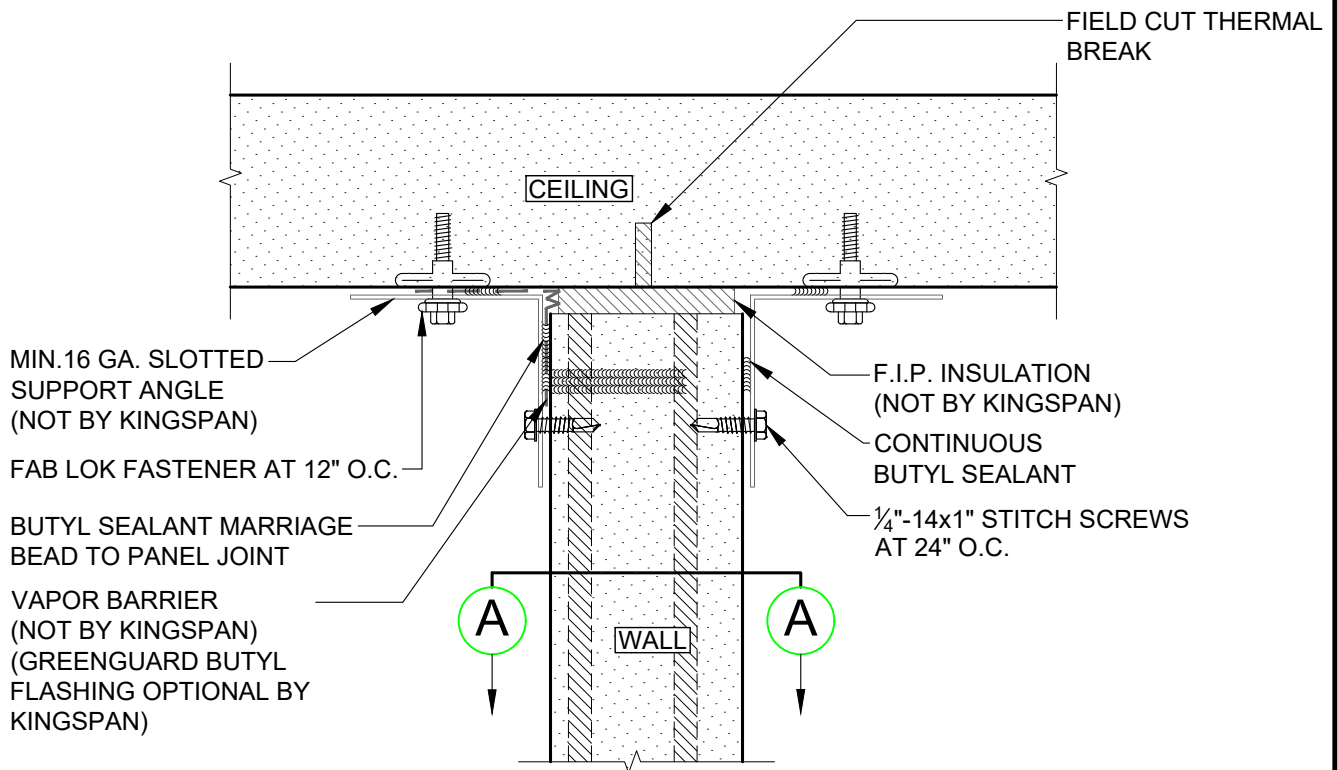
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



AA CROSS SECTION
(SECTION VIEW)



REVISION	
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PARTITION WALL TO CEILING
INTERSECTION

DETAIL #: CS-CE-02-KSV

RELEASE: 2025

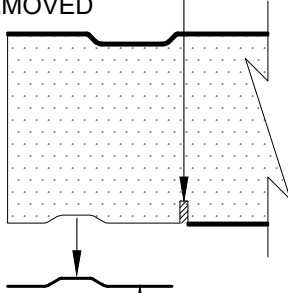
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

THERMAL CUT PANEL
FACE SUFFICIENT
ENOUGH FOR METAL
TO BE REMOVED



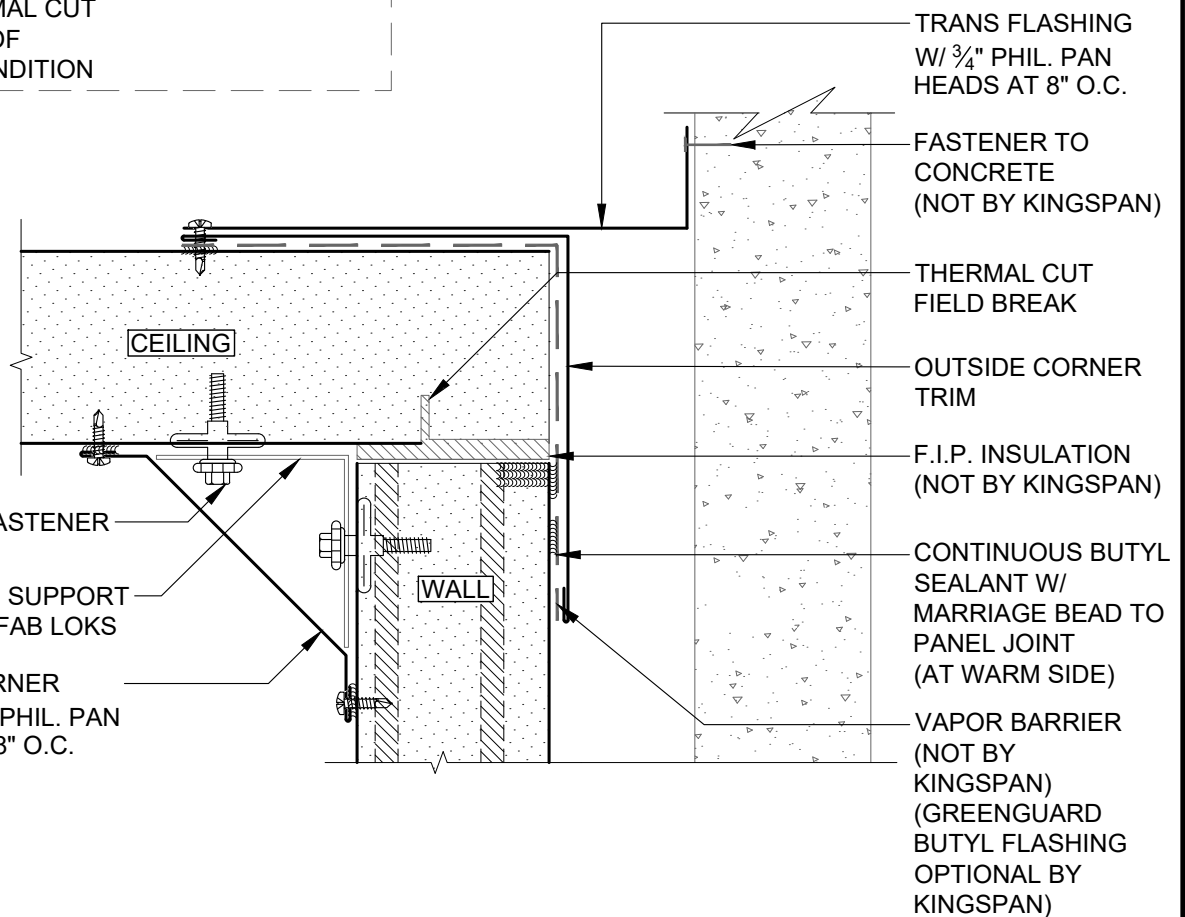
REMOVE METAL SKIN
FROM THERMAL CUT
TO EXTENT OF
CORNER CONDITION

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.



