

KINGSEAM ROOF PANEL

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KINGSEAM ROOF PANEL

DISCLAIMER:

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

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

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.

TO ENSURE YOU ARE VIEWING THE MOST RECENT AND ACCURATE PRODUCT INFORMATION, PLEASE VISIT WWW.KINGSPANPANELS.COM

CARE HAS BEEN TAKEN TO ENSURE THAT THE CONTENTS OF THIS PUBLICATION ARE ACCURATE, BUT KINGSPAN AND ITS SUBSIDIARY COMPANIES DO NOT ACCEPT RESPONSIBILITY FOR ERRORS OR FOR INFORMATION THAT IS FOUND TO BE MISLEADING. SUGGESTIONS FOR, OR DESCRIPTION OF, THE END USE OR APPLICATION OF PRODUCTS OR METHODS OF WORKING ARE FOR INFORMATION ONLY AND KINGSPAN LIMITED AND ITS SUBSIDIARIES ACCEPT NO LIABILITY IN RESPECT THEREOF.

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KINGSEAM ROOF PANEL

CORE DEPTHS:
3.25", 4", 5", 6"

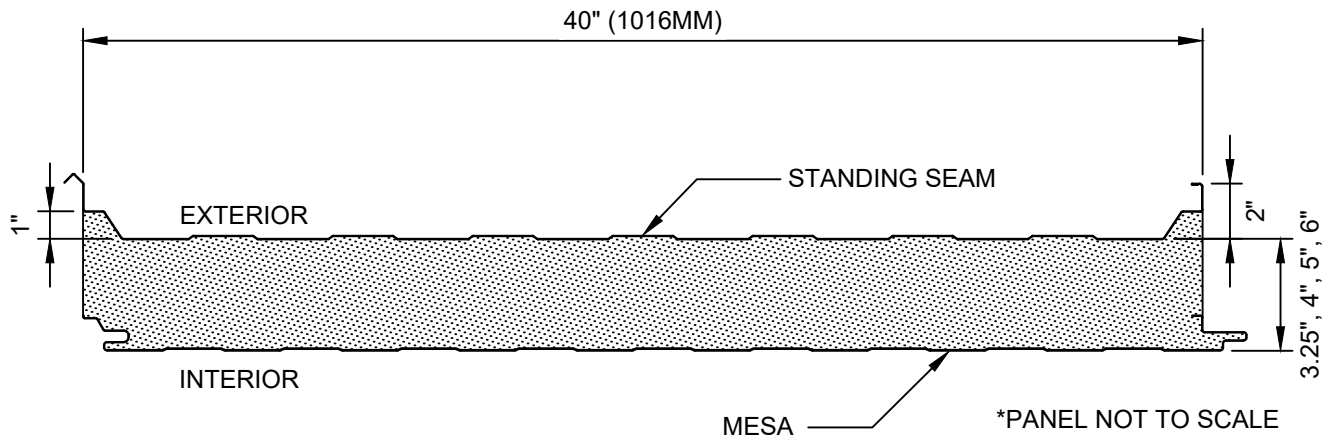
MODULE WIDTH:
40"

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

STEEL GAUGES:
EXTERIOR: 26ga STANDARD
(22ga, 24ga OPTIONAL)
INTERIOR: 26ga STANDARD
(22ga, 24ga OPTIONAL)

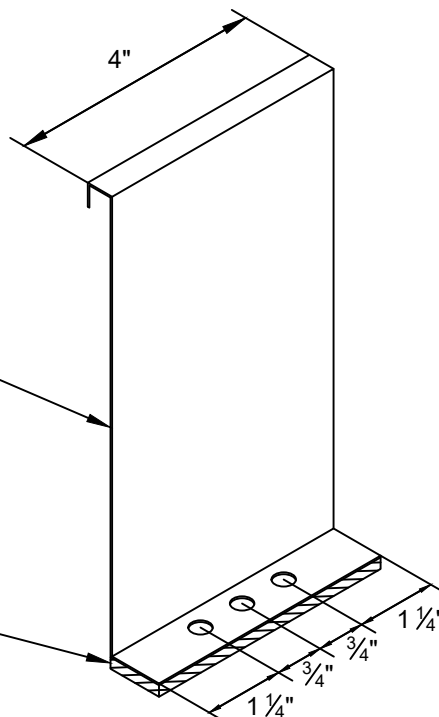
PANEL ORIENTATION:
ROOF ONLY
MINIMUM SLOPE:
1/4" : 12" (2° SLOPE)

LENGTHS:
MINIMUM: 8'-0"
MAXIMUM: 59'-0"
(MAXIMUM ALLOWABLE LENGTHS
SUBJECT TO SOLAR LOAD TABLE)



24 GAUGE STAINLESS STEEL
KINGSEAM ROOF PANEL CLIP

FACTORY-APPLIED FOAM
GASKET AT UNDERSIDE
OF ROOF CLIP



KINGSEAM CLIP ISOMETRIC

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PANEL PROFILE

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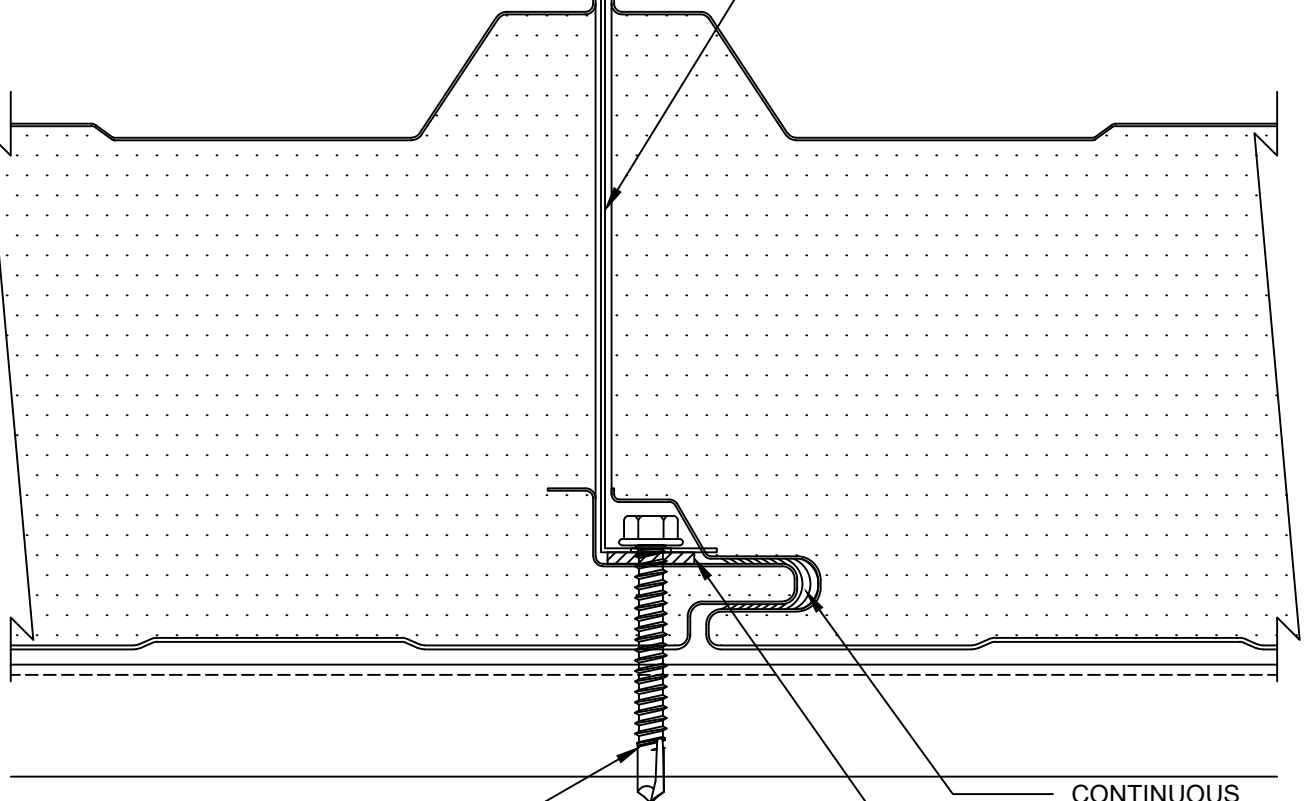
KINGSEAM ROOF PANEL

NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM. AFTER SR CLIP HAS BEEN INSTALLED IN PLACE OVER MALE LEG OF STANDING SEAM PANEL, PRE-CRIMP USING $\frac{1}{2}$ " HAND CRIMPING TOOL.

FIELD-APPLIED $\frac{1}{8}$ " BEAD OF BUTYL SEALANT ON UNDERSIDE OF PANEL CLIP

FIELD-APPLIED $\frac{1}{4}$ " BEAD OF NON-SKINNING BUTYL SEALANT

KINGSEAM ROOF PANEL (SR) CLIP W/ $\frac{1}{4}$ " Ø TEK FASTENERS W/O WASHER PER PANEL AT EACH SECONDARY SUPPORT



() $\frac{1}{4}$ " x 2" TEK _ FASTENERS W/O WASHER PER CLIP
(CONTACT KINGSPAN TECHNICAL SERVICES FOR PROJECT SPECIFIC FASTENING REQUIREMENTS)

CONTINUOUS BUTYL SEALANT IN FEMALE JOINT

FACTORY-APPLIED FOAM GASKET AT UNDERSIDE OF ROOF CLIP

ROOF INSTALLATION DIRECTION

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PANEL JOINT

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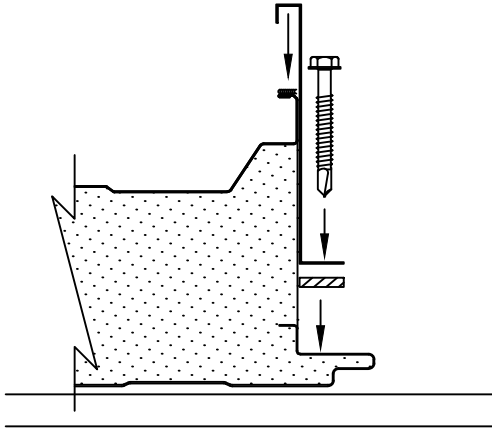
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KINGSEAM ROOF PANEL

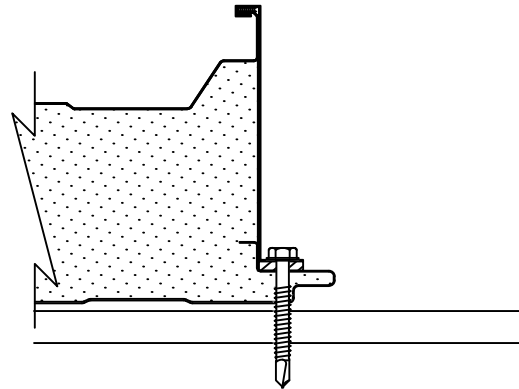
NOTE: DO NOT OVER DRIVE FASTENERS. IF METAL AT THE EDGE OF PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT COURSE OF PANELS WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM.

