

KSMF-FR SERIES PANELS - FIRE RATED WALL

VERTICAL PANEL INSTALLATION

REVISION

0	1/01/21

CI-DS-01-KSMF-FR	C & I DISCLAIMER
CI-PP-01-KSMF-FR	PANEL PROFILES
CI-PP-02-KSMF-FR	PANEL PROFILES
CI-MB-01-KSMF-FR	MARRIAGE BEAD ISOMETRIC
CI-PJ-01-KSMF-FR	EXPANDED PANEL JOINT
CI-PJ-02-KSMF-FR	ENGAGED PANEL JOINT
CI-PJ-03-KSMF-FR	INTERMEDIATE SUPPORT
CI-FP-01-KSMF-FR	FASTENING PATTERNS (IF REQUIRED)
CI-BS-01-KSMF-FR	FLUSH BASE AT JOINT
CI-BS-02-KSMF-FR	FLUSH BASE MID PANEL
CI-BS-03-KSMF-FR	OVERHANG WITH BASE SUPPORT AT JOINT
CI-BS-04-KSMF-FR	OVERHANG WITH BASE SUPPORT MID PANEL
CI-OC-01-KSMF-FR	OUTSIDE CORNER WITH PROFILED TRIM
CI-OC-02-KSMF-FR	OUTSIDE CORNER WITH FLAT TRIM
CI-IC-01-KSMF-FR	INSIDE CORNER WITH PROFILED TRIM
CI-IC-02-KSMF-FR	INSIDE CORNER WITH FLAT TRIM
CI-IP-01-KSMF-FR	INTERIOR PARTITION - BASE
CI-IP-02-KSMF-FR	FIRE-RATED INTERIOR PARTITION TO ROOF
CI-IP-03-KSMF-FR	FIRE-RATED INTERIOR PARTITION ENDWALL
CI-FO-01-KSMF-FR	F.O. HEAD WITH DRIP EDGE AT JOINT
CI-FO-02-KSMF-FR	F.O. HEAD WITH DRIP EDGE MID PANEL
CI-FO-03-KSMF-FR	F.O. TWO PIECE JAMB
CI-FO-04-KSMF-FR	F.O. ONE PIECE JAMB
CI-FO-05-KSMF-FR	F.O. ONE PIECE SILL AT JOINT
CI-FO-06-KSMF-FR	F.O. ONE PIECE SILL MID PANEL

INDEX SHEET
VERTICAL PANEL
INSTALLATION

DETAIL #: XX-XX-XX-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

VERTICAL PANEL INSTALLATION

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CI-FO-07-KSMF-FR	F.O. INTERIOR PARTITION
CI-FO-07-KSMF-FR	O.H. DOOR TWO PIECE HEAD
CI-FO-08-KSMF-FR	O.H. DOOR HEAD WITH DRIP AT JOINT
CI-FO-09-KSMF-FR	O.H. DOOR HEAD WITH DRIP AT MID PANEL
CI-FO-10-KSMF-FR	O.H. DOOR TWO PIECE JAMB
CI-FO-11-KSMF-FR	LOUVER HEAD AT JOINT
CI-FO-12-KSMF-FR	LOUVER HEAD AT MID PANEL
CI-FO-13-KSMF-FR	LOUVER JAMB
CI-FO-14-KSMF-FR	LOUVER SILL AT JOINT
CI-FO-15-KSMF-FR	LOUVER SILL MID PANEL
CI-SJ-01-KSMF-FR	FIRE RATED STACK JOINT AT JOINT
CI-SJ-02-KSMF-FR	FIRE RATED STACK JOINT MID PANEL
CI-PR-02-KSMF-FR	PARAPET WITH FLUSH TRIM AT JOINT
CI-PR-02-KSMF-FR	PARAPET WITH FLUSH TRIM MID PANEL
CI-PR-03-KSMF-FR	PARAPET WITH PROFILED TRIM AT JOINT
CI-PR-04-KSMF-FR	PARAPET WITH PROFILED TRIM MID PANEL
CI-TL-01-KSMF-FR	TRIM END LAP
CI-TL-02-KSMF-FR	TRIM END LAP WITH HEM
CI-TL-03-KSMF-FR	TRIM END LAP WITH LAP STRIP
CI-TL-04-KSMF-FR	TRIM LAP AT F.O.
CI-PN-01-KSMF-FR	WALL PENETRATION
CI-PN-02-KSMF-FR	STRUCTURAL MEMBER PENETRATION
CI-PN-03-KSMF-FR	I-BEAM PENETRATION ELEVATION
CI-PN-04-KSMF-FR	I-BEAM PENETRATION SECTION

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VERTICAL PANEL
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KSMF SERIES PANELS - FIRE RATED WALL

DISCLAIMER:

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

DUE TO THE FIBROUS NATURE OF MINERAL WOOL, ALL DETAILS ARE SHOWN WITH SEALANT IN BOTH JOINTS.

FIRE PROTECTION OF STRUCTURAL SUPPORTS MAY BE REQUIRED (NOT BY KINGSPAN)

PLEASE CONSULT WITH KINGSPAN TECHNICAL SERVICES FOR ADDITIONAL DESIGN AND INSTALLATION RECOMMENDATIONS WHEN USING MINERAL WOOL CORE PANELS IN COLD STORAGE APPLICATIONS.

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COMMERCIAL/INDUSTRIAL
DISCLAIMER

DETAIL #: CI-DS-01-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL

CORE DEPTHS:
4" (1-HOUR), 6" (2-HOUR),
8" (3-HOUR)

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

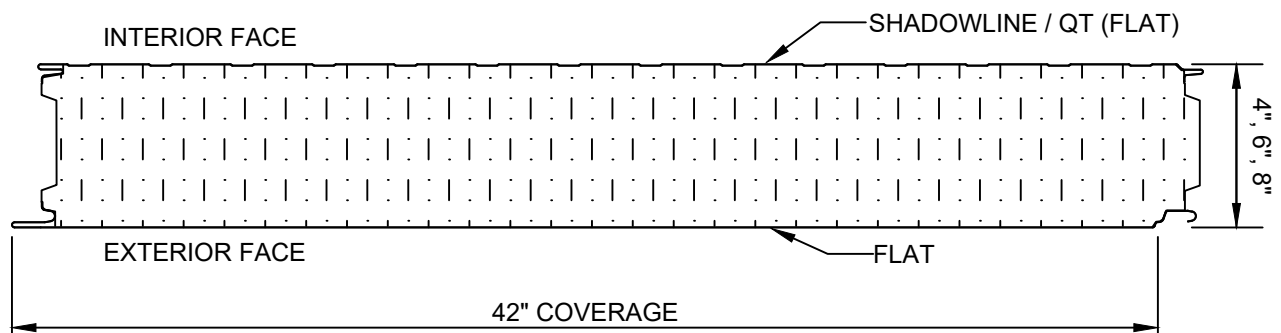
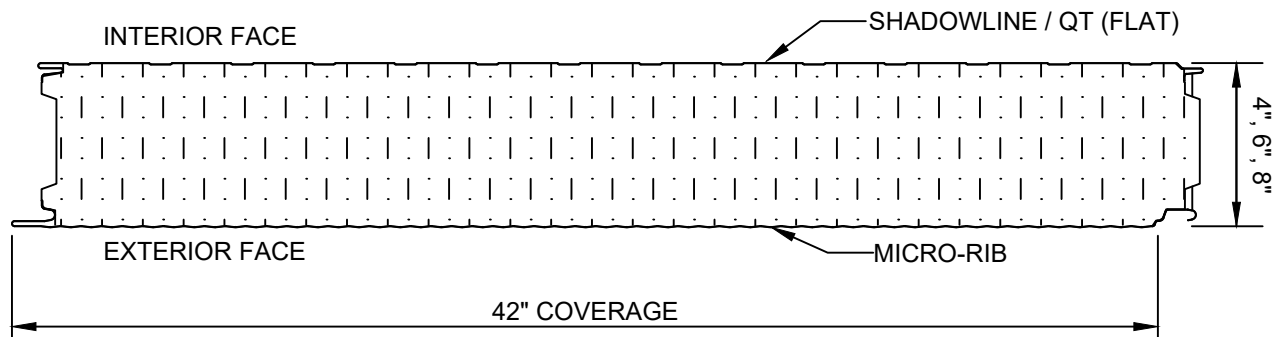
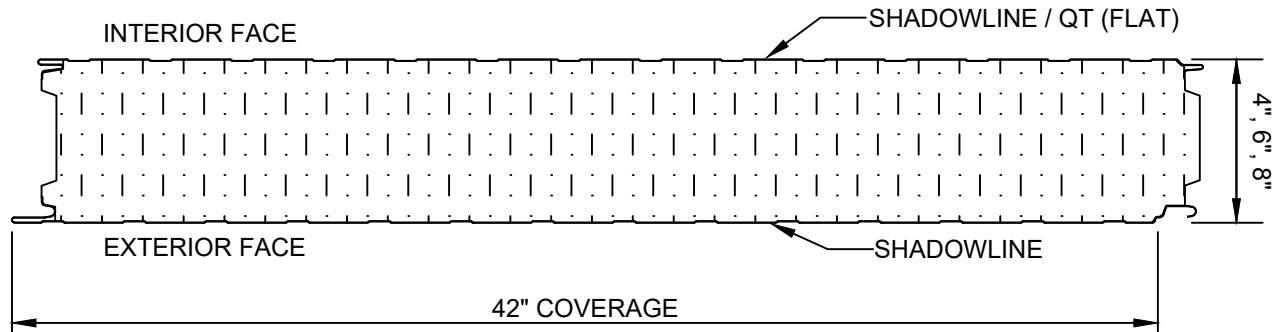
MODULE WIDTH: 42"