REVISION

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LINER WALL AT CMU TO CEILING
PANEL

DETAIL #: CS-CE-03-KSV

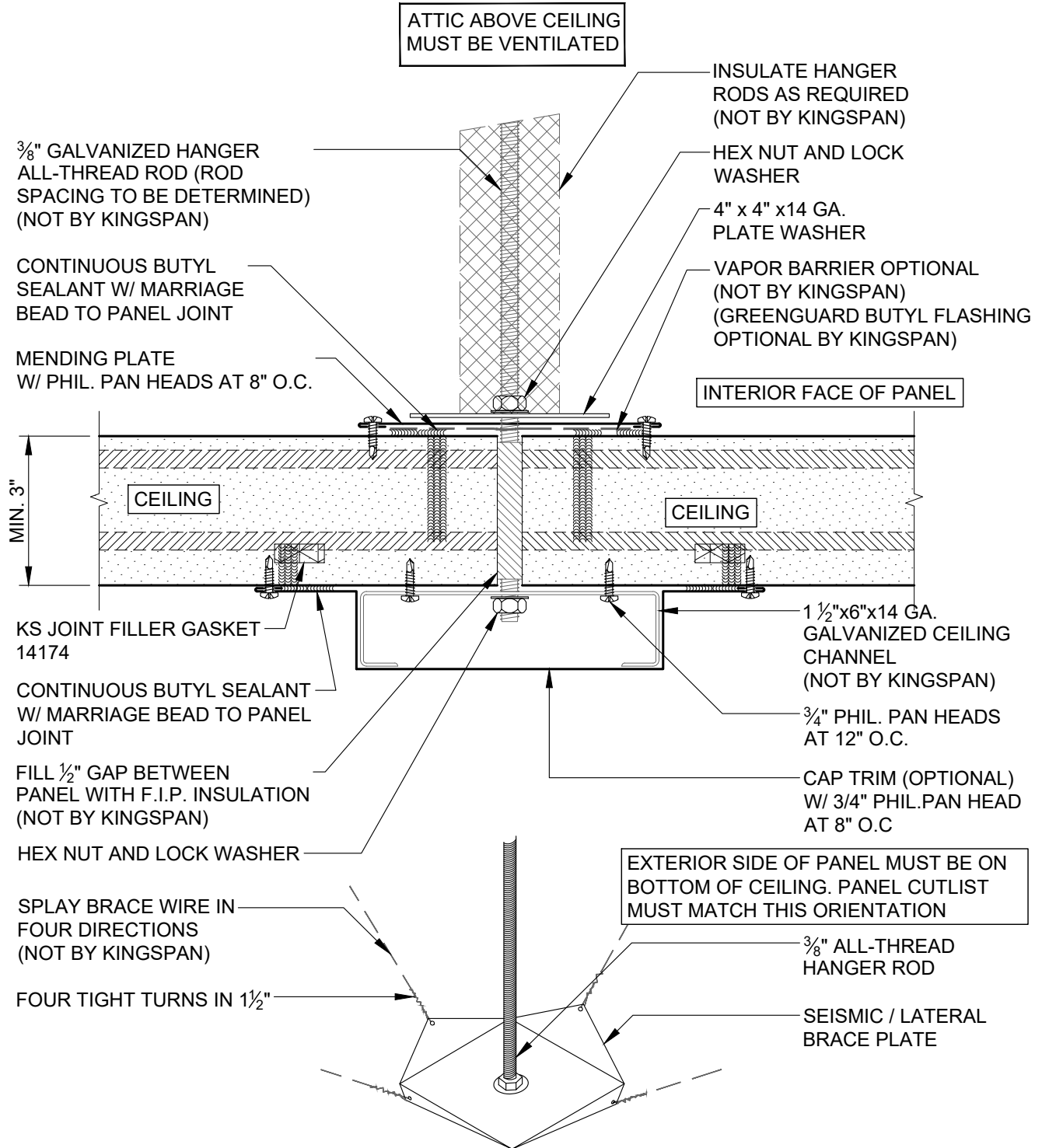
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



SEISMIC / LATERAL BRACE PLATE

CONTACT KINGSPAN TECHNICAL SERVICES FOR SEISMIC BRACE PLATE QUANTITY AND LOCATION

REVISION	
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CEILING CHANNEL

DETAIL #: CS-CE-04-KSV

RELEASE: 2025

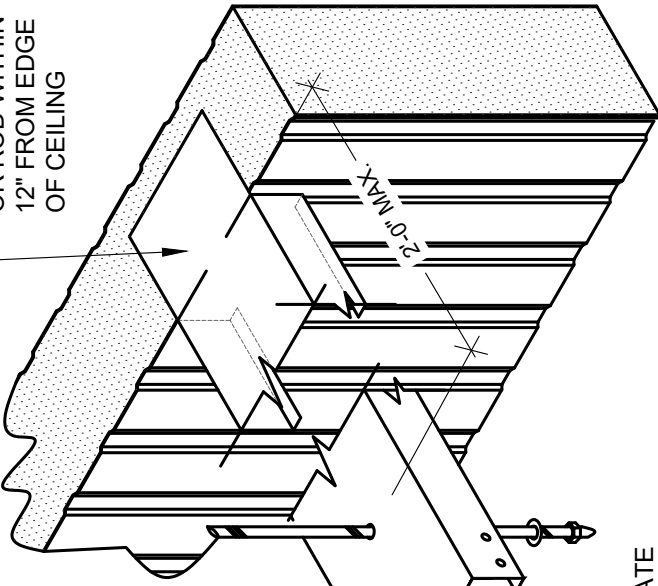
REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

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



CEILING CHANNEL

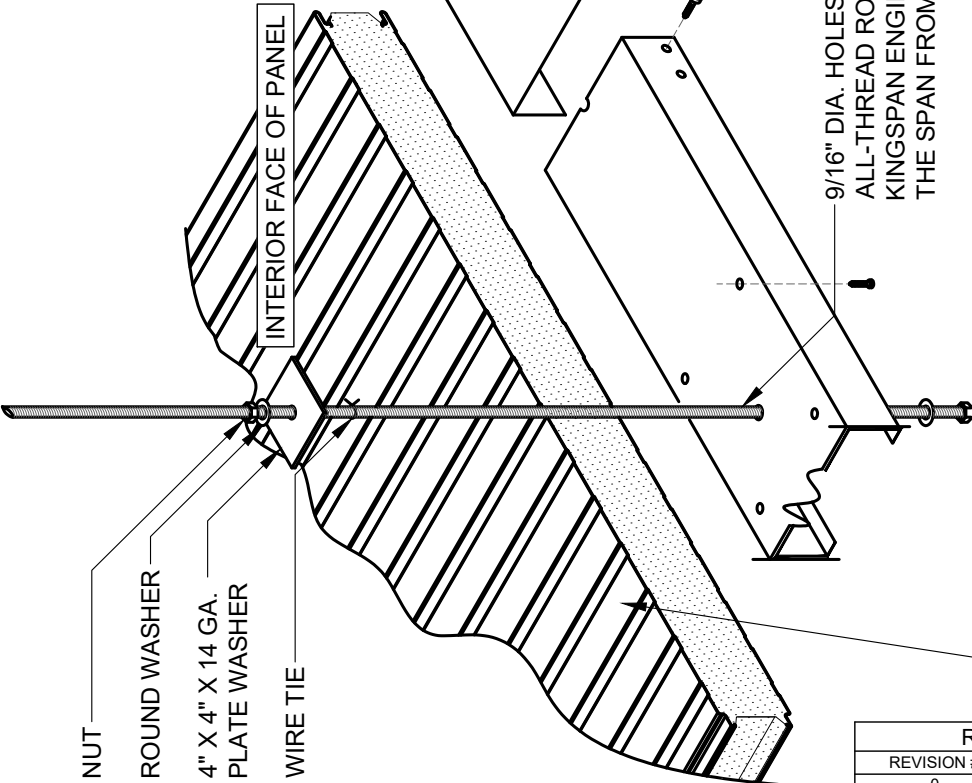
SPLICE PLATE

3/4" PHIL. PAN HEAD

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".

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 3/8" HANGER RODS. WIRE TIES HOLD
WASHERS ABOVE WORKING POINT.