- ① SET PANEL IN PLACE, WITH CONTINUOUS BUTYL SEALANT ALONG STANDING RIB
- ② INSTALL KINGSEAM (SR) CLIP, AND HEX HEAD FASTENERS

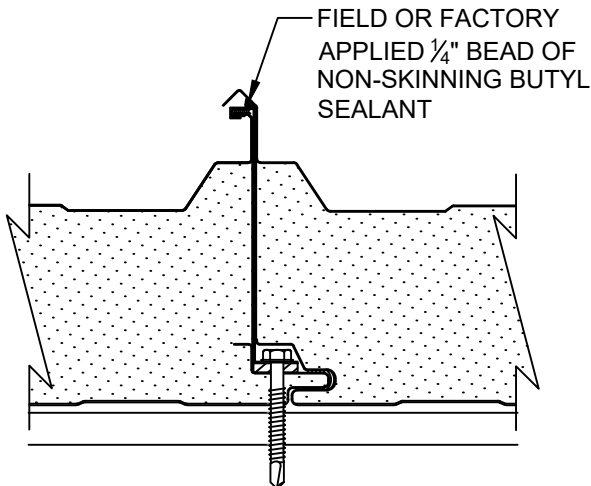


CONTACT KINGSPAN TECHNICAL SERVICES FOR PROJECT SPECIFIC FASTENING REQUIREMENTS

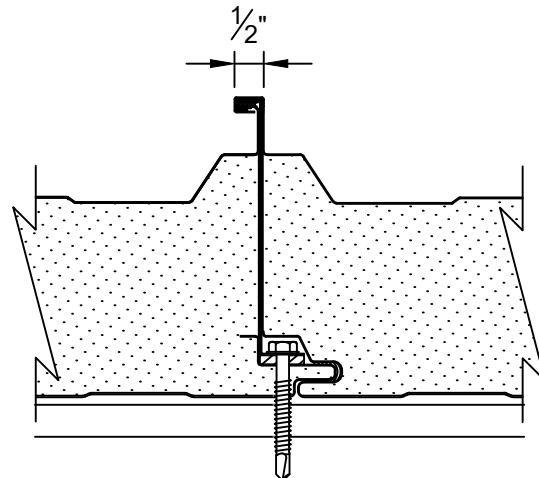
- ③ HAND "CRIMP" THE (SR) CLIP AT EACH CLIP LOCATION



- ④ INSTALL CONTINUOUS BUTYL SEALANT AT FEMALE JOINT OF NEXT PANEL
- ⑤ ENGAGE PANEL JOINTS



- ⑥ USE CLAMPS TO SECURE STANDING SEAM ASSEMBLY
- ⑦ HAND CRIMP STANDING SEAM ASSEMBLY AT CLIP LOCATIONS



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PANEL JOINT
SEQUENCE

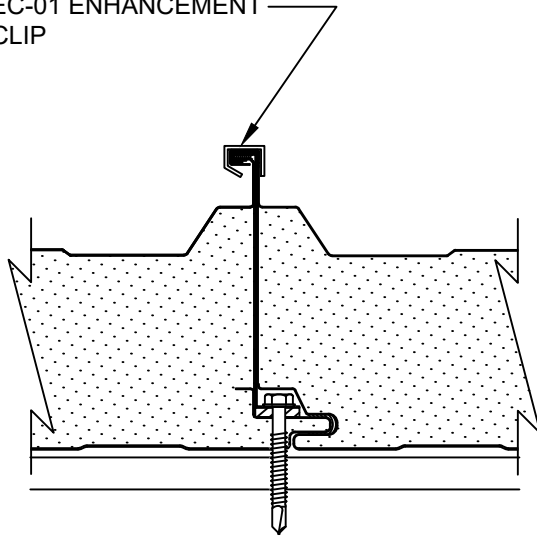
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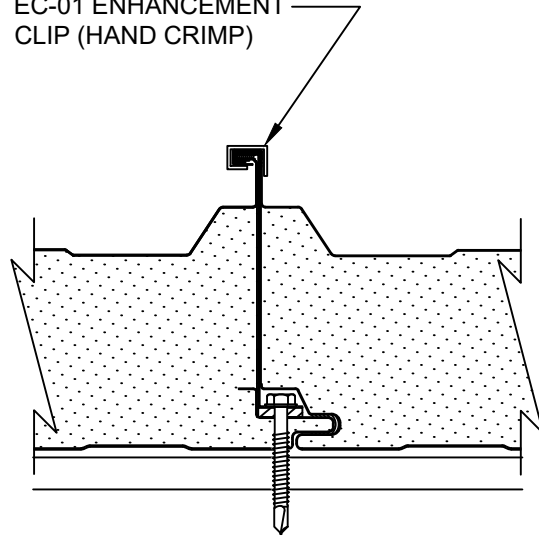
KINGSEAM ROOF PANEL

CONSULT KINGSPAN ENGINEERING FOR USAGE OF THE EC-01 ENHANCEMENT CLIP

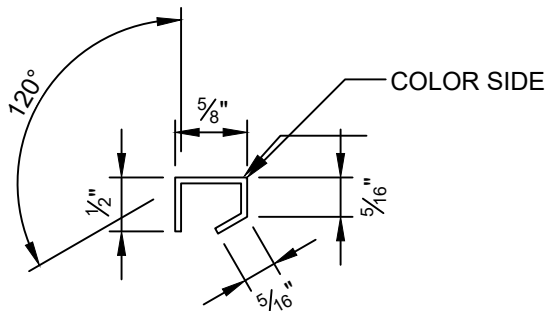
EC-01 ENHANCEMENT
CLIP



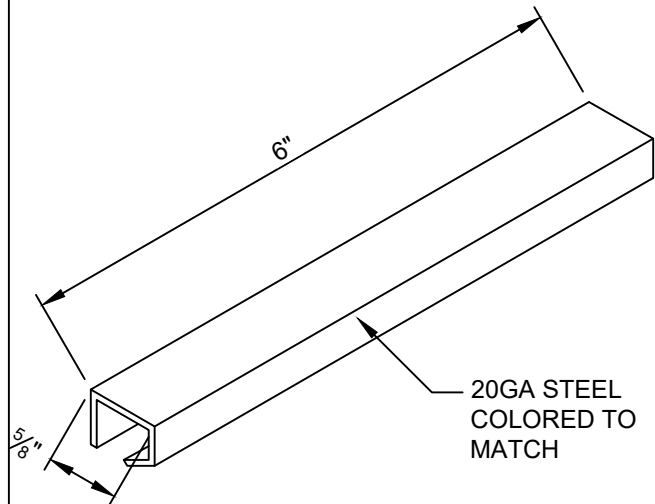
EC-01 ENHANCEMENT
CLIP (HAND CRIMP)



NOTE:
UNDIMENSIONED
ANGLES ARE 90°



EC-01 ENHANCEMENT CLIP SECTION VIEW
(NOT TO SCALE)
20GA STEEL COLORED TO MATCH



EC-01 ENHANCEMENT CLIP ISOMETRIC VIEW
(NOT TO SCALE)

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ENHANCEMENT CLIP INSTALLATION

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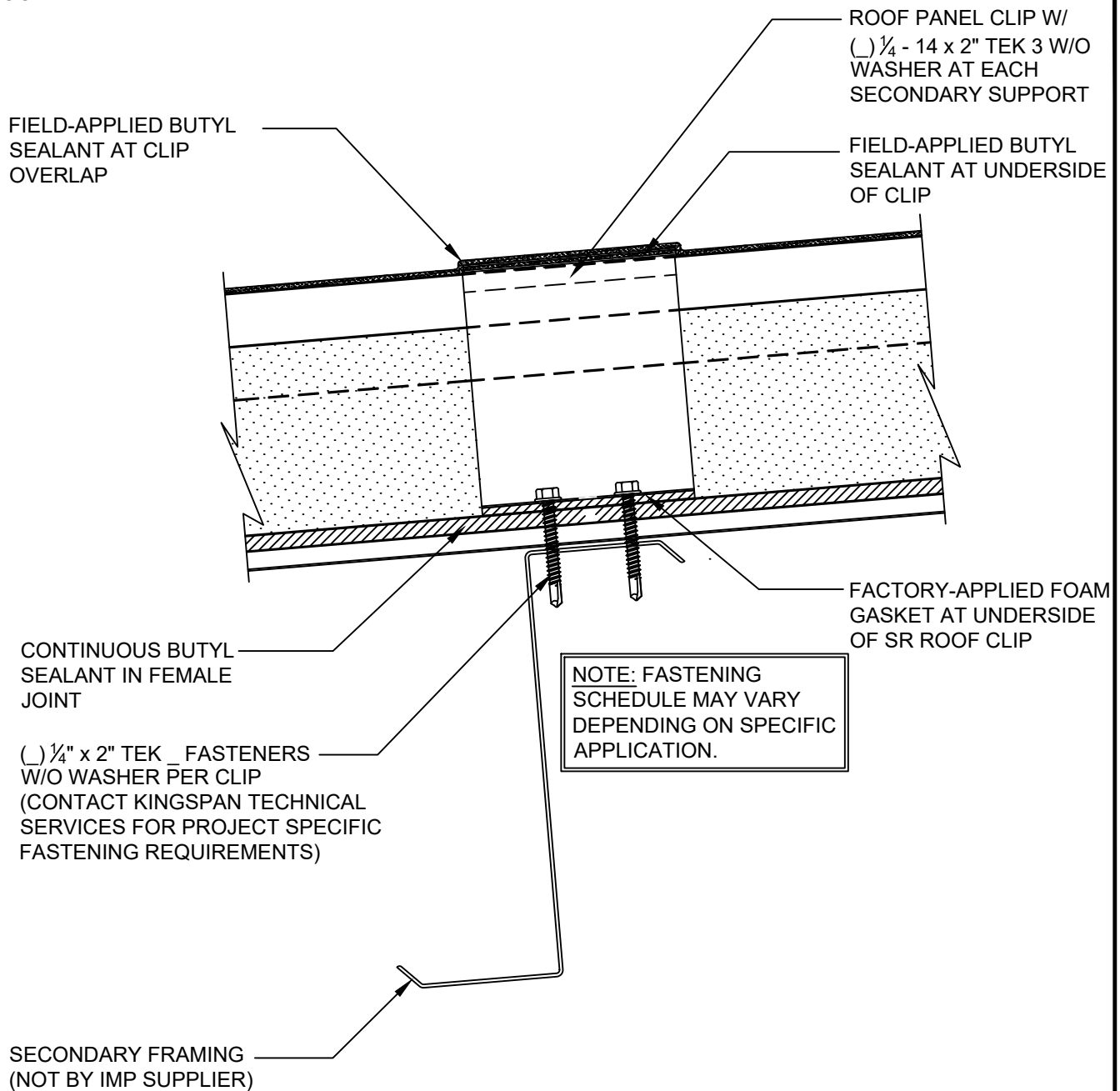
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NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM. AFTER SR CLIP HAS BEEN INSTALLED OVER MALE LEG OF STANDING SEAM PANEL, PRE-CRIMP, USING $\frac{1}{2}$ " HAND CRIMPING TOOL.



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PANEL JOINT AT
INTERMEDIATE
SUPPORT

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EC-01 ENHANCEMENT
CLIP

FIELD-APPLIED BUTYL
SEALANT AT CLIP
OVERLAP

ROOF PANEL CLIP W/
() ¼ - 14 x 2" TEK 3 W/O
WASHER AT EACH
SECONDARY SUPPORT

FIELD-APPLIED BUTYL
SEALANT AT UNDERSIDE
OF CLIP

CONTINUOUS BUTYL
SEALANT IN FEMALE
JOINT

() ¼" x 2" TEK _ FASTENERS
W/O WASHER PER CLIP
(CONTACT KINGSPAN TECHNICAL
SERVICES FOR PROJECT SPECIFIC
FASTENING REQUIREMENTS)

FACTORY-APPLIED FOAM
GASKET AT UNDERSIDE
OF SR ROOF CLIP

NOTE: FASTENING
SCHEDULE MAY VARY
DEPENDING ON SPECIFIC
APPLICATION.