PANEL ORIENTATION:
VERTICAL / HORIZONTAL

REVEAL OPTIONS: N/A

EMBOSSING:
EXTERIOR: STUCCO / SMOOTH
INTERIOR: STUCCO / SMOOTH /
QT (FLAT PERFORATED)

LENGTHS:
MINIMUM: 8'-0"
MAXIMUM: 48'-0" (4" and 6")
40'-0" (8")



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PANEL PROFILES

DETAIL #: CI-PP-01-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL

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4" (1-HOUR), 6" (2-HOUR),
8" (3-HOUR)

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EXTERIOR: 24, 22
INTERIOR: 26, 24, 22

MODULE WIDTH: 42"

PANEL ORIENTATION:

VERTICAL / HORIZONTAL

REVEAL OPTIONS: N/A

EMBOSSING:

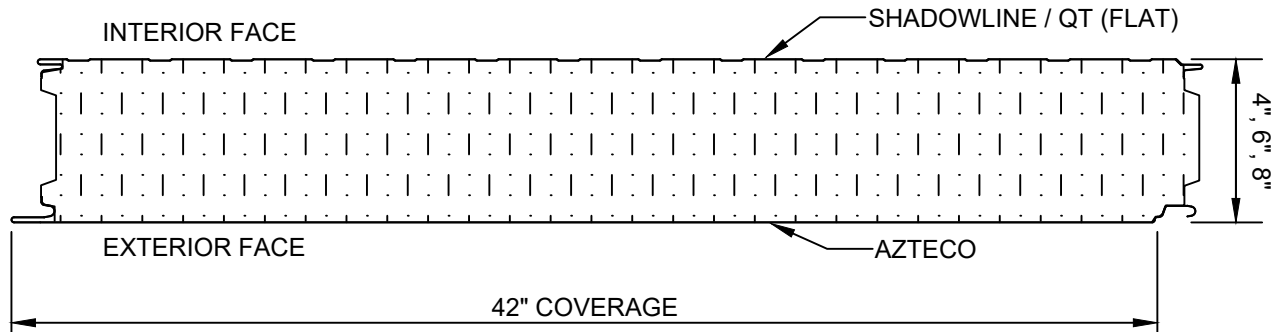
EXTERIOR: STUCCO / SMOOTH

INTERIOR: STUCCO / SMOOTH /
QT (PERFORATED)

LENGTHS:

MINIMUM: 8'-0"

MAXIMUM: 48'-0" (4" and 6")
40'-0" (8")



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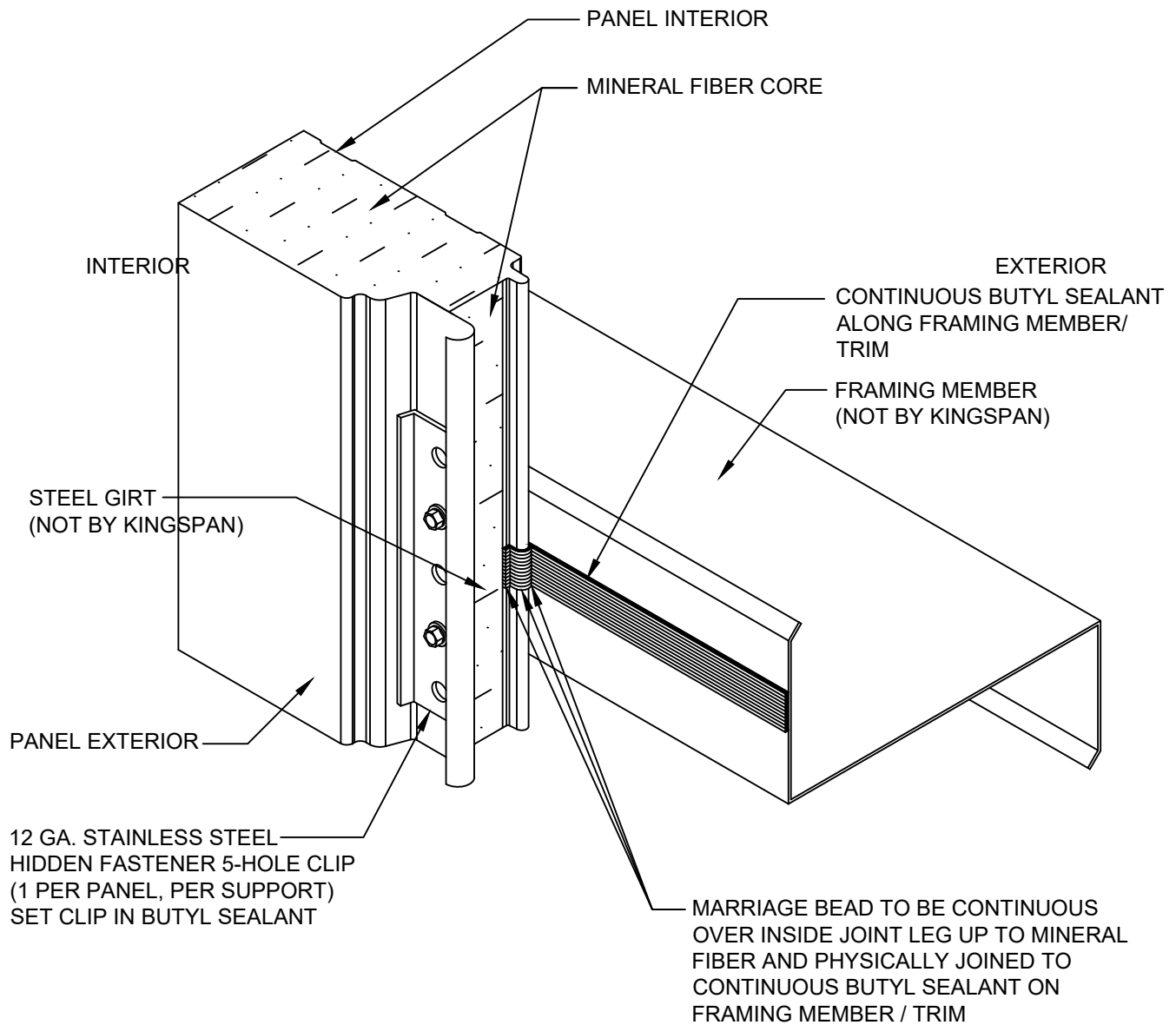
PANEL PROFILES