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

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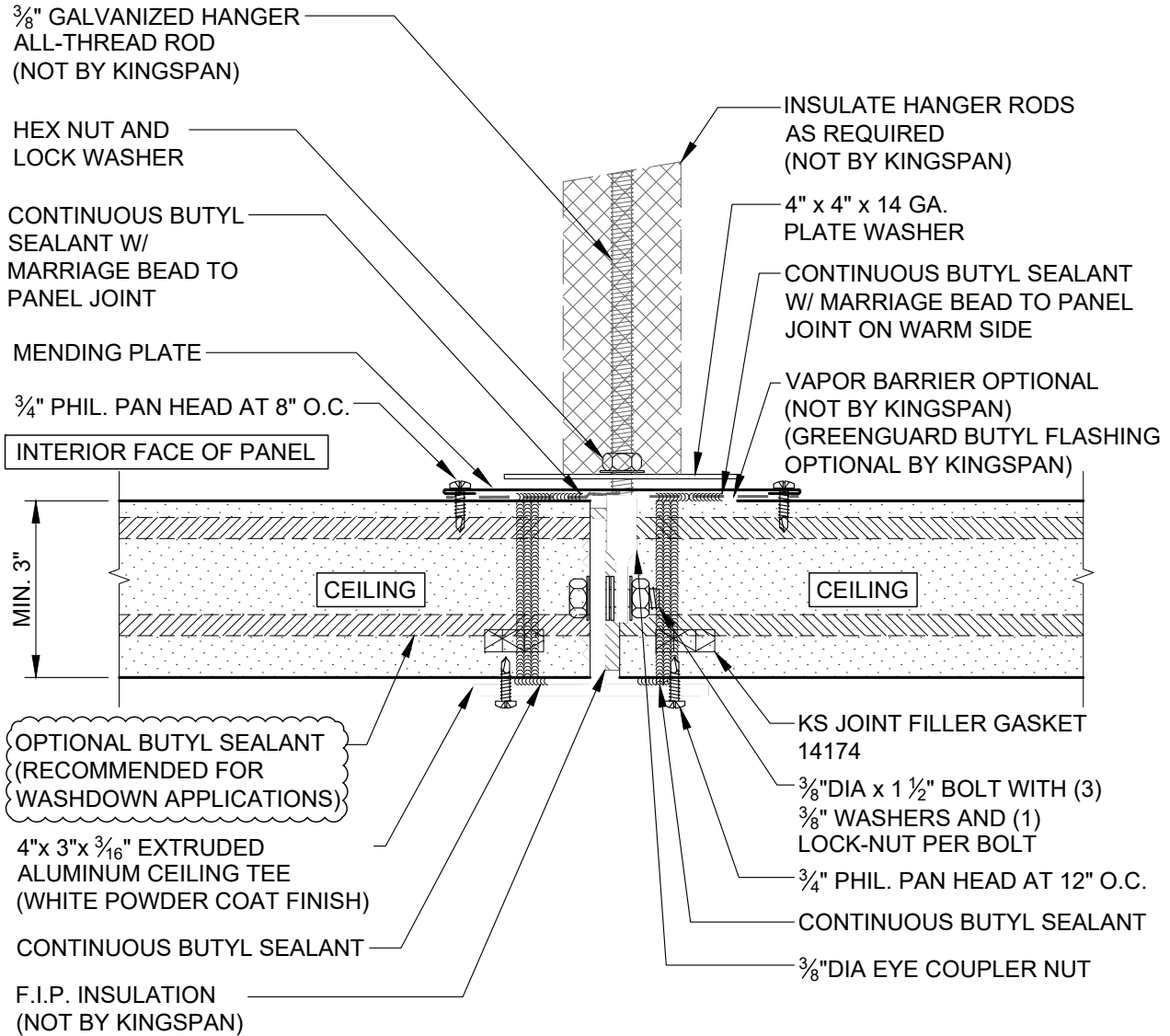
CEILING CHANNEL ASSEMBLY

DETAIL #:	CS-CE-05-KSV
RELEASE:	2025
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: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

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.

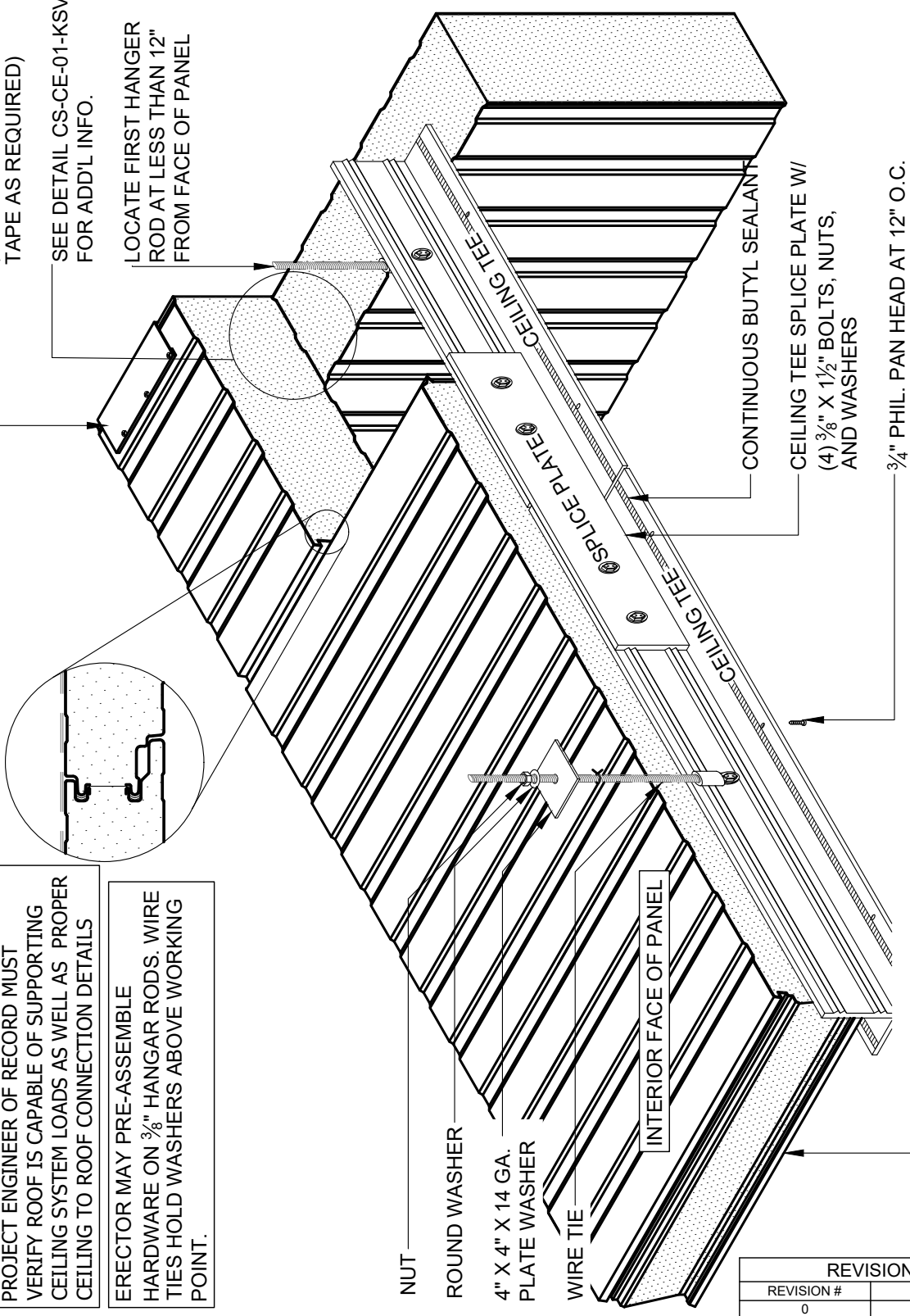
PROJECT ENGINEER OF RECORD MUST VERIFY ROOF IS CAPABLE OF SUPPORTING CEILING SYSTEM LOADS AS WELL AS PROPER CEILING TO ROOF CONNECTION DETAILS

ERECTOR MAY PRE-ASSEMBLE HARDWARE ON 3/8" HANGAR RODS. WIRE TIES HOLD WASHERS ABOVE WORKING POINT.