SECONDARY FRAMING
(NOT BY IMP SUPPLIER)

CONSULT KINGSPAN ENGINEERING FOR USAGE OF THE EC-01 ENHANCEMENT CLIP

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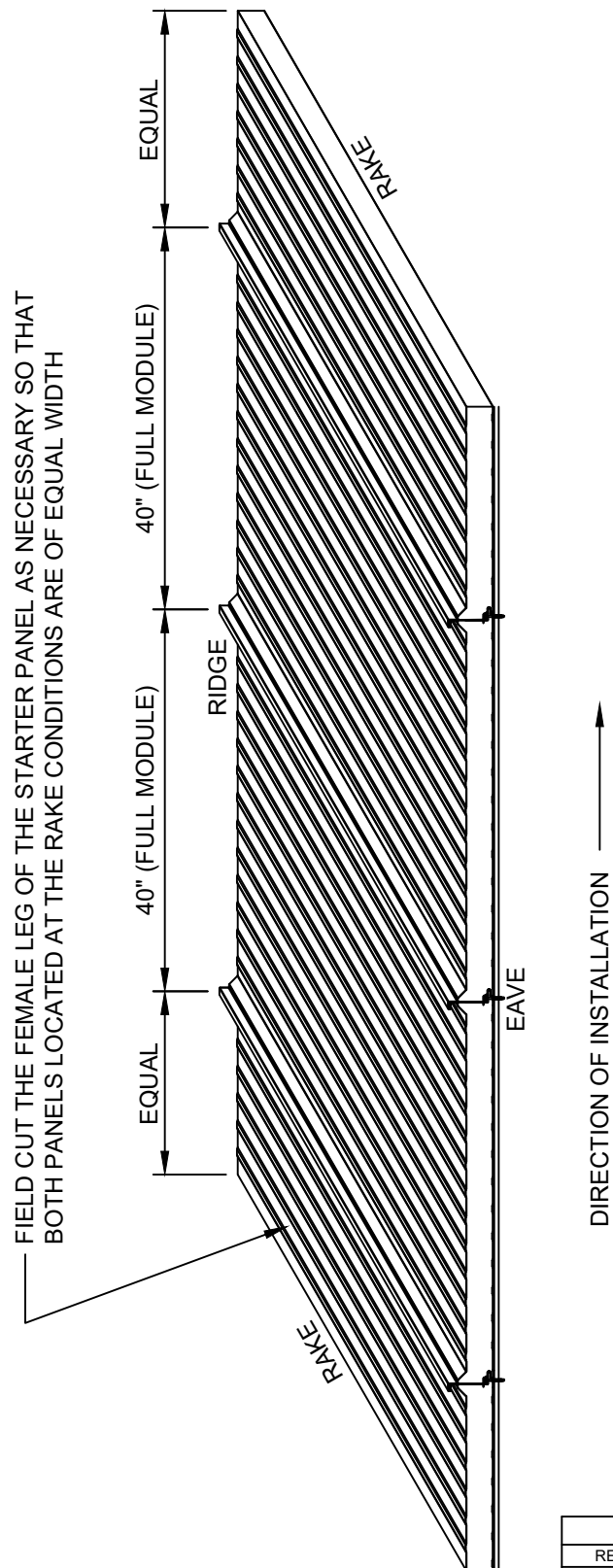
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PANEL JOINT AT
INTERMEDIATE SUPPORT
EC-01 ENHANCEMENT CLIP

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PANEL JOINT LAYOUT

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KINGSEAM ROOF PANEL

NOTE: BUTYL SEALANT AND BUTYL TAPE TO RUN ACROSS FULL WIDTH OF PANELS; NOT SHOWN AT HIGH RIBS FOR CLARITY.

CONTINUOUS $\frac{1}{2}$ " Ø BEADS OF GUN-GRADE NON-SKINNING BUTYL SEALANT ACROSS PANEL AT END-LAP

$\frac{1}{4}$ - 14 x $\frac{7}{8}$ " STITCH TEKS 2 $\frac{1}{2}$ " O/C AT LAP

1" x $\frac{3}{16}$ " BUTYL TAPE SEALANT

MENDING PLATE

CONTINUOUS BUTYL SEALANT W/ MARRIAGE BEAD TO FEMALE JOINT

SUPPORT ANGLE AND FASTENERS BY OTHERS (NOT BY IMP SUPPLIER)

SECONDARY FRAMING (NOT BY IMP SUPPLIER)

BUTYL SEALANT END DAM AT ALL ENDLAP JOINTS

FIELD-APPLIED BUTYL SEALANT ON UNDERSIDE OF SR CLIP

FIELD-APPLIED BUTYL SEALANT AT PANEL OVERLAP

CONTINUOUS BUTYL SEALANT IN FEMALE JOINT (TYP)

FACTORY-APPLIED FOAM GASKET AT UNDERSIDE OF SR ROOF CLIP

ROOF PANEL CLIP W/ () $\frac{1}{4}$ - 14 x 2" TEK - FASTENERS W/O WASHER PER CLIP, PER PANEL AT EACH LAP SECONDARY SUPPORT

NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM. AFTER SR CLIP HAS BEEN INSTALLED OVER MALE LEG OF STANDING SEAM PANEL, PRE-CRIMP, USING $\frac{1}{2}$ " HAND CRIMPING TOOL.

CONTACT KINGSPAN TECHNICAL SERVICES FOR PROJECT SPECIFIC FASTENING REQUIREMENTS

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ENDLAP

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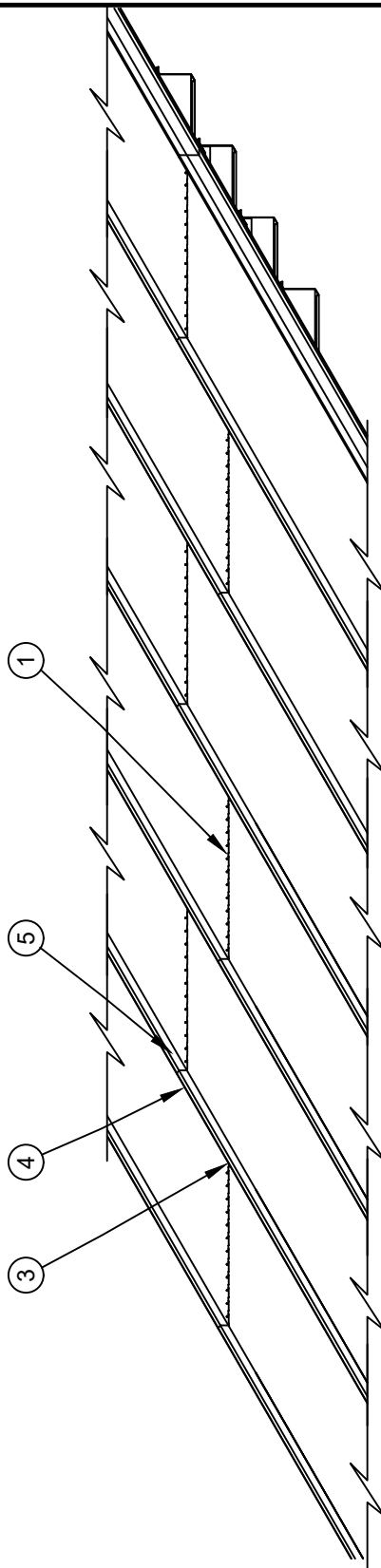
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KINGSEAM ROOF PANEL

- ① FASTENERS AT EVERY 2 ½" O.C. AT LAP
- ② ENDLAPS MUST BE STAGGERED
- ③ SEE MALE LEG ENDLAP DETAIL
- ④ SEE CONTINUOUS MALE LEG DETAIL
- ⑤ SEE FEMALE LEG ENDLAP DETAIL



STAGGERED ENDLAP ASSEMBLY
(ISOMETRIC VIEW - TYPICAL)

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STAGGERED ENDLAP ASSEMBLY

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KINGSEAM ROOF PANEL

NOTE: CONTRACTOR SHALL REMOVE FOAM FROM ENDLAP CUTBACK IN THE FIELD. EXTRA CARE SHOULD BE TAKEN TO REMOVE FOAM CLEANLY FROM METAL THAT WILL BE DIRECTLY OVER BUTYL TAPE SEALANT.

UPPER COURSE
KINGSEAM STANDING
SEAM PANELS

BUTYL SEALANT
END DAM AT ALL
ENDLAP JOINTS

6" ENDLAP CUTBACK
(SEE NOTE)

ENDLAP PREPARATION
(ISOMETRIC VIEW)

NOTE: CONTRACTOR SHALL REMOVE FOAM FROM 3" CUTBACK BENEATH EXTERIOR FASER. EXTRA CARE SHOULD BE TAKEN TO REMOVE FOAM CLEANLY FROM METAL THAT WILL BE DIRECTLY OVER BUTYL TAPE OR SEALANT.

BUTYL SEALANT
END DAM AT ALL
ENDLAP JOINTS

3" EAVE CUTBACK
(SEE NOTE)

EAVE PREPARATION
(ISOMETRIC VIEW)

USE METAL SNIPS TO CUT OFF THE EXPOSED METAL EDGE AT THE SIDE JOINT FACE AT EACH SIDE OF ROOF PANEL FOR PROPER NESTING OF UPPER COURSE OF OVERLAPPING KINGSEAM ROOF PANEL

LOWER COURSE
KINGSEAM STANDING
SEAM PANELS

FIELD-APPLIED 1/4"
BEAD OF
NON-SKINNING
BUTYL SEALANT

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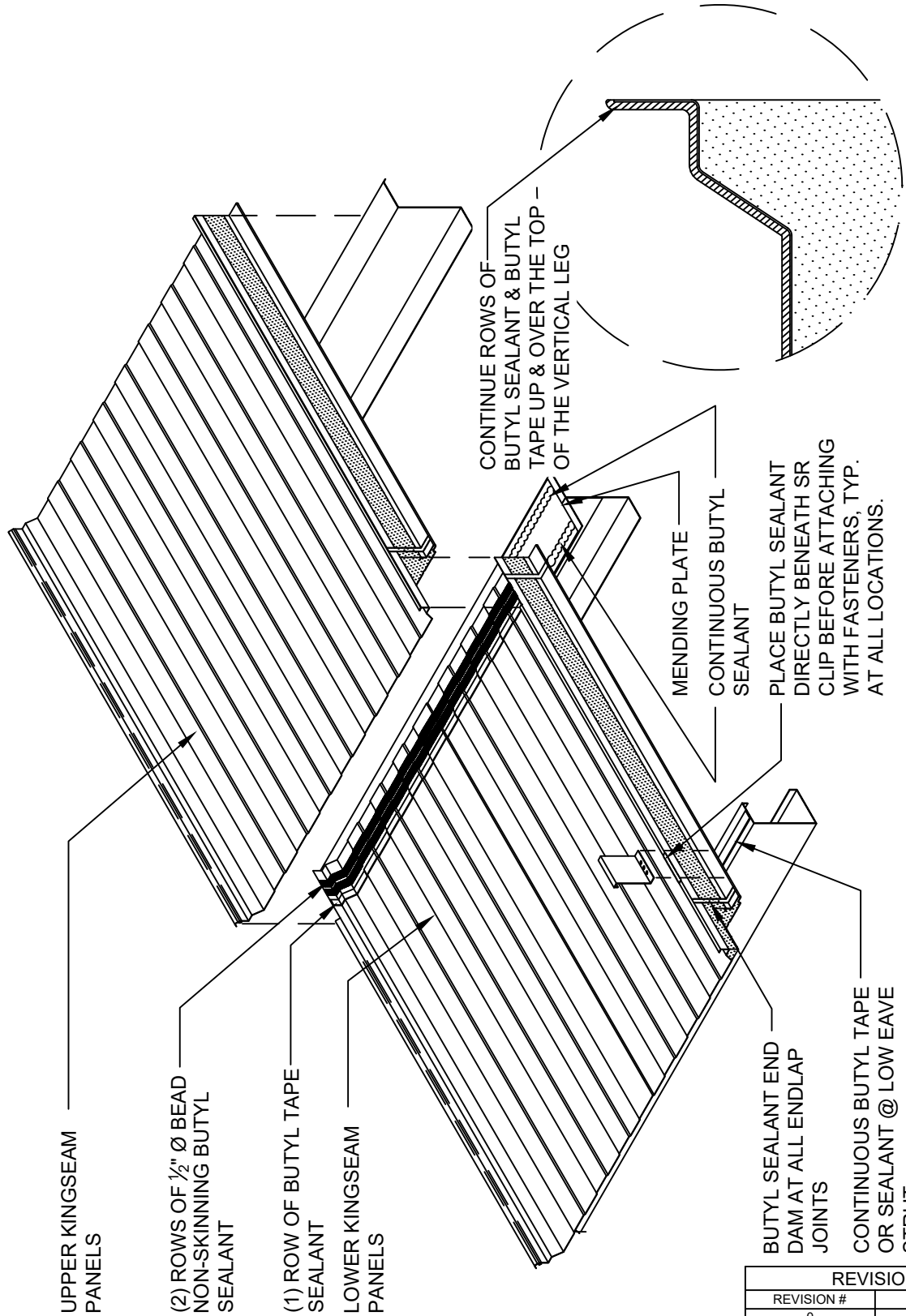
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MALE LEG
ENDLAP