DETAIL #: CI-PP-02-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



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0	01/01/21

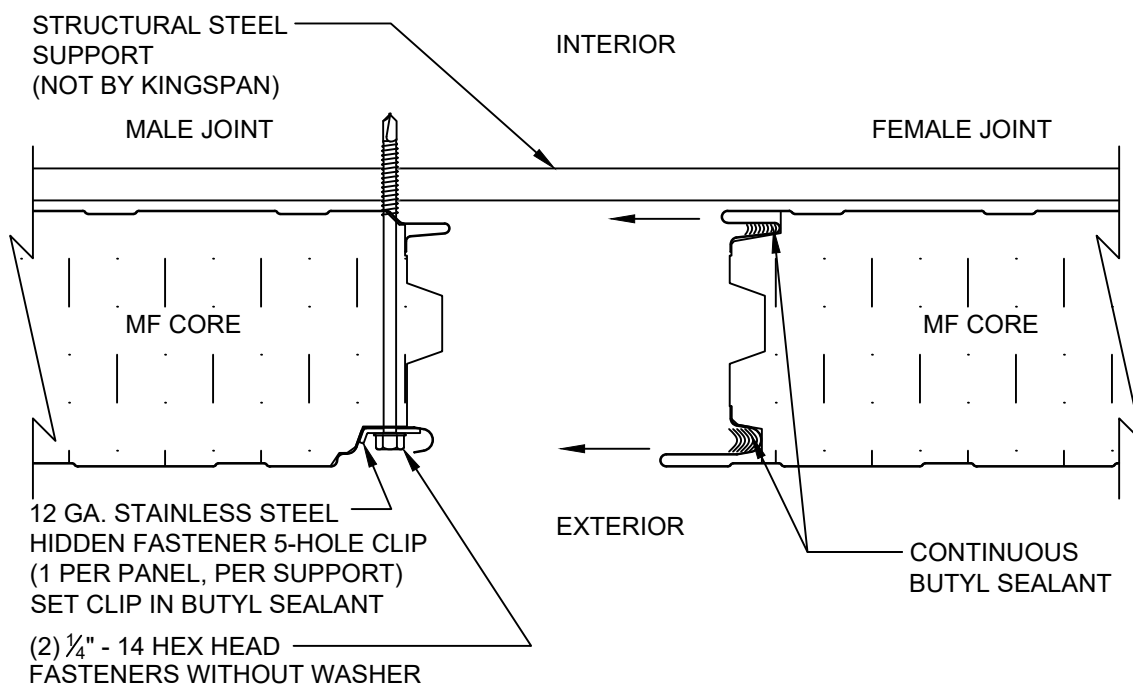
MARRIAGE BEAD

DETAIL #: CI-MB-01-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL



WALL PANEL INSTALLATION DIRECTION →

NOTES:

- 1) USE BUTYL SEALANT ONLY FOR ALL EXTERIOR PANEL APPLICATIONS
- 2) ADDITIONAL THROUGH PANEL FASTENERS MAY BE REQUIRED, CONSULT KINGSPAN ENGINEERING FOR PANEL FASTENING PATTERN
- 3) REFER TO INTERTEK / WH LISTING DESIGN NO. KIP-CWP & KIP/PV 120-01 FOR WALL SYSTEM AND TO KIP/MRP 60-1 FOR CEILING SYSTEM

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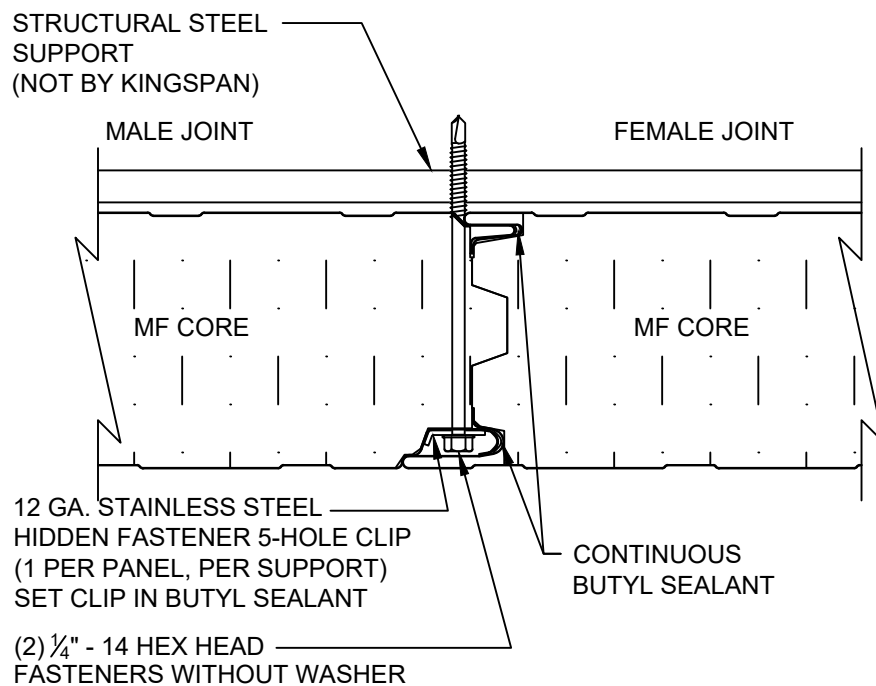
KSMF-FR EXPANDED
PANEL JOINT

DETAIL #: CI-PJ-01-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



WALL PANEL INSTALLATION DIRECTION →
SEE INSTALLATION NOTES ON EXPANDED JOINT DETAIL

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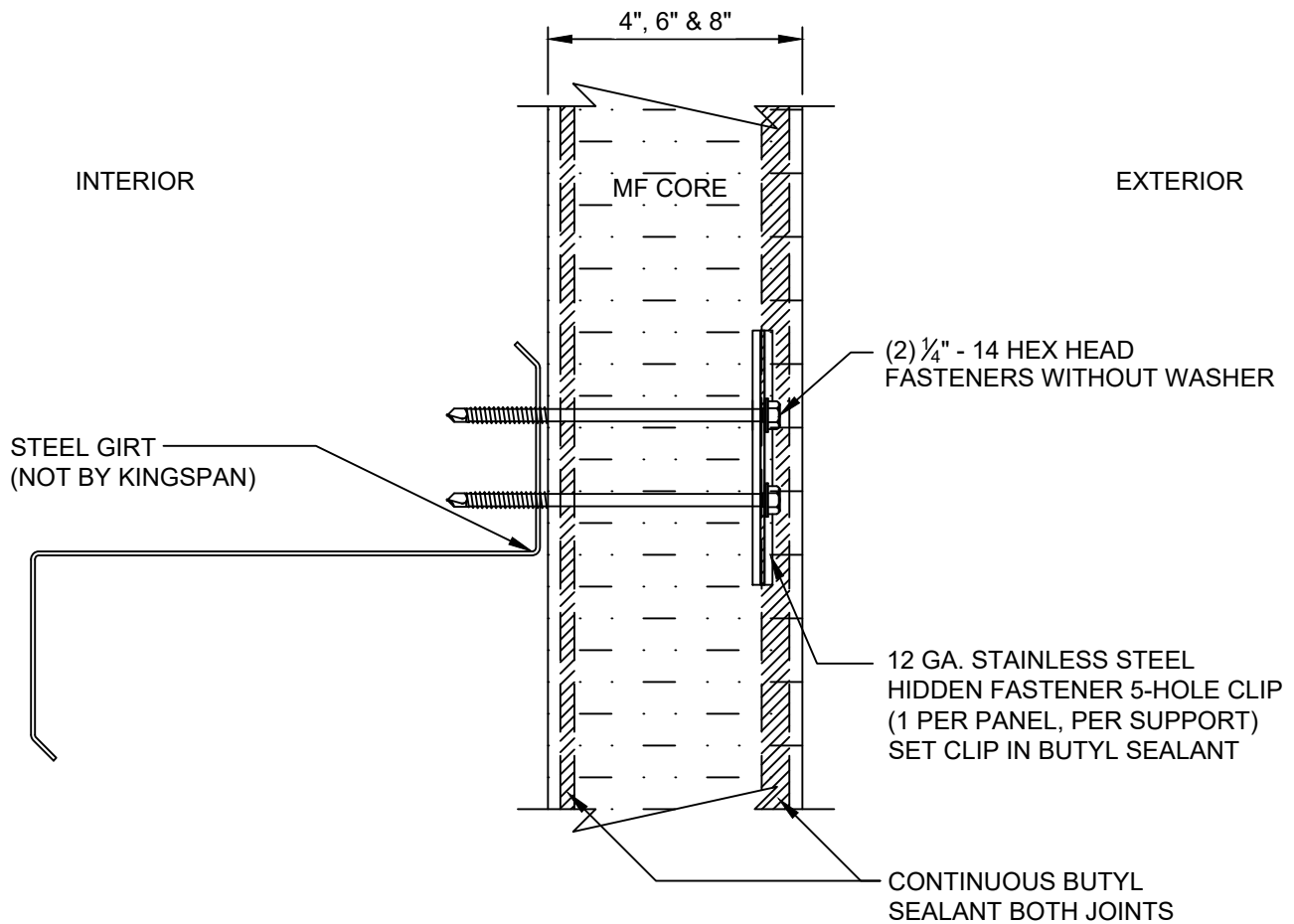
KSMF-FR ENGAGED
PANEL JOINT