OUTSIDE CORNER TRIM W/ 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



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

REVISION	
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CEILING TEE ASSEMBLY

DETAIL #: CS-CE-07-KSV

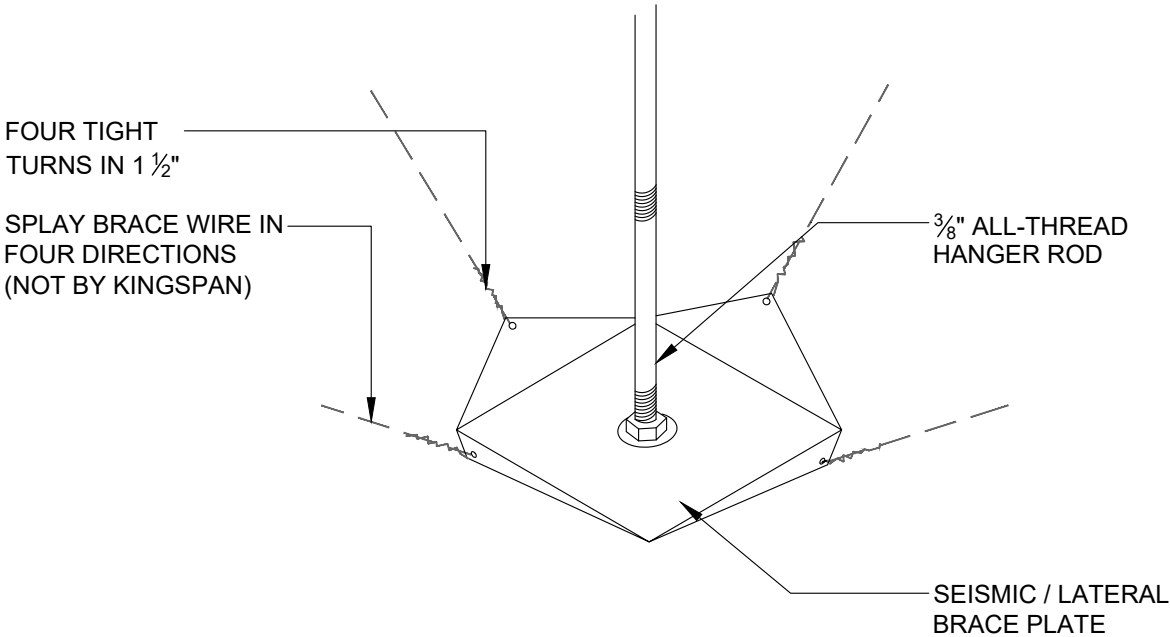
RELEASE: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



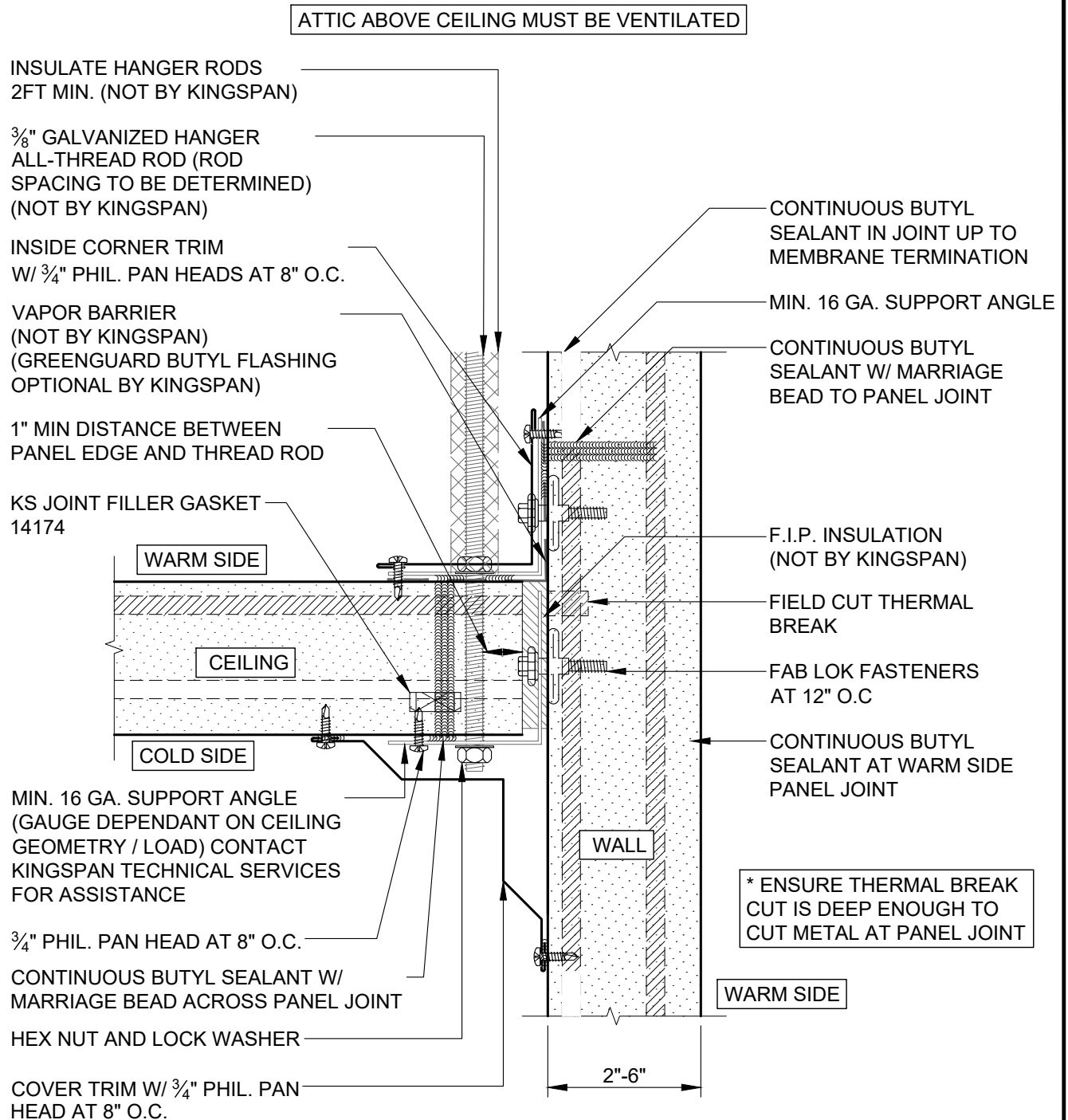
REVISION	
REVISION #	DATE
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SEISMIC / LATERAL BRACE PLATE

DETAIL #: CS-CE-08-KSV
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NOTE: CONTACT KINGSPAN TECHNICAL SERVICES FOR ENGINEERING ASSISTANCE

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CEILING TO WALL
TRANSVERSE

DETAIL #: CS-CE-09-KSV

RELEASE: 2025

REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

ATTIC ABOVE CEILING MUST BE VENTILATED

INSULATE HANGER RODS
2FT MIN. (NOT BY KINGSPAN)

$\frac{3}{8}$ " GALVANIZED HANGER
ALL-THREAD ROD (ROD
SPACING TO BE DETERMINED)
(NOT BY KINGSPAN)

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

VAPOR BARRIER (NOT BY KINGSPAN)
(GREENGUARD BUTYL FLASHING
OPTIONAL BY KINGSPAN)

1" MIN DISTANCE BETWEEN PANEL
EDGE AND THREADED ROD

KS JOINT FILLER GASKET
14174

WARM SIDE

CEILING

COLD SIDE

MIN. 16 GA. SUPPORT ANGLE
(GAUGE DEPENDANT ON CEILING
GEOMETRY / LOAD) CONTACT
KINGSPAN TECHNICAL SERVICES
FOR ASSISTANCE

FAB LOK FASTENER AT 12" O.C

CONTINUOUS BUTYL SEALANT W/
MARRIAGE BEAD ACROSS PANEL JOINT

HEX NUT AND LOCK WASHER

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

CONTINUOUS BUTYL
SEALANT IN JOINT UP TO
MEMBRANE TERMINATION

CONTINUOUS BUTYL SEALANT
W/ MARRIAGE BEAD TO PANEL
JOINT

F.I.P. INSULATION
(NOT BY KINGSPAN)

FIELD CUT THERMAL
BREAK

CONTINUOUS BUTYL
SEALANT AT WARM SIDE
PANEL JOINT

FAB LOK FASTENERS
AT 12" O.C

* ENSURE THERMAL BREAK
CUT IS DEEP ENOUGH TO
CUT METAL AT PANEL JOINT

2"-6"