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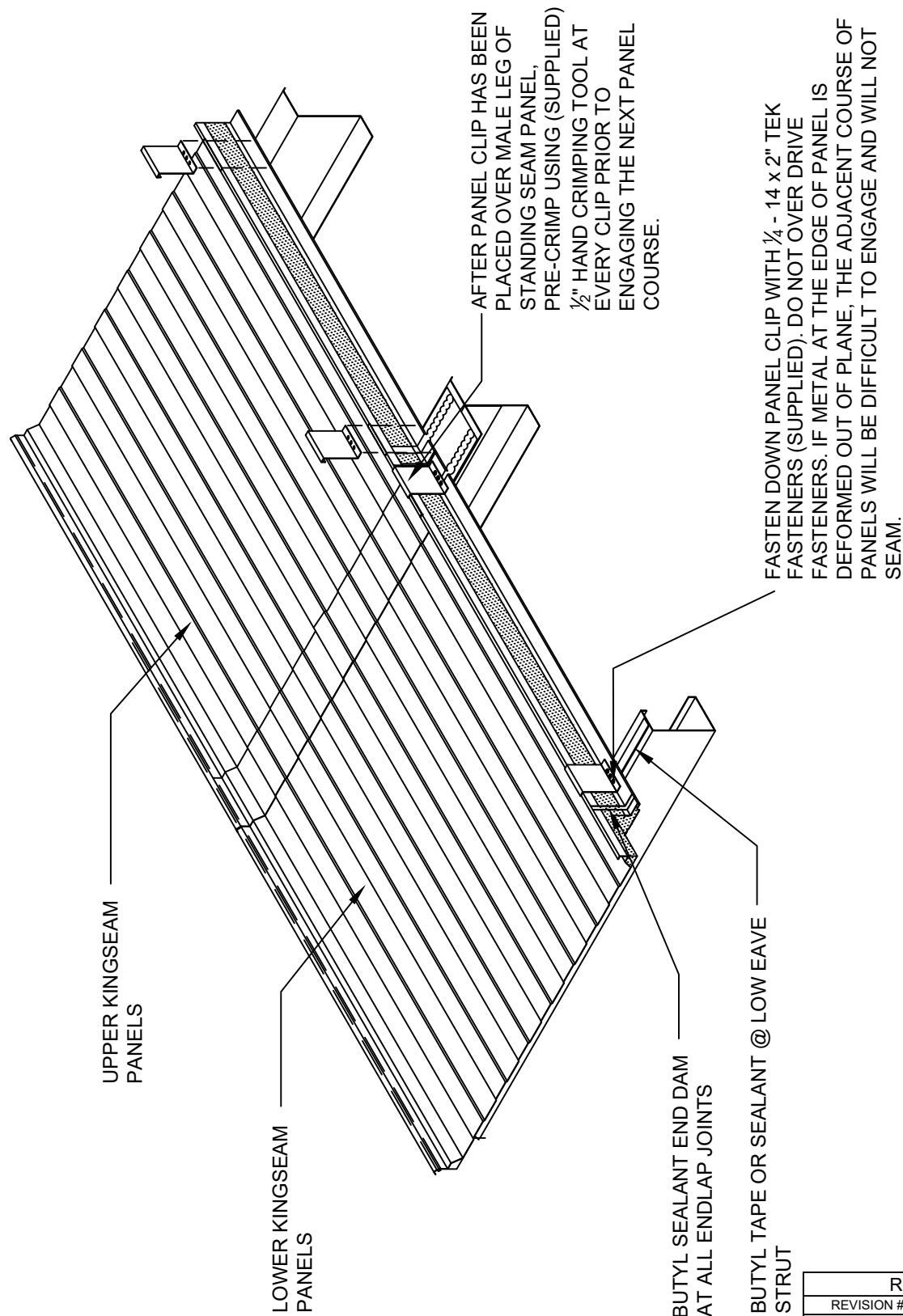
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CONTINUOUS MALE
LEG AT STAGGERED
ENDLAP

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KINGSEAM ROOF PANEL



SR PANEL CLIP PREPARATION
(ISOMETRIC VIEW)

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FEMALE LEG
ENDLAP

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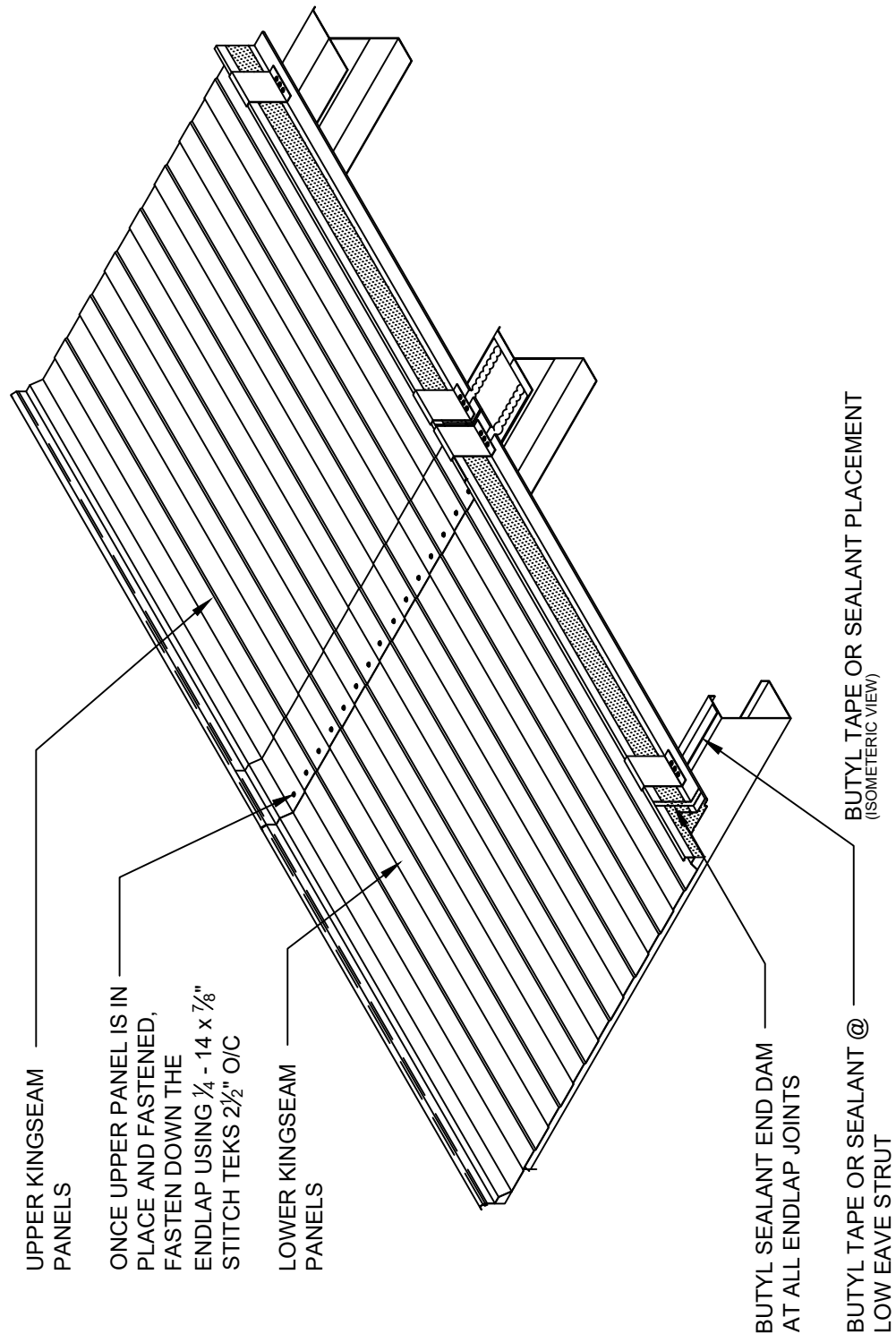
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ENDLAP CONDITIONS

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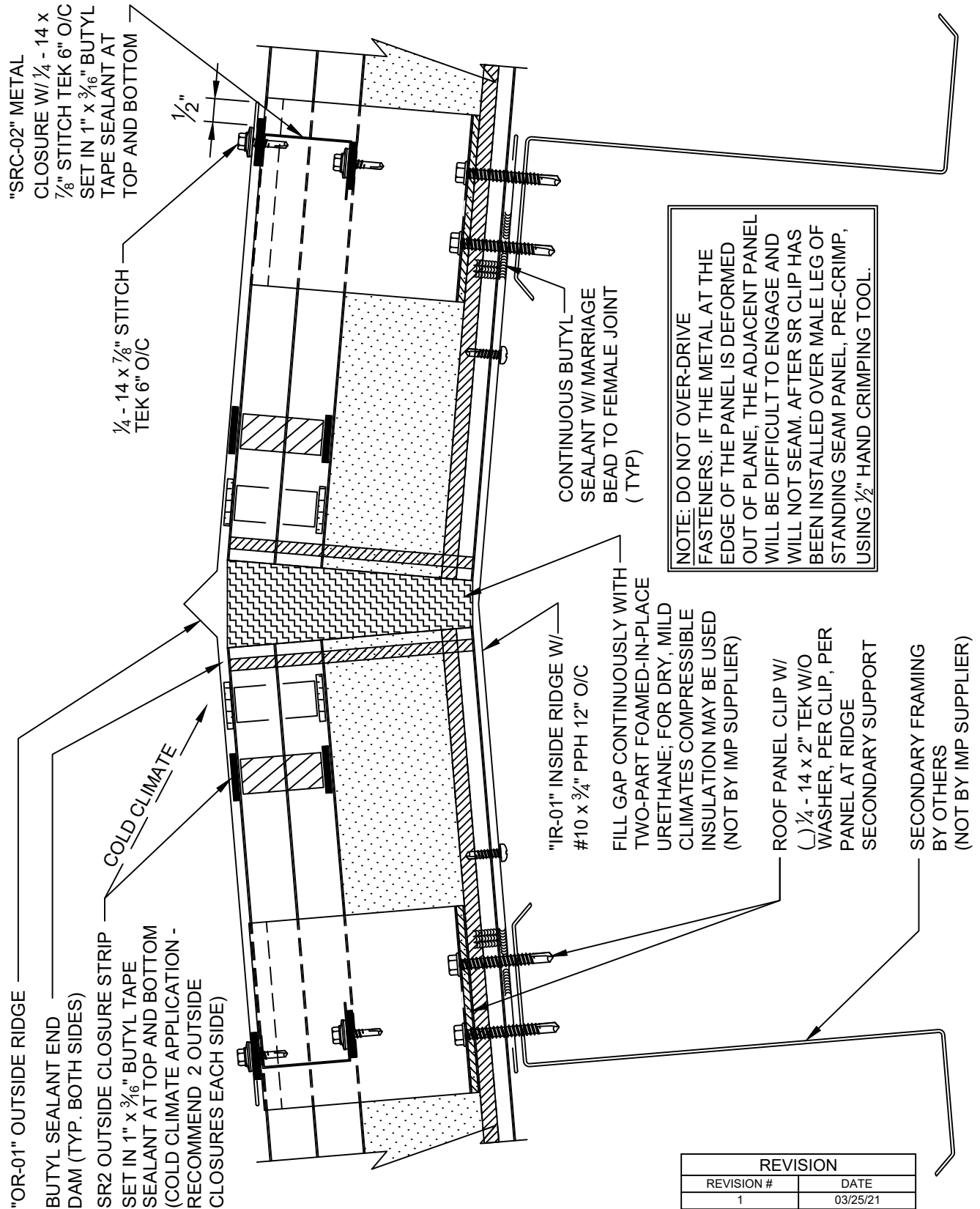
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RIDGE