DETAIL #: CI-PJ-02-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



ADDITIONAL THROUGH PANEL
FASTENERS MAY BE REQUIRED,
CONSULT KINGSPAN ENGINEERING
FOR PANEL FASTENING PATTERN

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INTERMEDIATE
SUPPORT

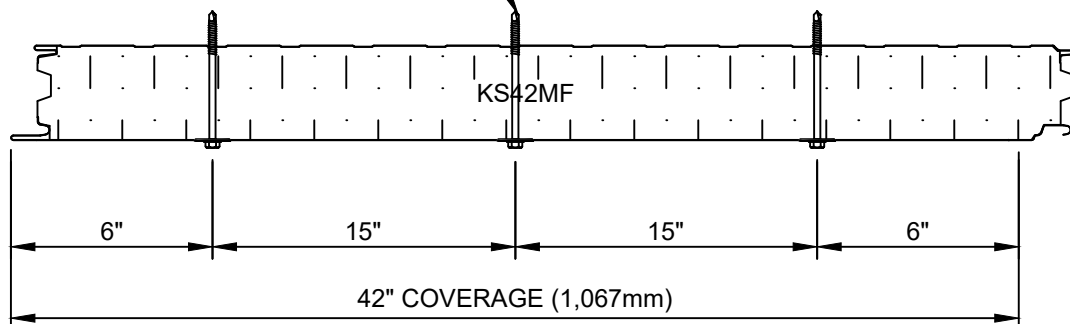
DETAIL #: CI-PJ-03-KSMF-FR

RELEASE: 2021



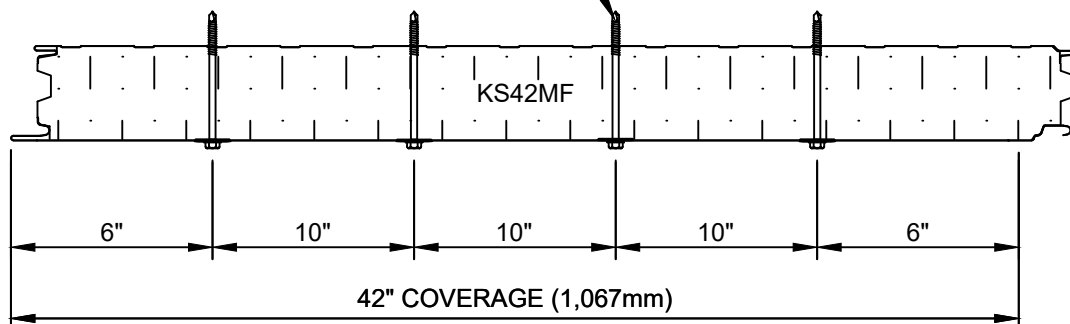
KSMF SERIES PANELS - FIRE RATED WALL

1/4" - 14 HEX HEAD FASTENERS WITH
1 1/8" BONDED WASHER



THROUGH FASTENING REQUIREMENTS (3 - THROUGH FASTENERS)

1/4" - 14 HEX HEAD FASTENERS WITH
1 1/8" BONDED WASHER



THROUGH FASTENING REQUIREMENTS (4 - THROUGH FASTENERS)

NOTES:

- 1) USE BUTYL SEALANT ONLY FOR ALL EXTERIOR PANEL APPLICATIONS
- 2) ADDITIONAL THROUGH PANEL FASTENERS MAY BE REQUIRED, CONSULT KINGSPAN ENGINEERING FOR PANEL FASTENING PATTERN
- 3) REFER TO INTERTEK / WH LISTING DESIGN NO. KIP-CWP & KIP/PV 120-01 FOR WALL SYSTEM AND TO KIP/MRP 60-1 FOR CEILING SYSTEM

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**FASTENING PATTERNS
(IF REQUIRED)**

DETAIL #: CI-FP-01-KSMF-FR

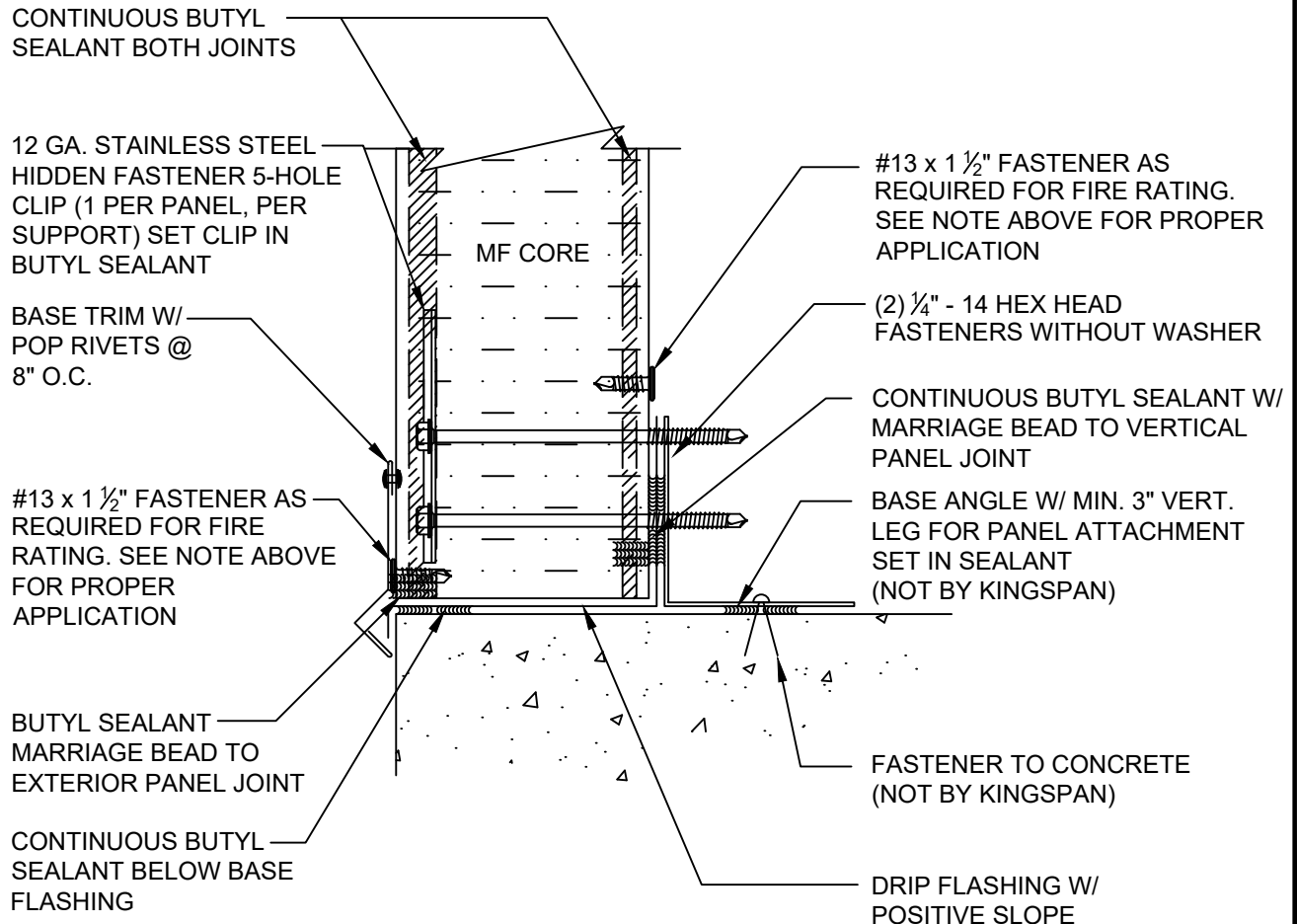
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.