WALL

WARM SIDE

NOTE: CONTACT KINGSPAN TECHNICAL SERVICES FOR ENGINEERING ASSISTANCE

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CEILING TO WALL
TRANSVERSE
OPTIONAL ANGLE ORIENTATION

DETAIL #: CS-CE-10-KSV

RELEASE: 2025

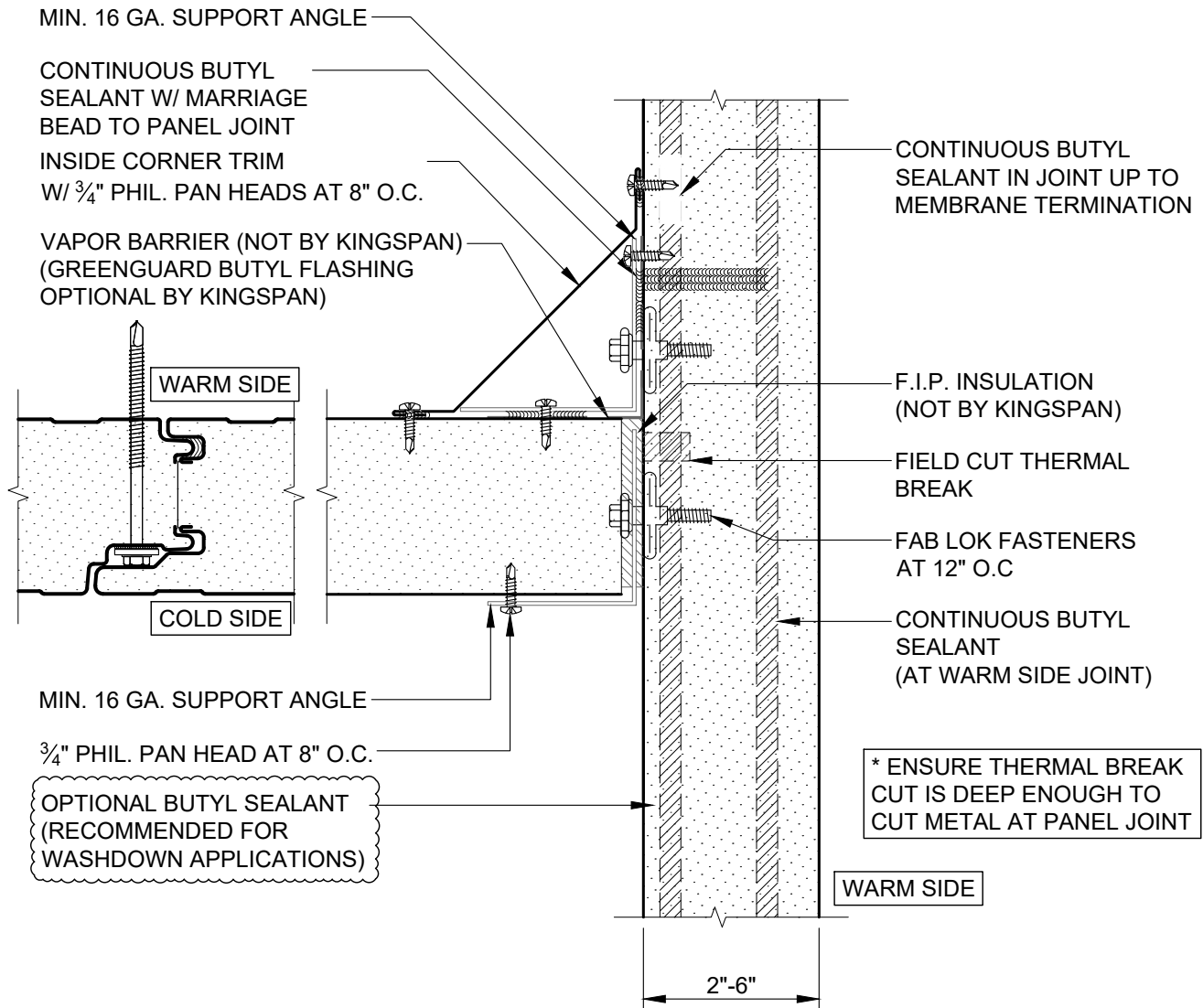
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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION

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: 2025

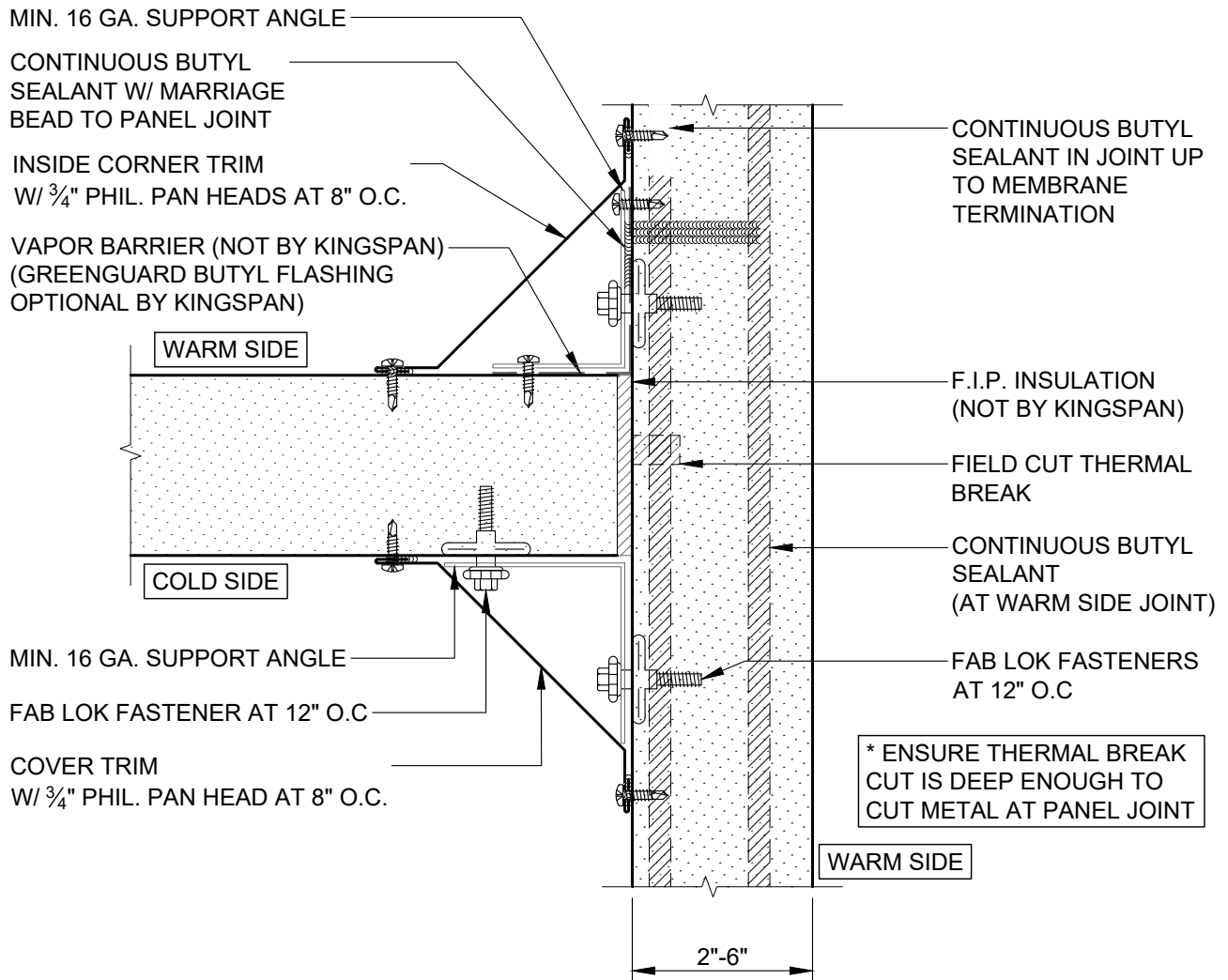
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ATTIC ABOVE CEILING MUST BE VENTILATED