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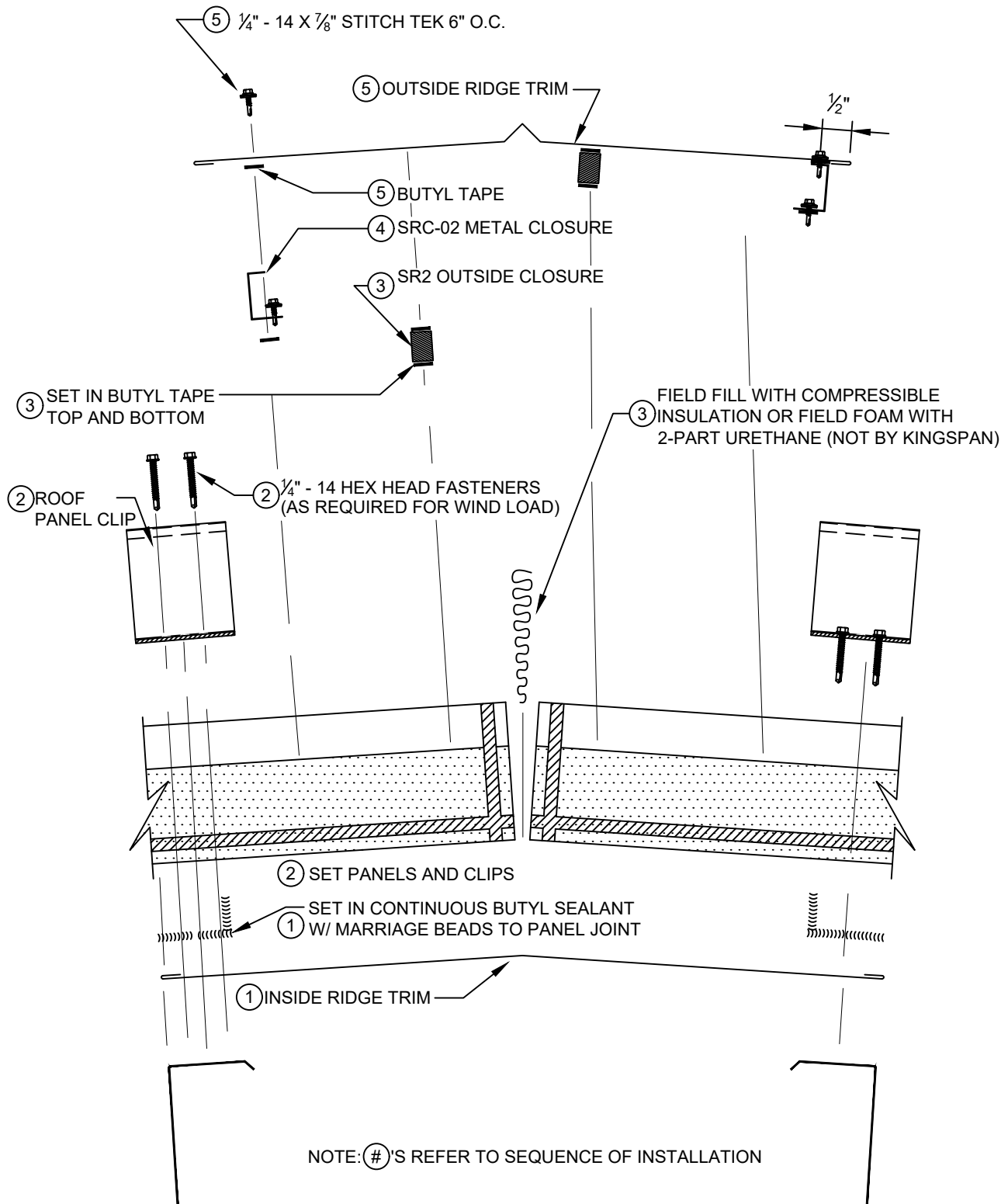
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RIDGE ASSEMBLY

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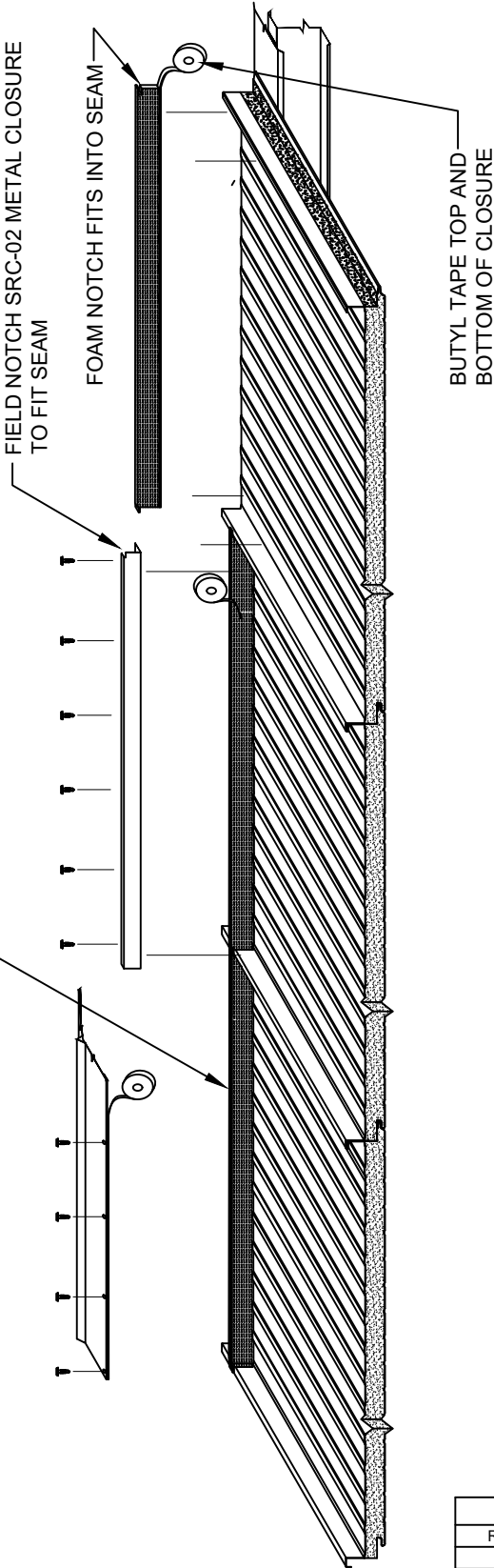


KINGSEAM ROOF PANEL

NOTES:

1. PANELS NEED TO BE COMPLETELY INSTALLED AND FULLY SEALED BEFORE BEGINNING RIDGE INSTALLATION
2. PANEL GUIDE LINE MARKS SHOULD BE USED TO POSITION COMPONENTS CORRECTLY
3. APPLY CONTINUOUS BUTYL TAPE ACROSS ENTIRE PANEL INCLUDING VERTICAL LEGS. SET SR2 FOAM CLOSURE INTO PLACE, THEN APPLY CONTINUOUS BUTYL TAPE OVER TOP OF FOAM CLOSURE
4. FASTEN SRC-02 METAL RIDGE CLOSURE TRIM AT 6" O.C. (FASTENER SPACING MAY VARY WITH WIND LOAD)
5. AT THE RAKES, FIELD CUT THE END OF THE FOAM CLOSURE AND RIDGE CLOSURE TRIM TO FIT WITH THE RAKE FASCIA
6. SEE RIDGE DETAILS CI-RD-01-KINGSEAM & CI-RD-02-KINGSEAM FOR ADDITIONAL INFORMATION

NOTE: SR2 FOAM CLOSURE DOES NOT
REQUIRE SRC-02 RIDGE CLOSURE TRIM.



REVIEW RIDGE AND CONFIRM
NEEDS NEW PROFILES

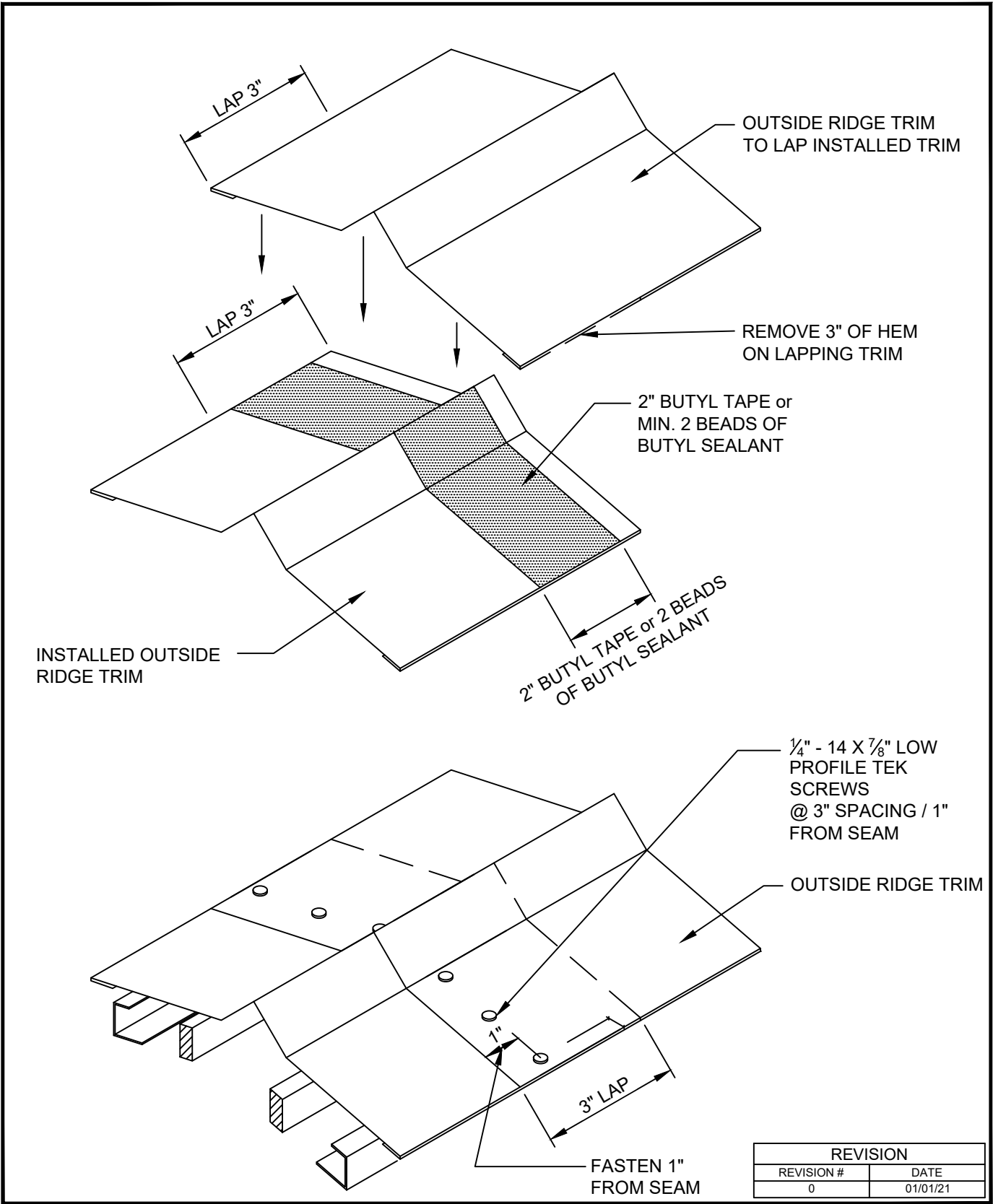
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RIDGE CLOSURE
ASSEMBLY

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RIDGE TRIM LAP

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NOTE: FIELD REMOVE FOAM AND LINER AT CUTBACK.

INSIDE CLOSURE STRIP W/ 1" x $\frac{3}{16}$ " BUTYL TAPE SEALANT AT TOP & BOTTOM

$\frac{1}{4}$ - 14 x $\frac{7}{8}$ " STITCH TEKS 6" O/C

3" CUTBACK

"LE-__" LOW EAVE TRIM

EXPANDABLE INSULATION (NOT BY KINGSPAN)

CAP TRIM W/ POP RIVETS @ 8" O.C. (SEALANT BETWEEN INTERIOR AND EXTERIOR CAP TRIMS)

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

POP RIVETS @ 8" O.C.