NOTE: SEE DETAIL CI-TL-01-KSMF-FR AND CI-TL-02-KSMF-FR FOR TYPICAL TRIM LAP INSTRUCTIONS

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FLUSH BASE AT JOINT

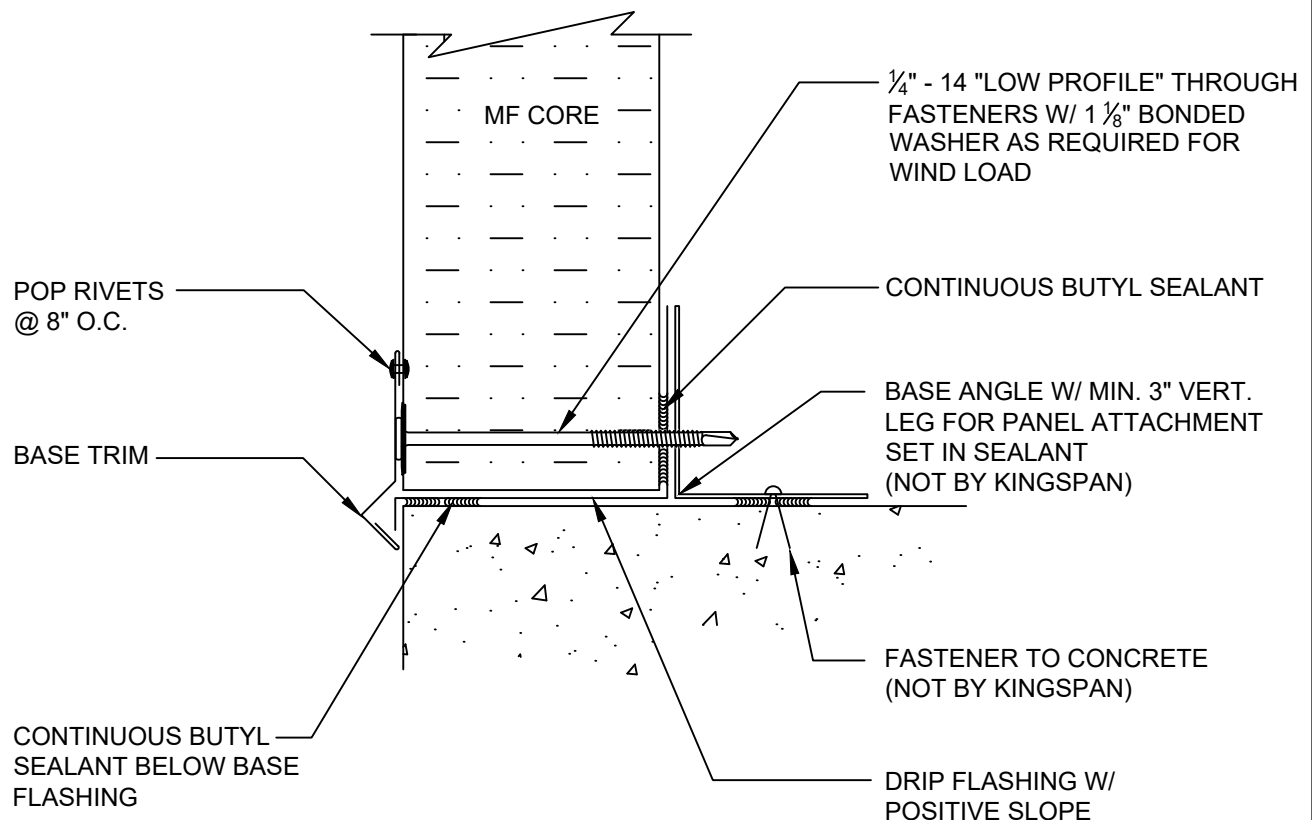
DETAIL #: CI-BS-01-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS



NOTE: SEE DETAIL CI-TL-01-KSMF-FR AND CI-TL-02-KSMF-FR FOR TYPICAL TRIM LAP INSTRUCTIONS

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FLUSH BASE MID PANEL

DETAIL #: CI-BS-02-KSMF-FR

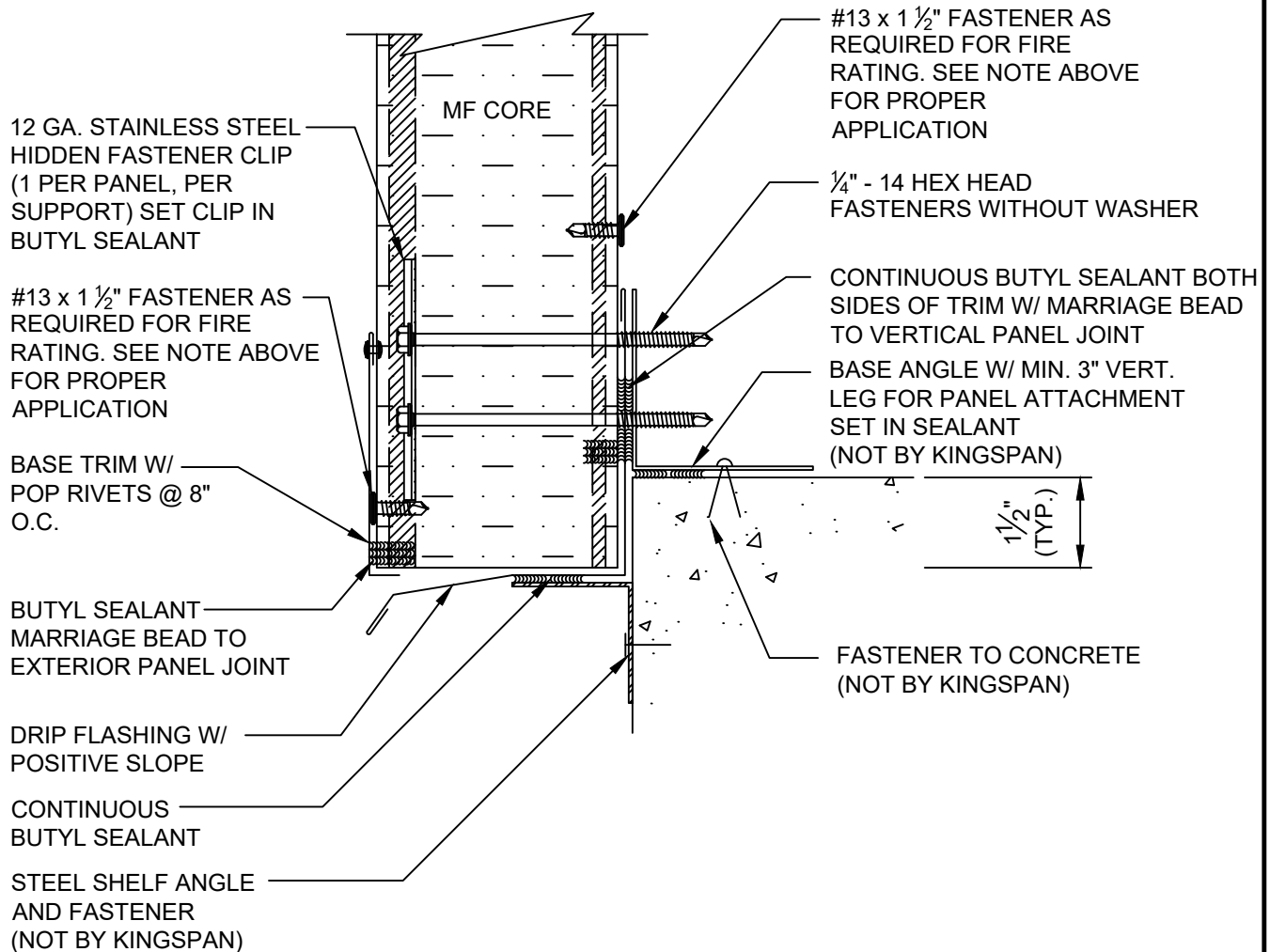
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