NOTE: CONTACT KINGSPAN TECHNICAL SERVICES FOR ENGINEERING ASSISTANCE

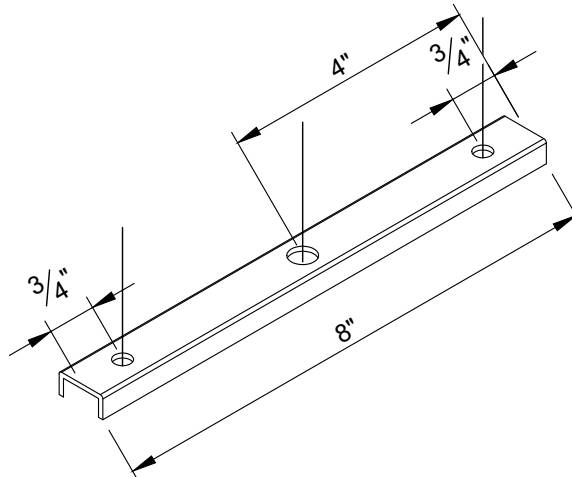
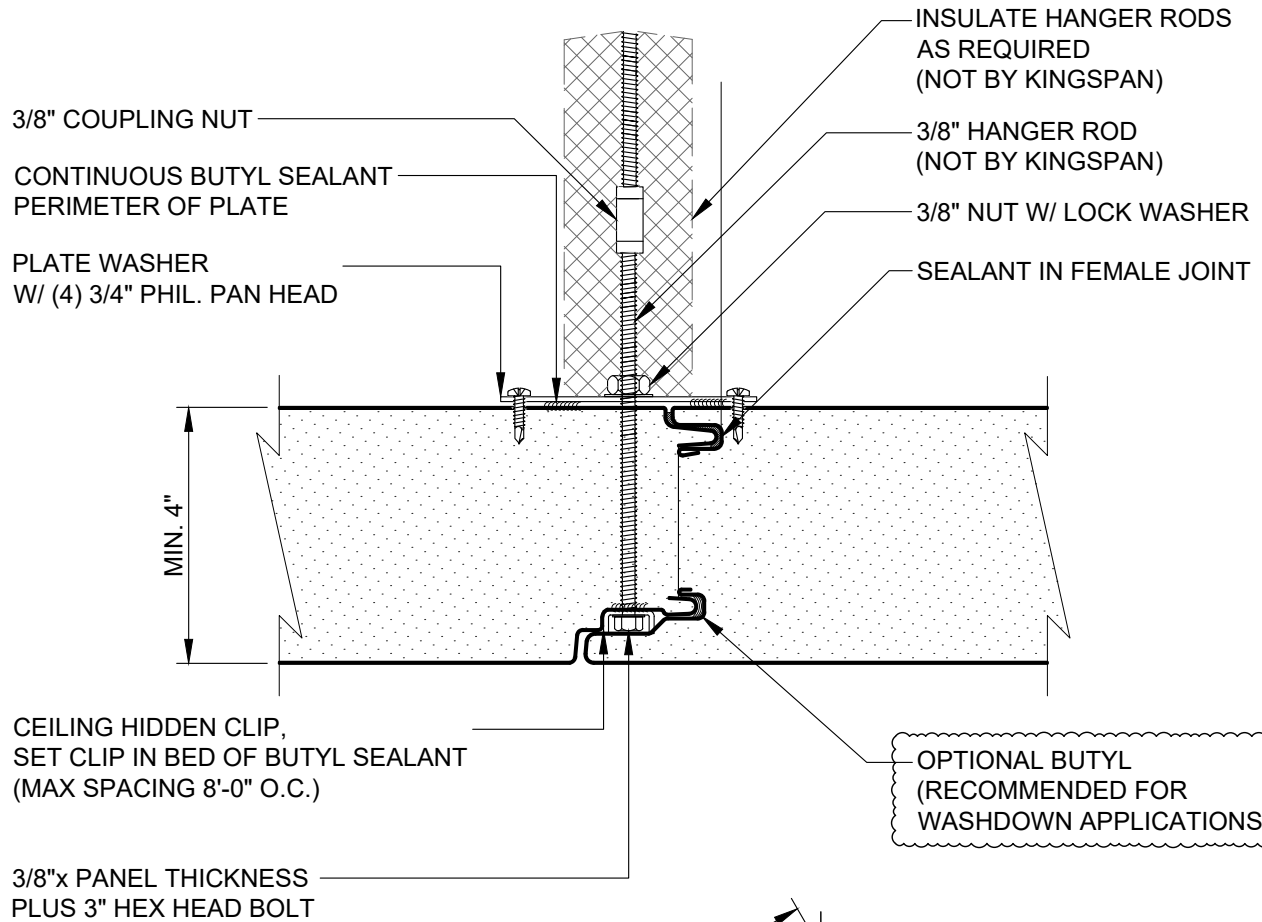
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CEILING TO WALL
LONGITUDINAL
OPTIONAL ANGLE ORIENTATION

DETAIL #: CS-CE-12-KSV
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"U" CEILING CLIP

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

DETAIL #: CS-HC-01-KSV

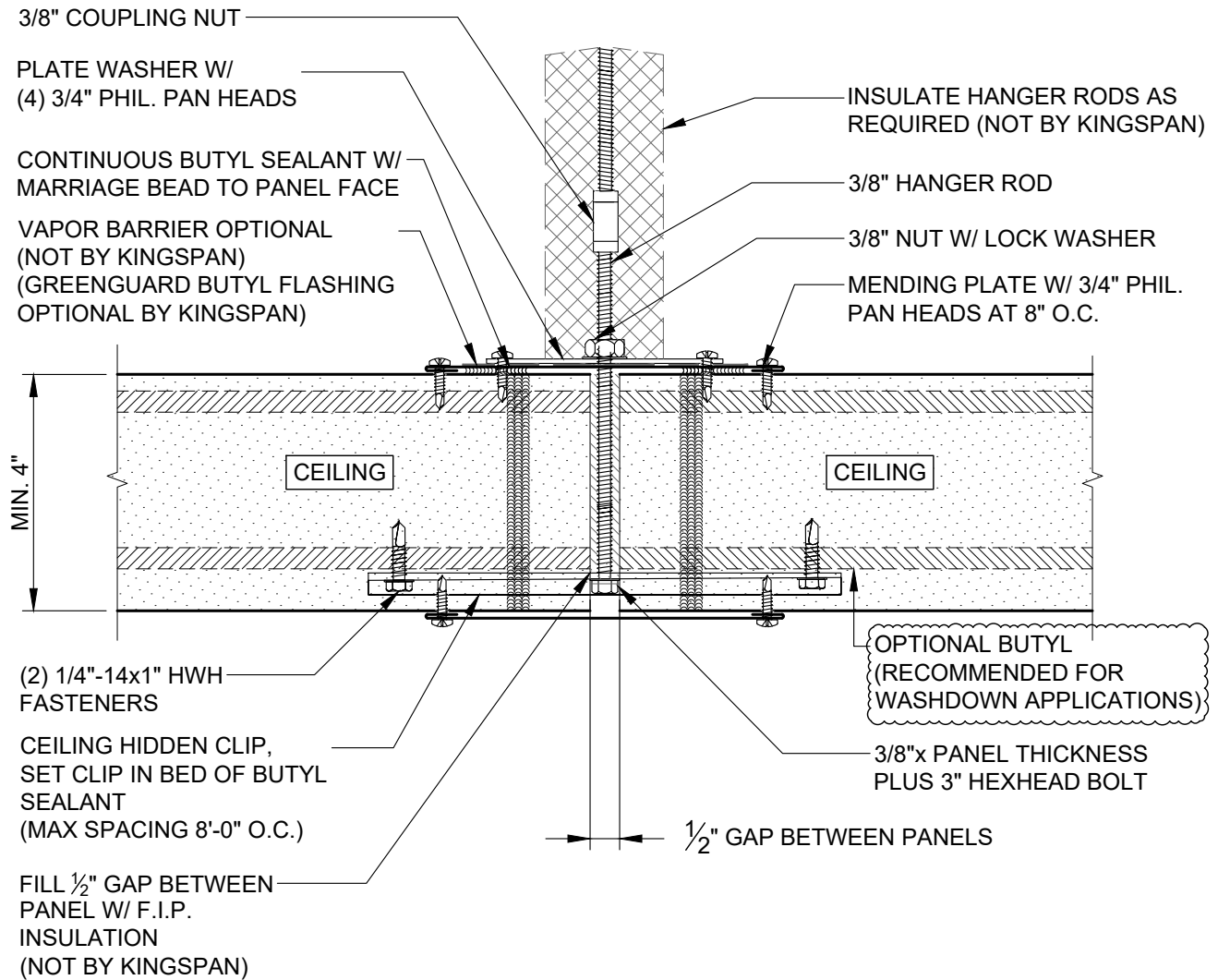
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CEILING HIDDEN CLIP SECTION
(OPTIONAL)