CONTINUOUS BUTYL SEALANT AT VERTICAL JOINT

BUTYL SEALANT END DAM; FILL INTERIOR JOINT CAVITY

ROOF PANEL CLIP W/ () $\frac{1}{4}$ - 14 x 2" TEK FASTENERS W/O WASHER PER CLIP, PER PANEL AT EAVE STRUT

CONTINUOUS BUTYL SEALANT IN FEMALE JOINT

CONTINUOUS BUTYL SEALANT W/ MARRIAGE BEAD TO PANEL JOINT

CONTINUOUS BUTYL SEALANT W/ MARRIAGE BEAD TO PANEL FACE

(2) $\frac{1}{4}$ " - 14 HEX HEAD FASTENERS PER CLIP

CT-__ CAP TRIM

EAVE STRUT (NOT BY IMP SUPPLIER)

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LOW EAVE W/O GUTTER

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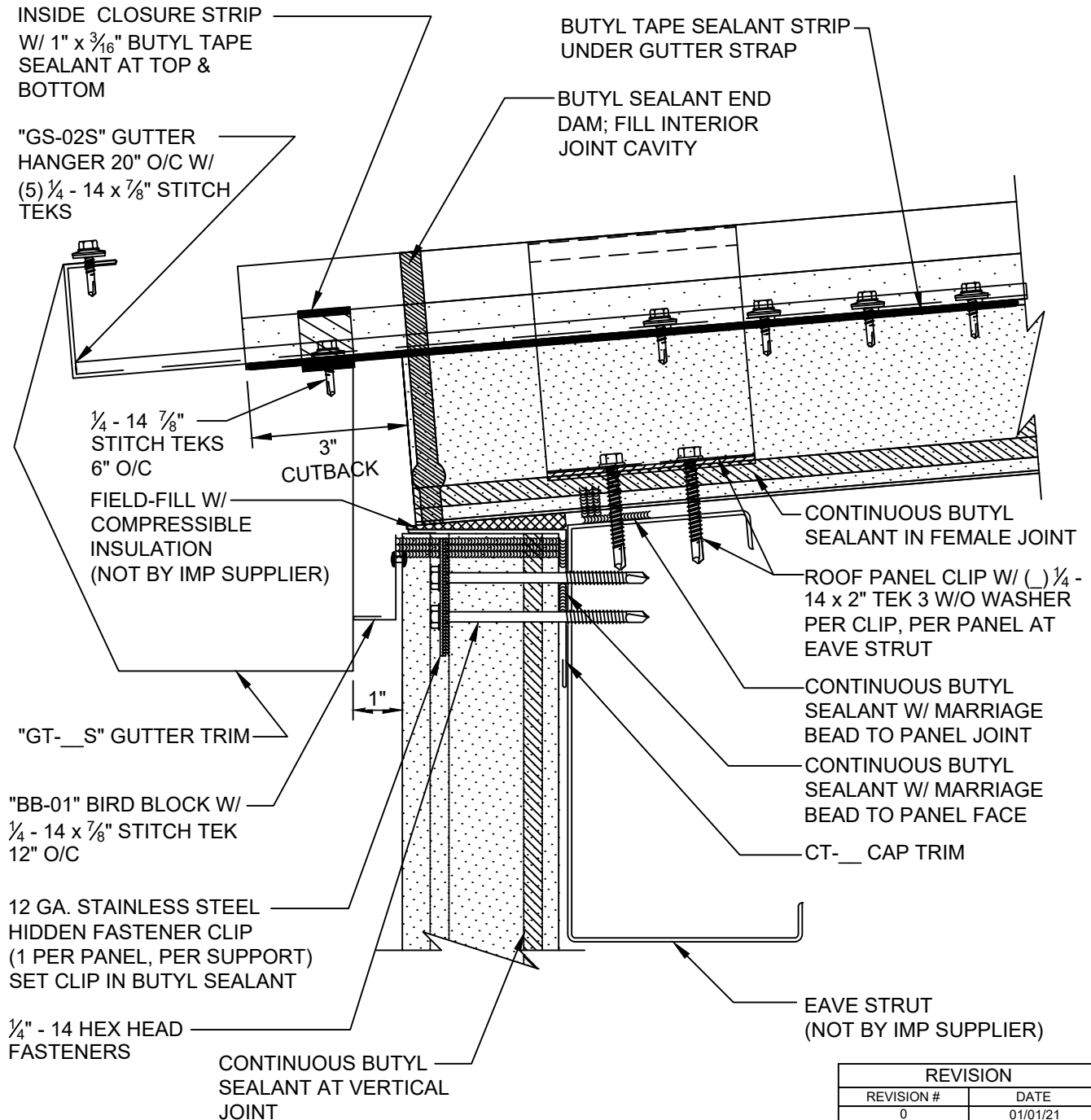
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NOTE: FIELD REMOVE FOAM AND LINER AT CUTBACK.



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LOW EAVE W/ GUTTER

DETAIL #: CI-EV-02A-KINGSEAM

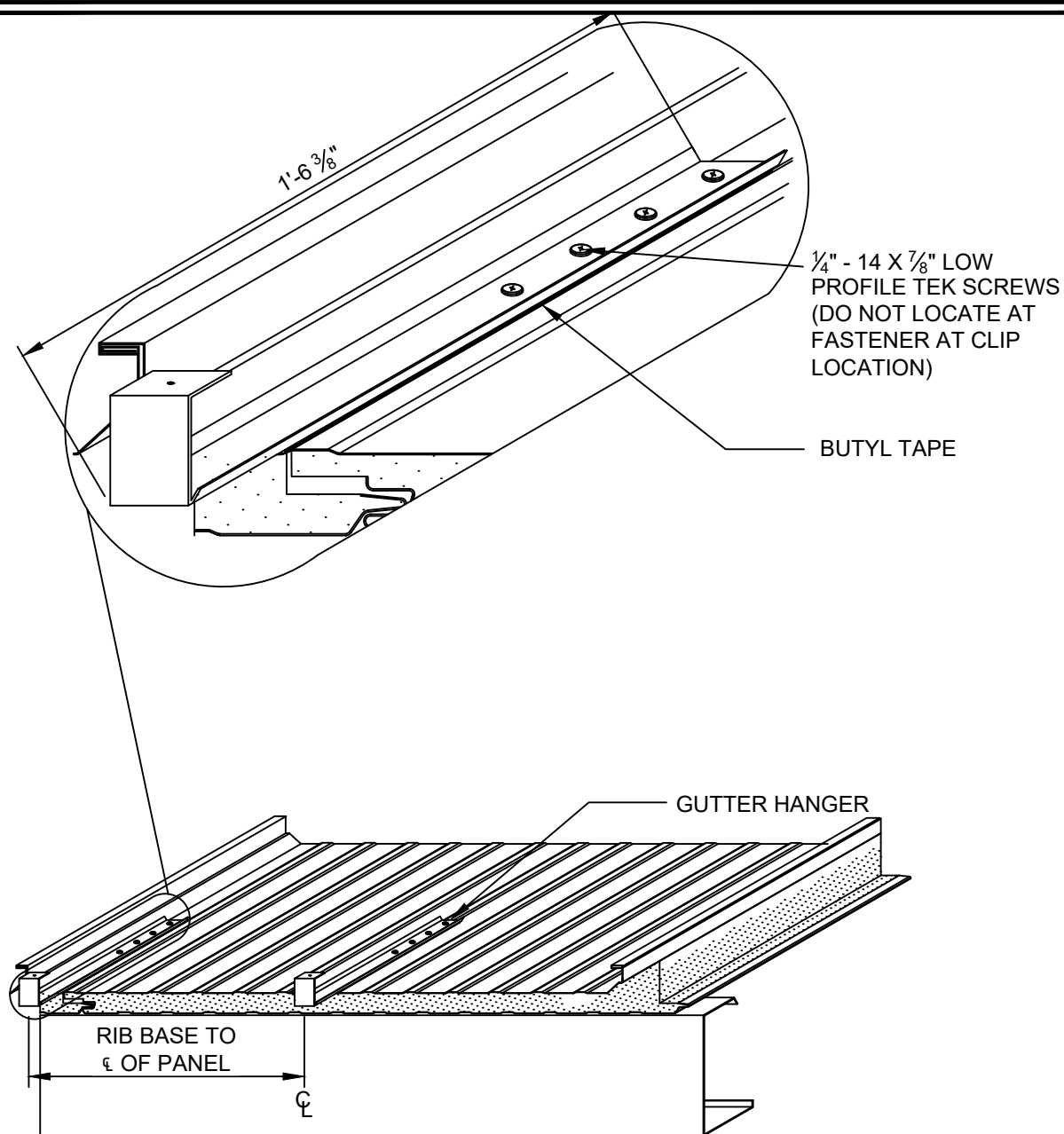
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KINGSEAM ROOF PANEL



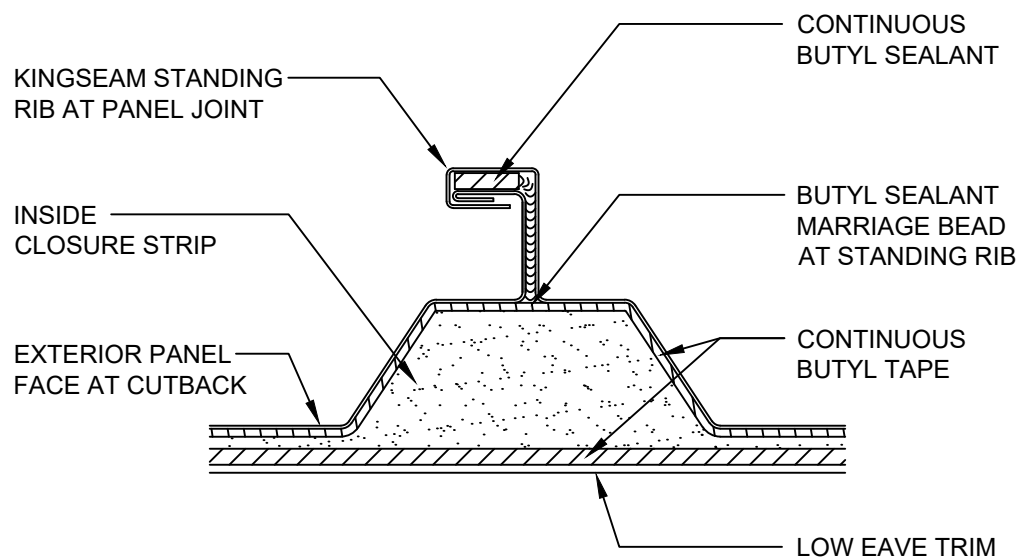
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GUTTER HANGER

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LOW EAVE SEALANT
AT STANDING RIB

DETAIL #: CI-EV-02C-KINGSEAM
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KINGSEAM ROOF PANEL

NOTE: DO NOT OVER-DRIVE FASTENERS. IF THE METAL AT THE EDGE OF THE PANEL IS DEFORMED OUT OF PLANE, THE ADJACENT PANEL WILL BE DIFFICULT TO ENGAGE AND WILL NOT SEAM. AFTER SR CLIP HAS BEEN INSTALLED OVER MALE LEG OF STANDING SEAM PANEL, PRE-CRIMP, USING $\frac{1}{2}$ " HAND CRIMPING TOOL.

1" x $\frac{3}{16}$ " BUTYL TAPE
SEALANT AT TOP AND
BOTTOM

OUTSIDE CLOSURE STRIP SET IN 1" x $\frac{3}{16}$ "
BUTYL TAPE AT TOP AND BOTTOM (COLD
CLIMATE APPLICATION - RECOMMEND 2
OUTSIDE CLOSURES EACH SIDE)

SR- ROOF PANEL CLIP W/ () $\frac{1}{4}$ - 14
x 2" TEK FASTENERS W/O WASHER,
PER CLIP, PER PANEL AT HIGH
EAVE STRUT

"HE-01S" HIGH
EAVE TRIM

BUTYL SEALANT
END DAM; FILL
INTERIOR JOINT
CAVITY

EXPANDABLE
INSULATION
(NOT BY KINGSPAN)

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

POP RIVETS
@ 8" O.C.