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NOTE: SEE DETAIL CI-TL-01-KSMF-FR AND CI-TL-02-KSMF-FR FOR TYPICAL TRIM LAP INSTRUCTIONS

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OVERHANG WITH
BASE SUPPORT AT
JOINT

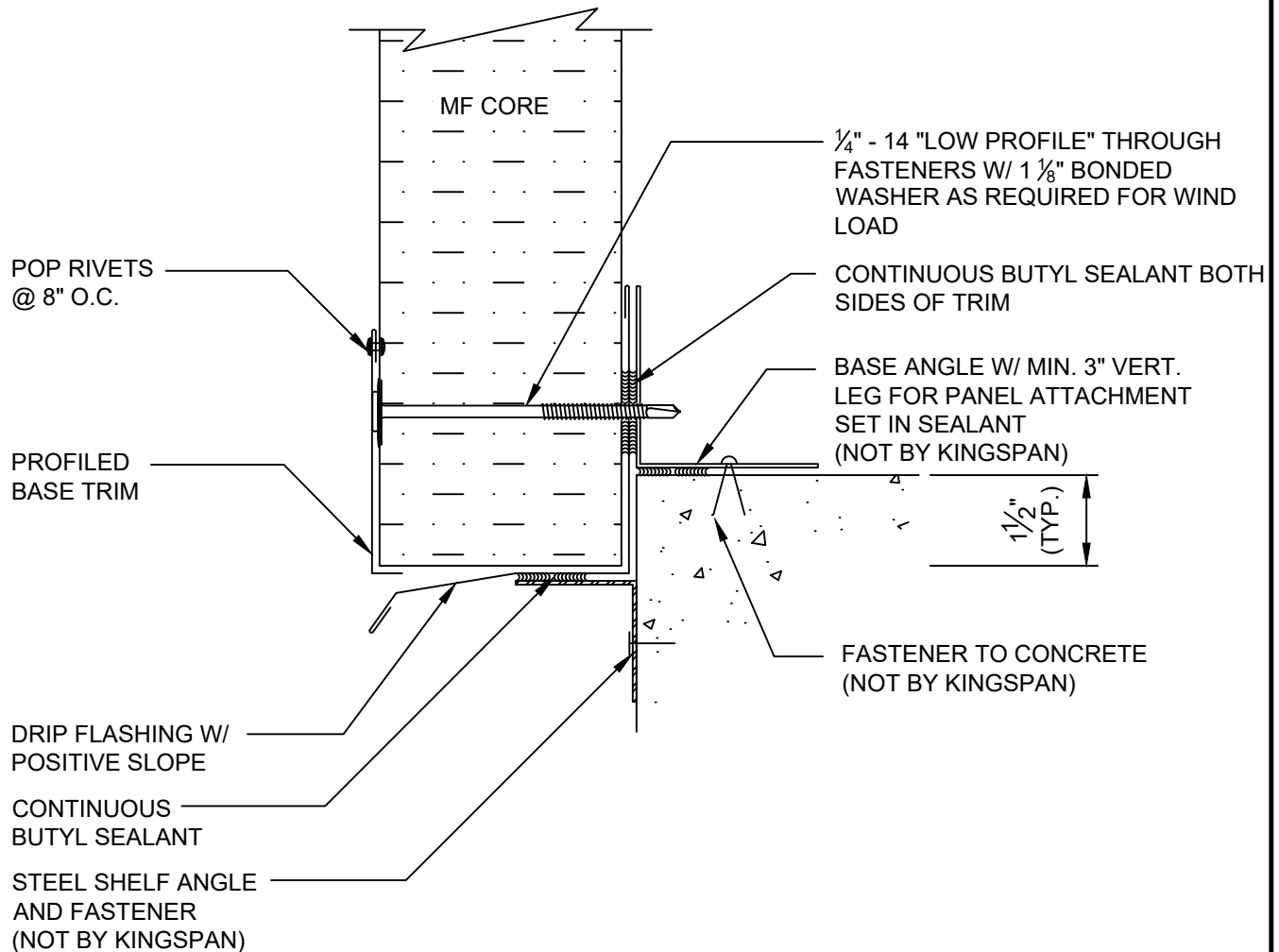
DETAIL #: CI-BS-03-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS



NOTE: SEE DETAIL CI-TL-01-KSMF-FR AND CI-TL-02-KSMF-FR FOR TYPICAL TRIM LAP INSTRUCTIONS

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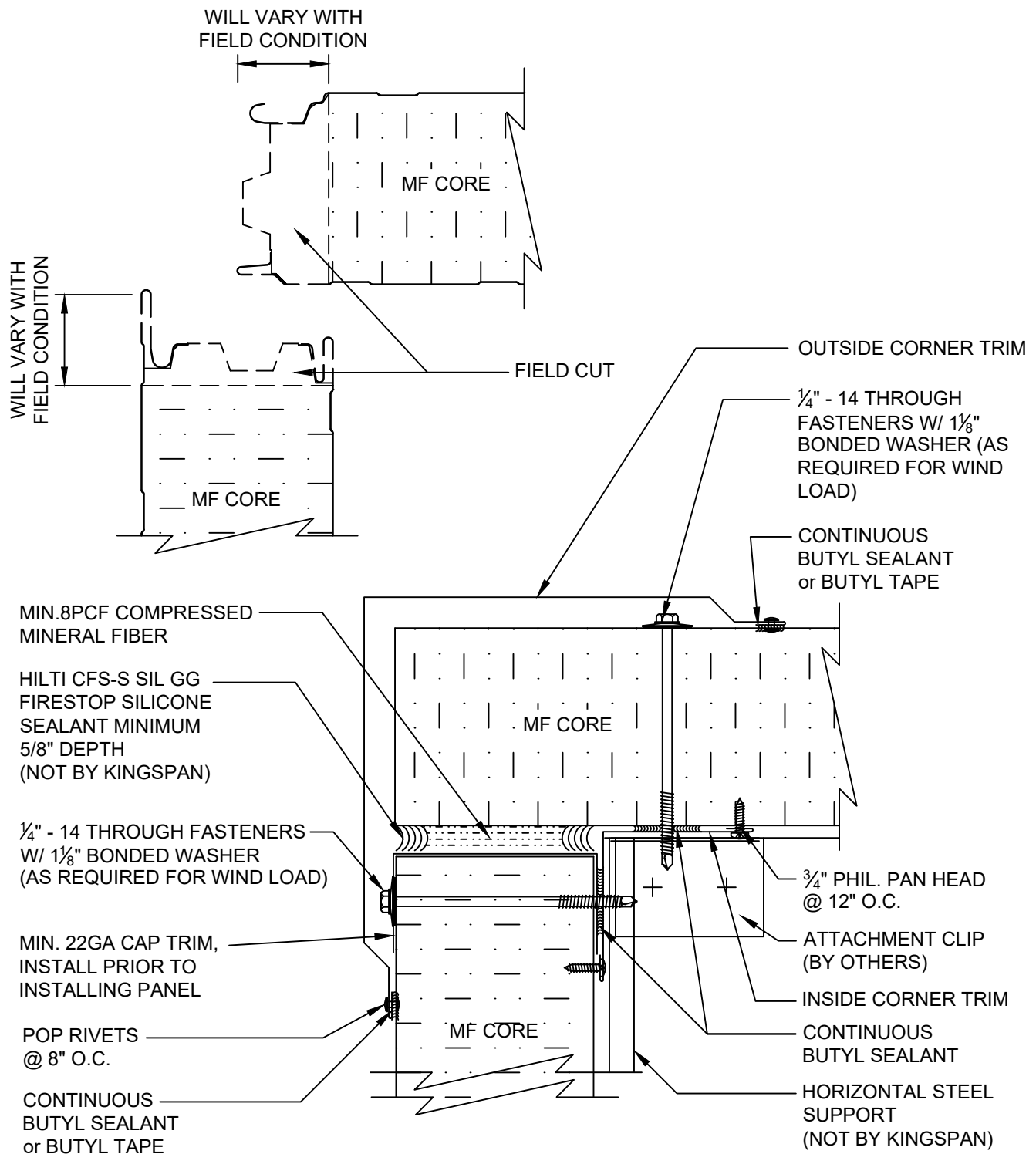
OVERHANG WITH
BASE SUPPORT AT MID
PANEL