DETAIL #: CS-HC-02-KSV

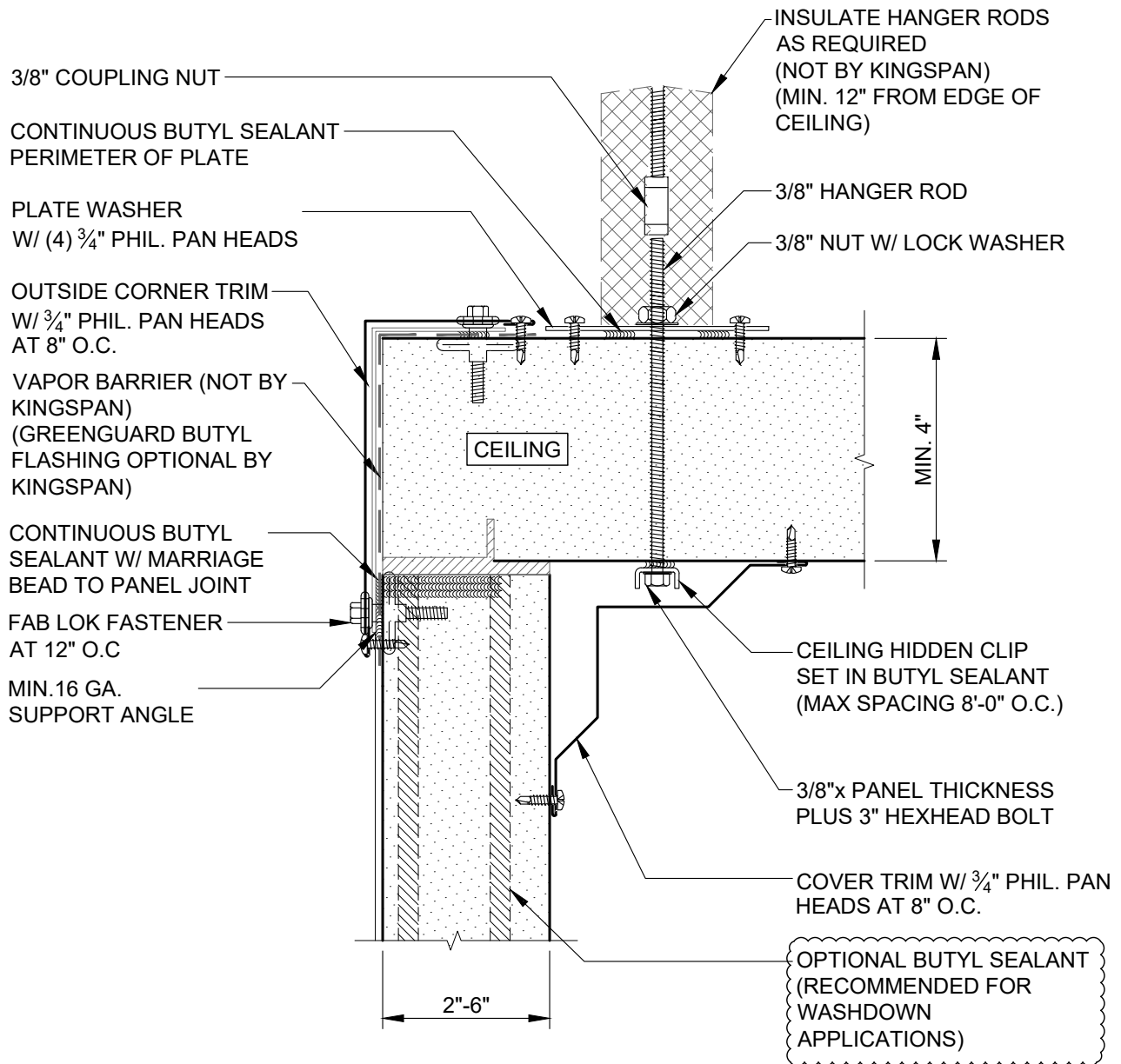
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REGION: NORTH AMERICA