(2) $\frac{1}{4}$ " - 14 HEX HEAD
FASTENERS PER CLIP

CONTINUOUS BUTYL
SEALANT AT
VERTICAL JOINT

COLD CLIMATE

$\frac{1}{4}$ - 14 x $\frac{7}{8}$ " STITCH
TEK 6" O/C

$\frac{1}{2}$ "

"SRC-02" METAL
CLOSURE W/ $\frac{1}{4}$ - 14 x $\frac{7}{8}$ "
STITCH TEK 6" O/C

CONTINUOUS BUTYL
SEALANT IN FEMALE
JOINT

CONTINUOUS BUTYL
SEALANT W/ MARRIAGE
BEAD TO PANEL JOINT

CONTINUOUS BUTYL
SEALANT W/ MARRIAGE
BEAD TO PANEL FACE

CT-__ CAP TRIM

HIGH EAVE STRUT
(NOT BY IMP SUPPLIER)

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HIGH EAVE

DETAIL #: CI-EV-03-KINGSEAM

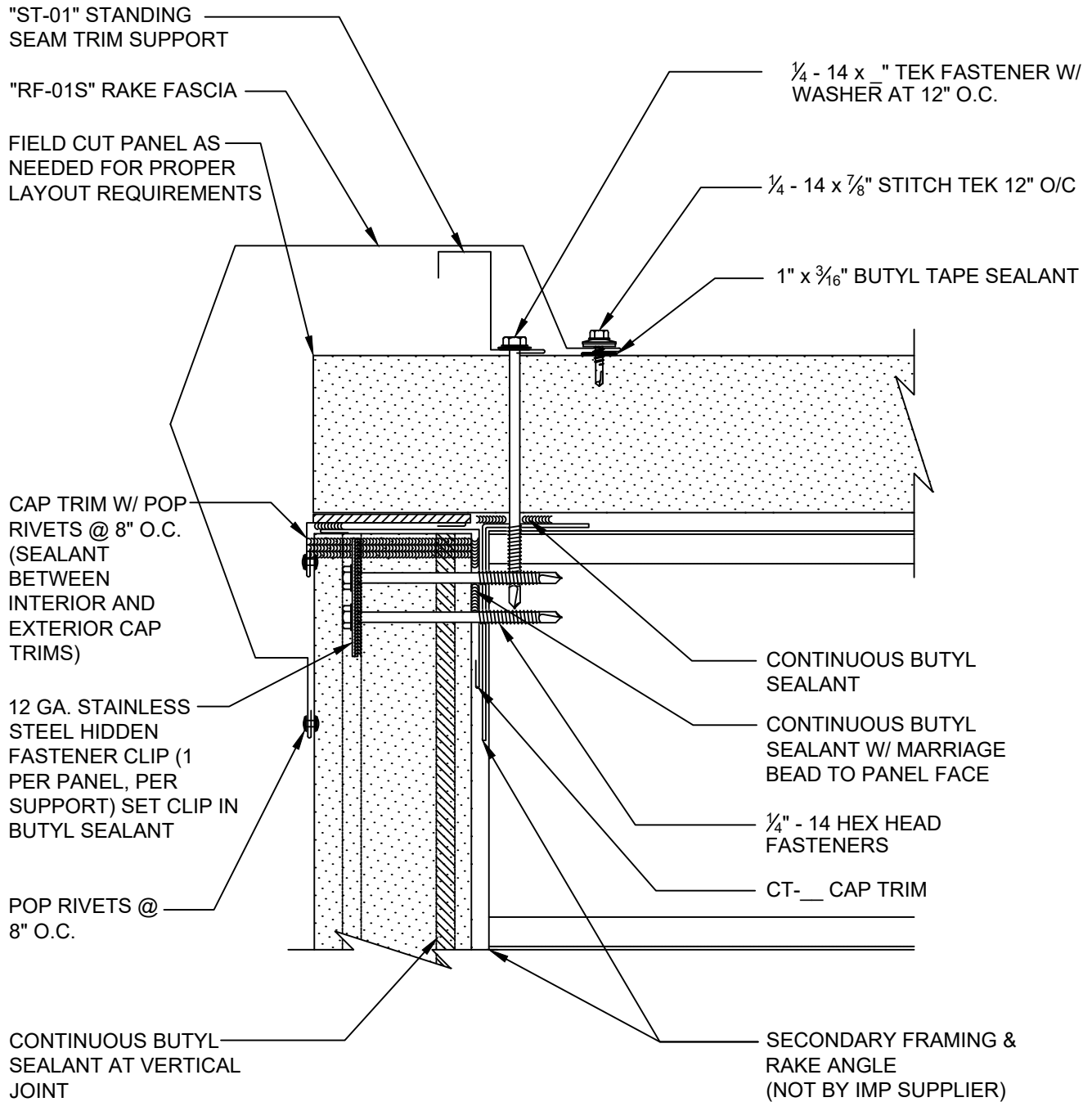
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KINGSEAM ROOF PANEL



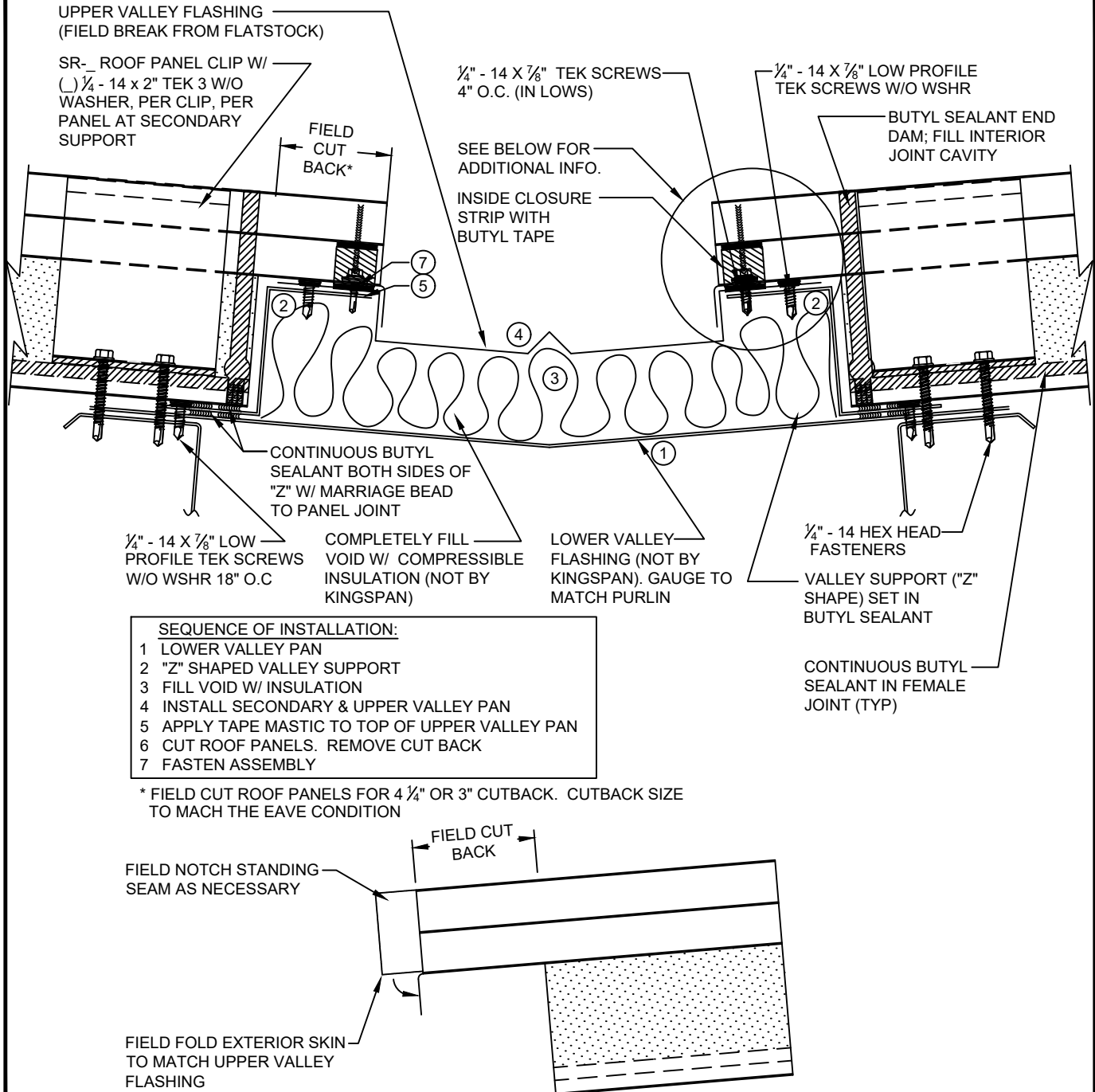
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RAKE

DETAIL #: CI-RK-01-KINGSEAM
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KINGSEAM ROOF PANEL



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VALLEY ASSEMBLY

DETAIL #: CI-VL-02-KINGSEAM

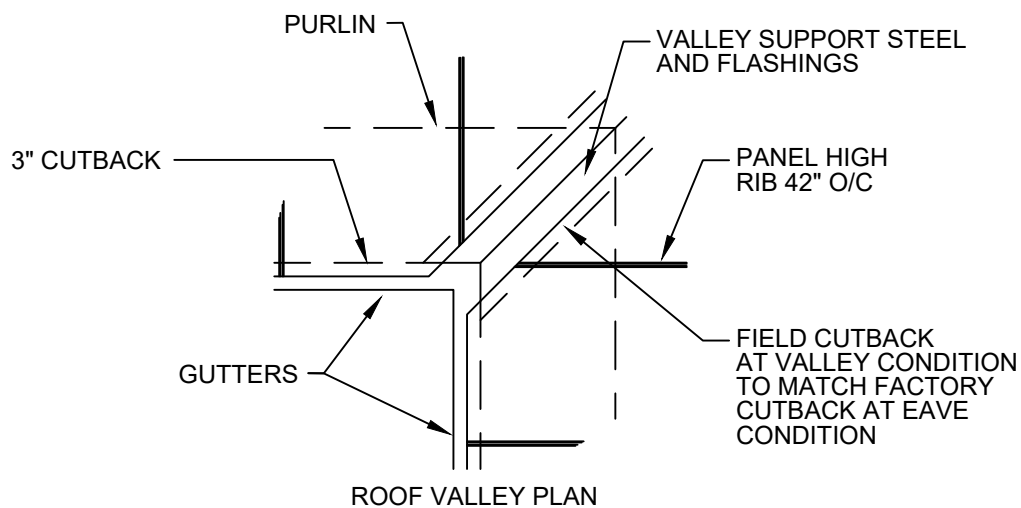
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VALLEY ASSEMBLY

DETAIL #: CI-VL-02-KINGSEAM

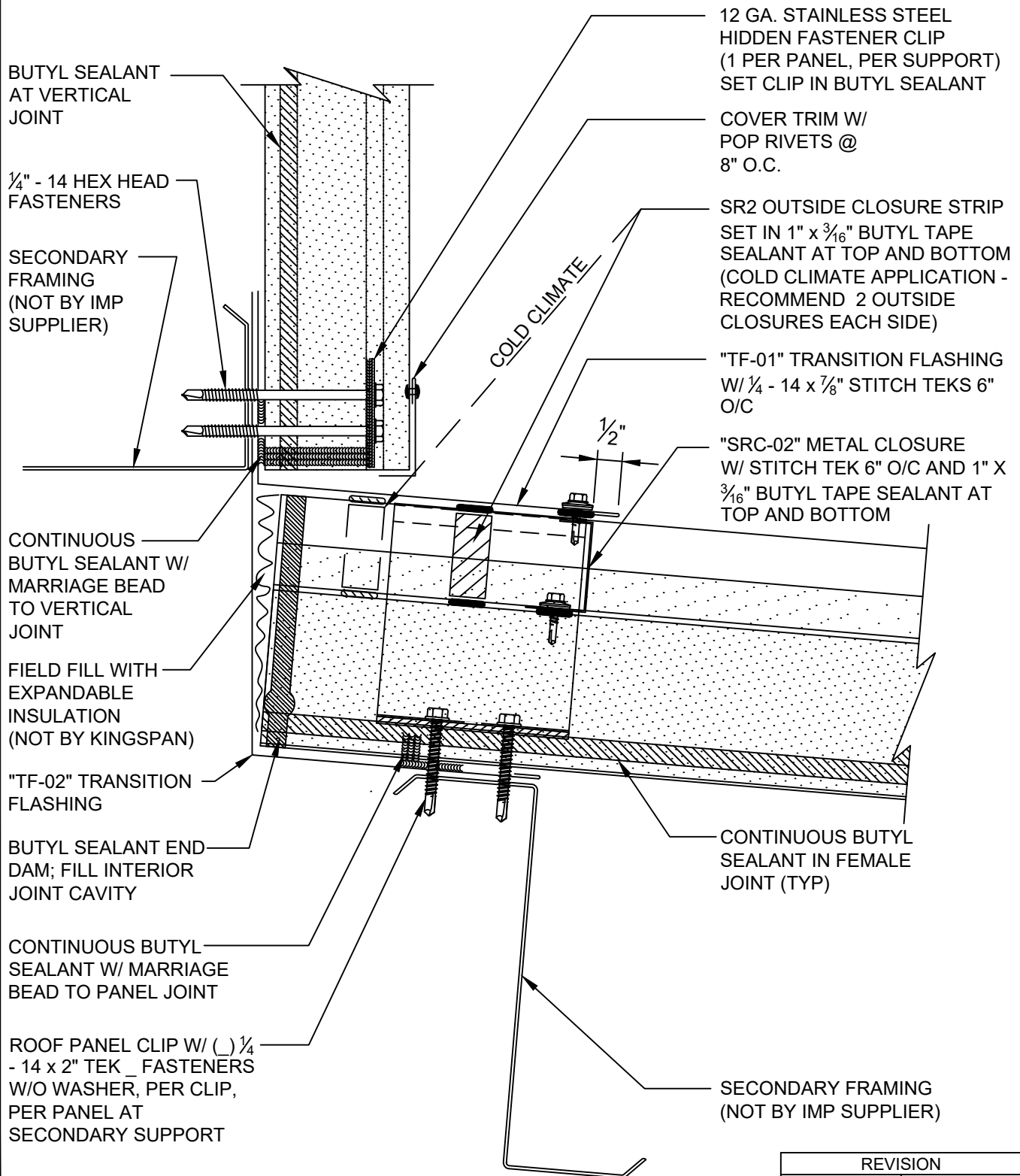
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KINGSEAM ROOF PANEL