DETAIL #: CI-BS-04-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



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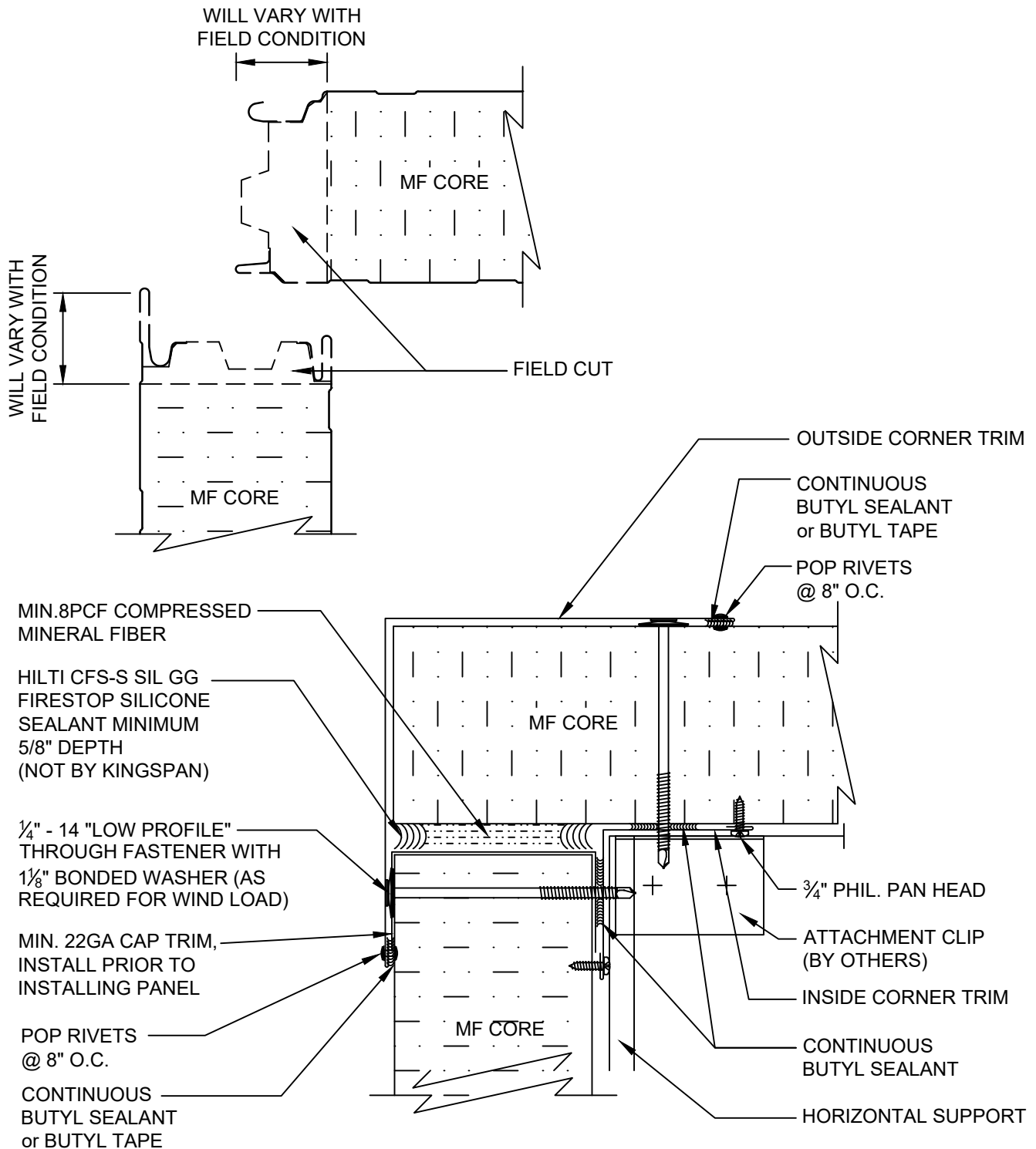
**OUTSIDE CORNER
WITH PROFILED TRIM**

DETAIL #: CI-OC-01-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



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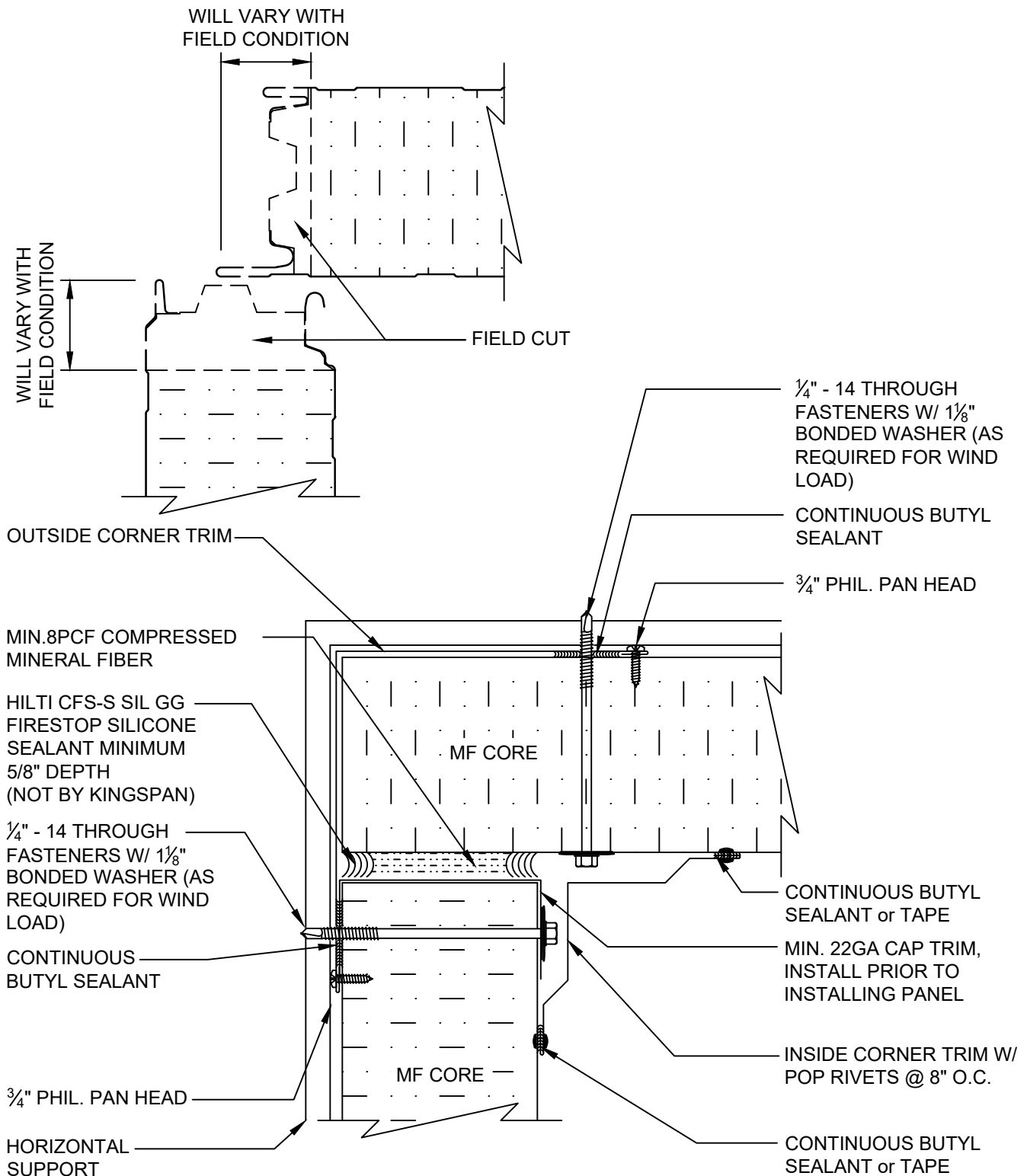
OUTSIDE CORNER
WITH FLAT TRIM