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KS SERIES - CONTROLLED ENVIRONMENT - VERTICAL INSTALLATION



REVISION	
REVISION #	DATE
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CEILING HIDDEN CLIP
CEILING TO WALL

DETAIL #: CS-HC-03-KSV

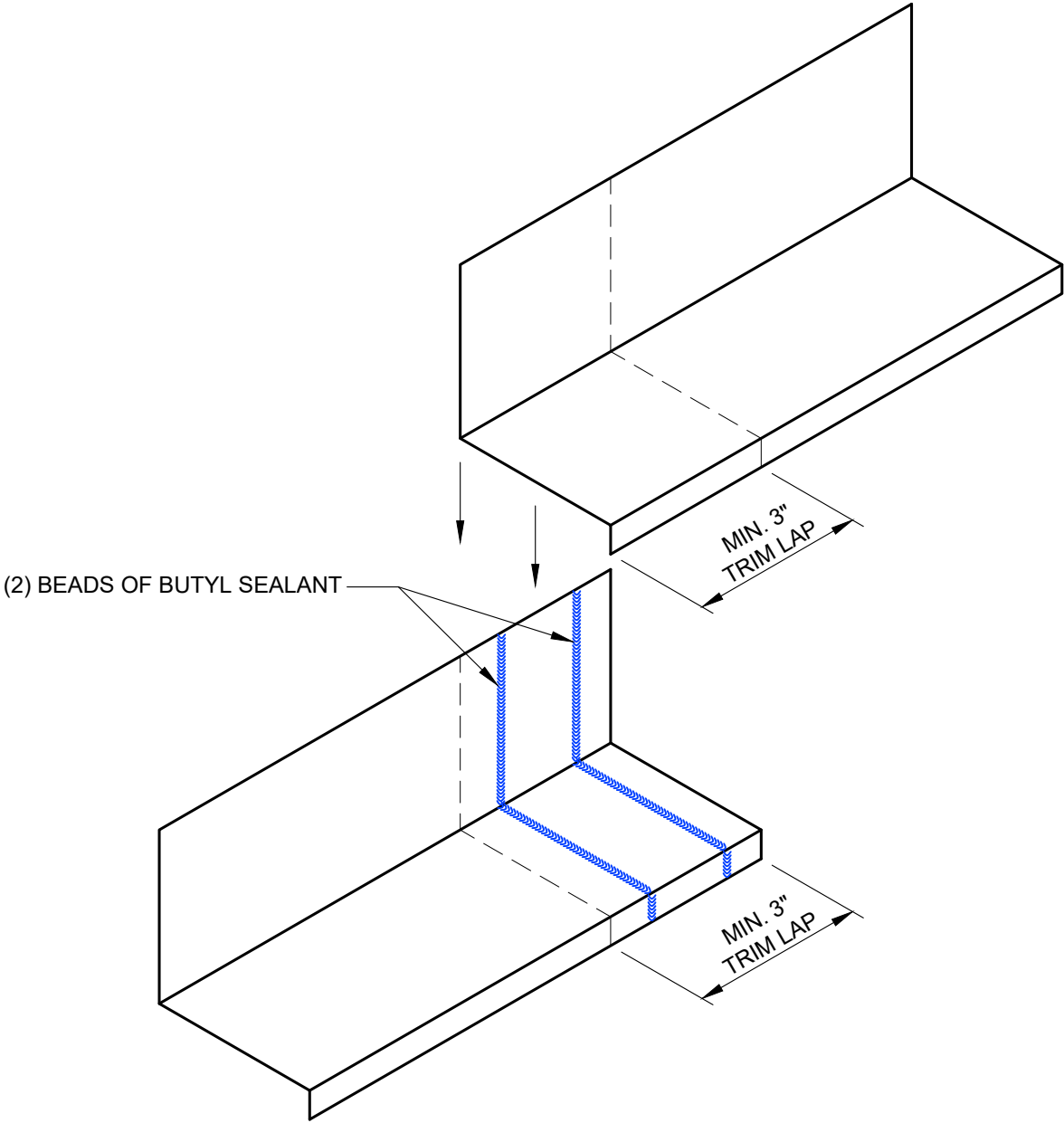
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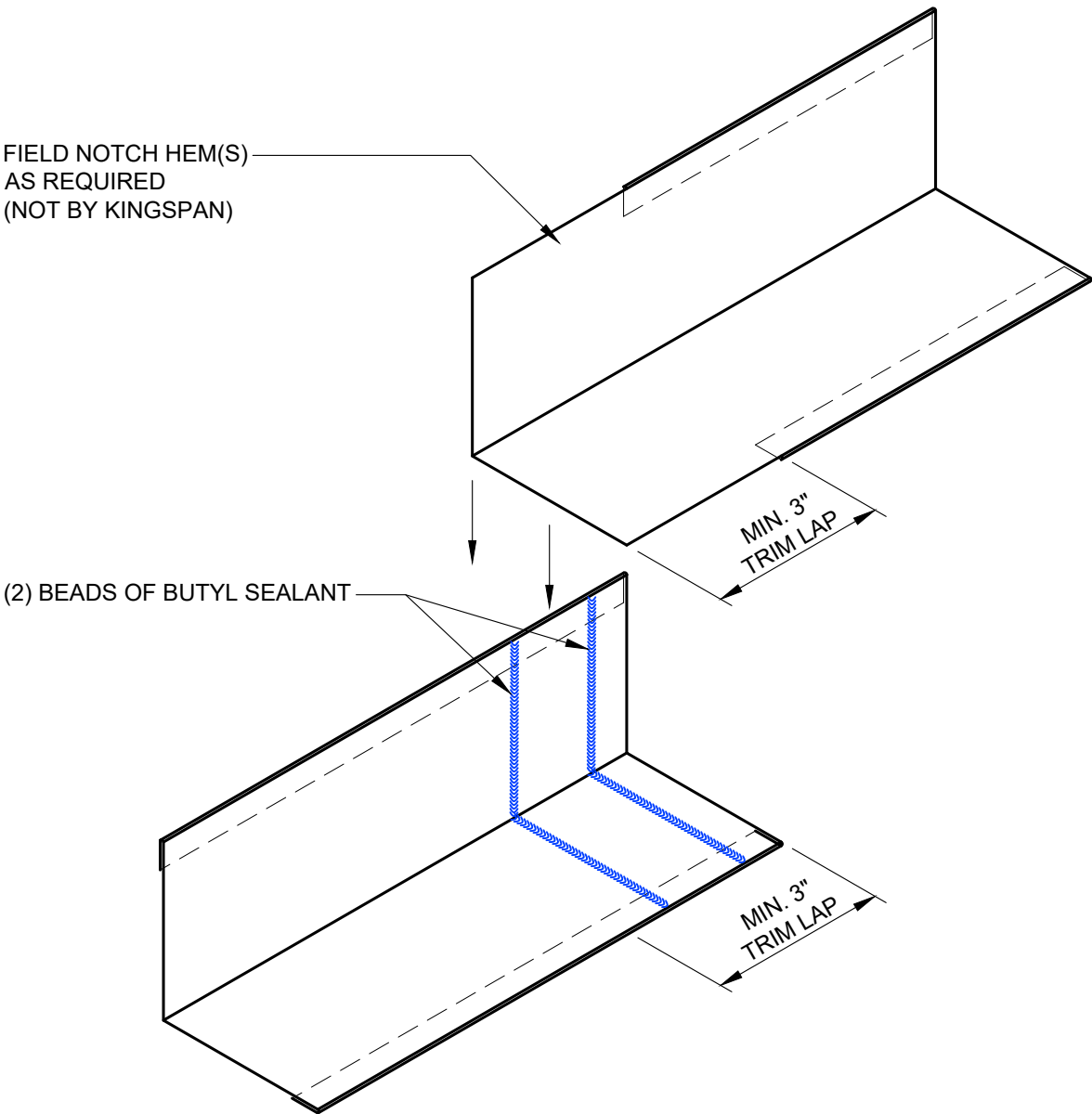
REVISION	
REVISION #	DATE
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TRIM END LAP
FLASHING

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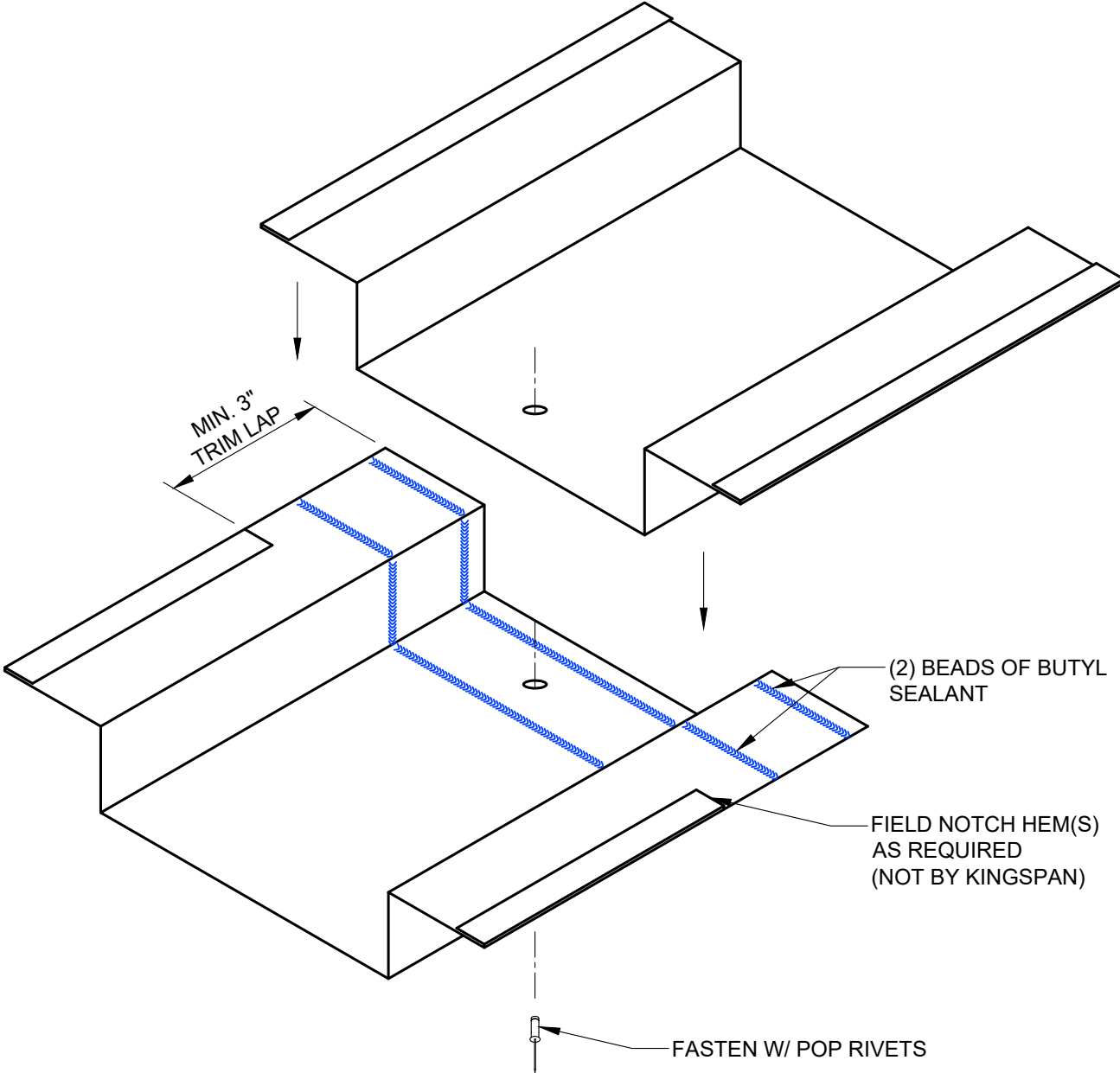
REVISION	
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TRIM LAP WITH HEM
CORNER TRIM

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REVISION	
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TRIM LAP WITH HEM
CEILING CHANNEL TRIM

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