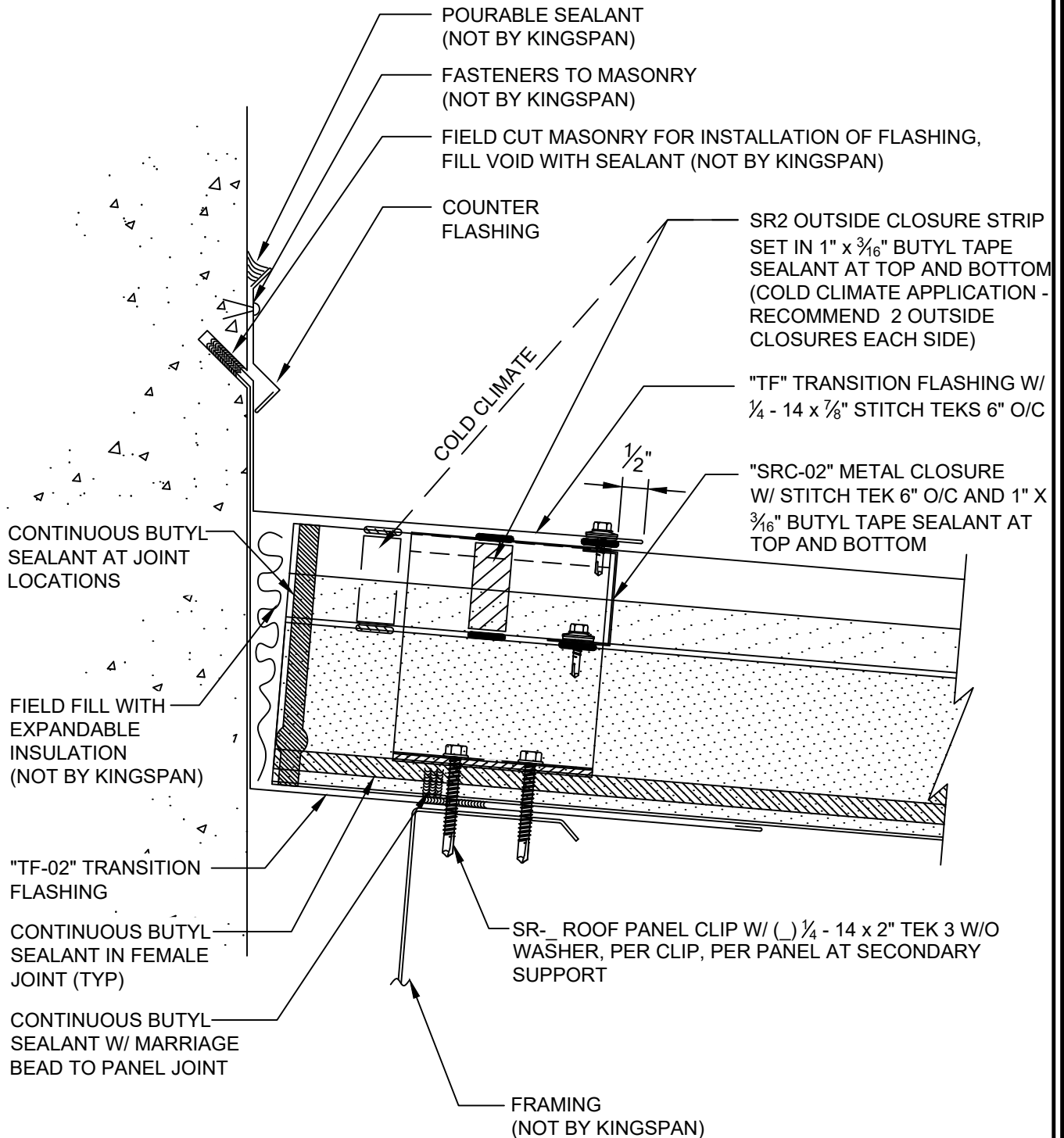
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WALL TO ROOF
HIGH EAVE

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KINGSEAM ROOF PANEL



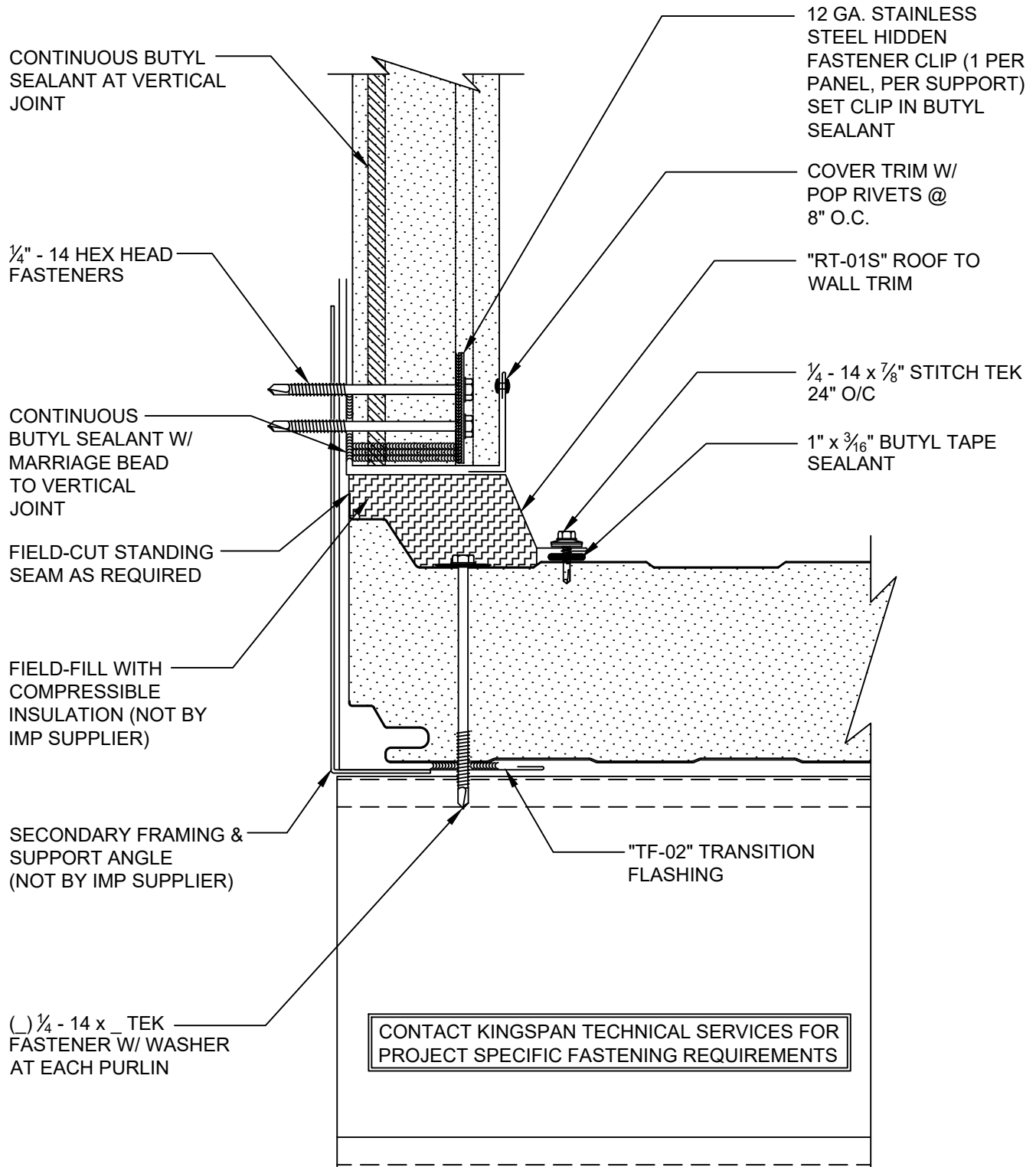
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MASONRY WALL
TO HIGH EAVE

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WALL TO RAKE

DETAIL #: CI-WR-03-KINGSEAM

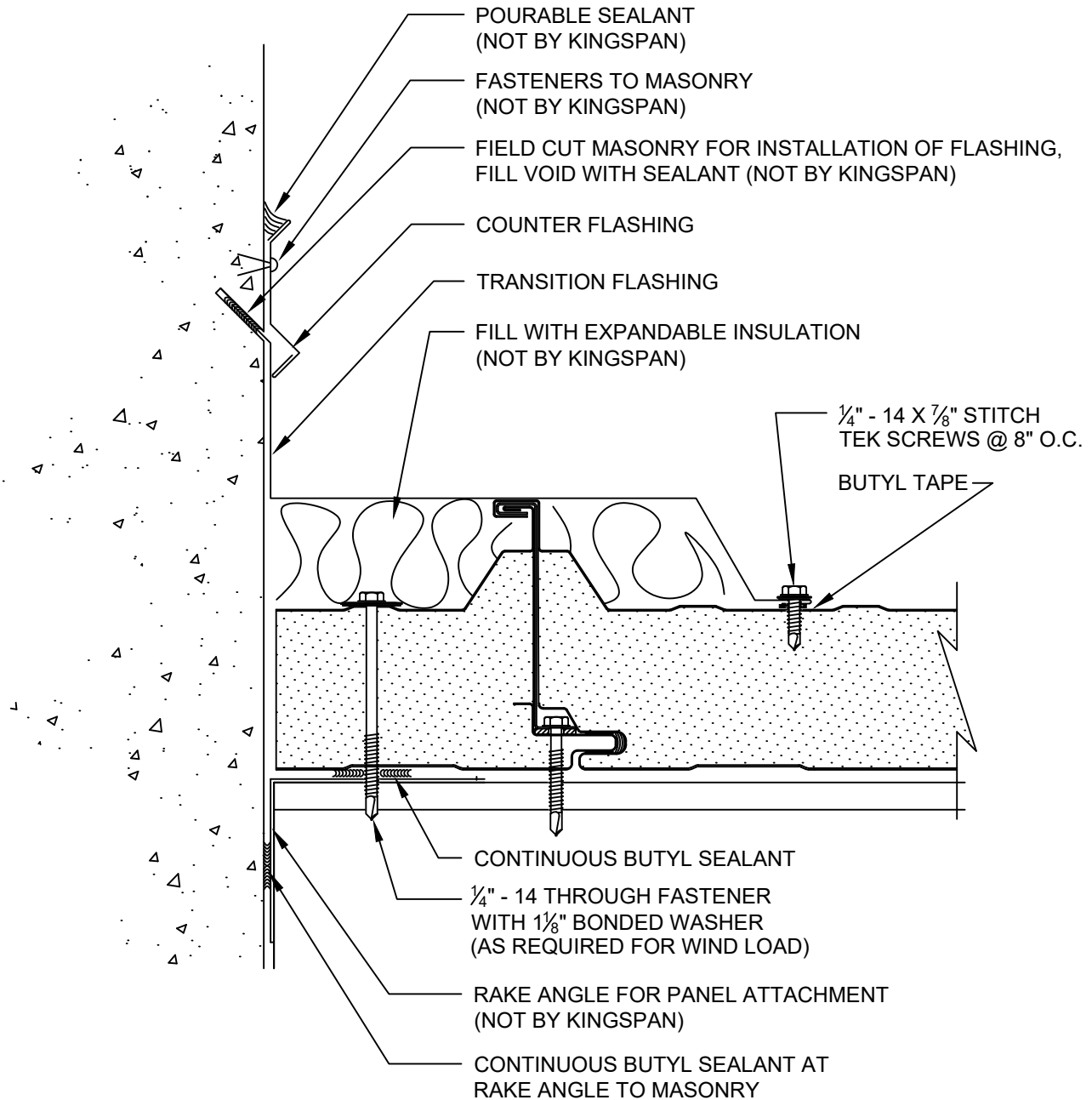
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KINGSEAM ROOF PANEL



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MASONRY WALL TO
RAKE TRANSITION

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