DETAIL #: CI-OC-02-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



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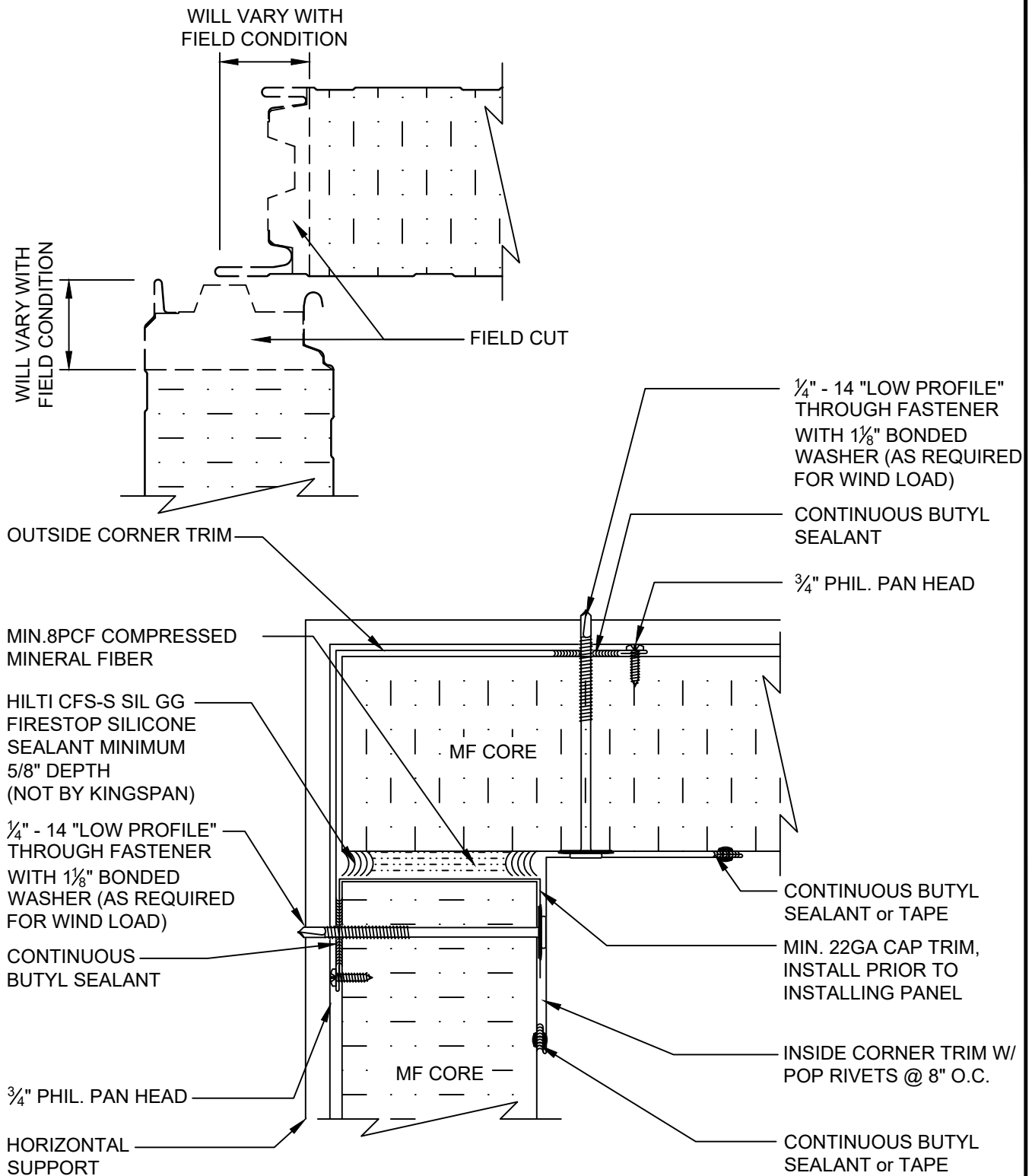
INSIDE CORNER
WITH PROFILED TRIM

DETAIL #: CI-IC-01-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



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INSIDE CORNER WITH FLAT TRIM

DETAIL #: CI-IC-02-KSMF-FR

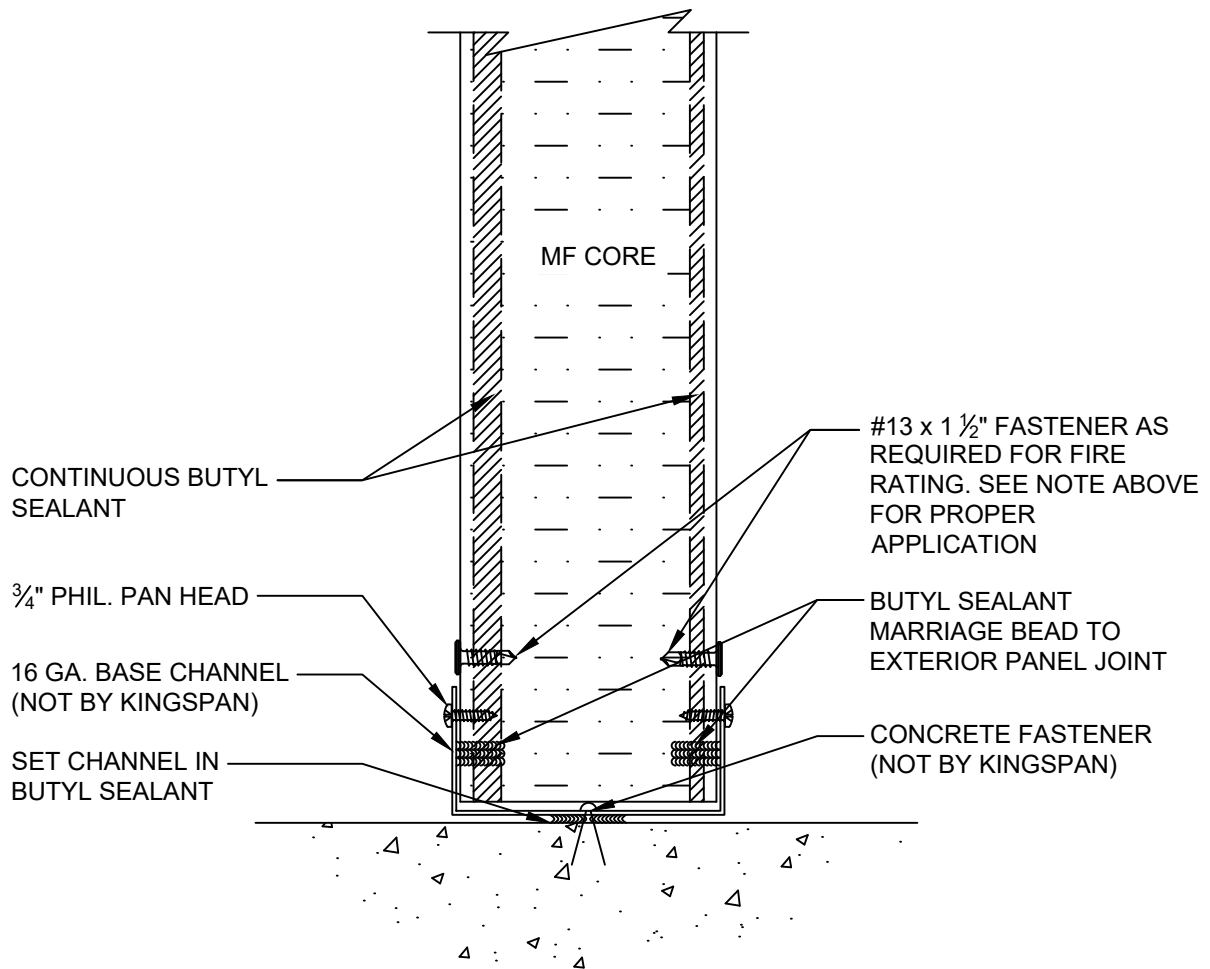
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.



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BASE DETAIL -
PARTITION

DETAIL #: CI-IP-01-KSMF-FR

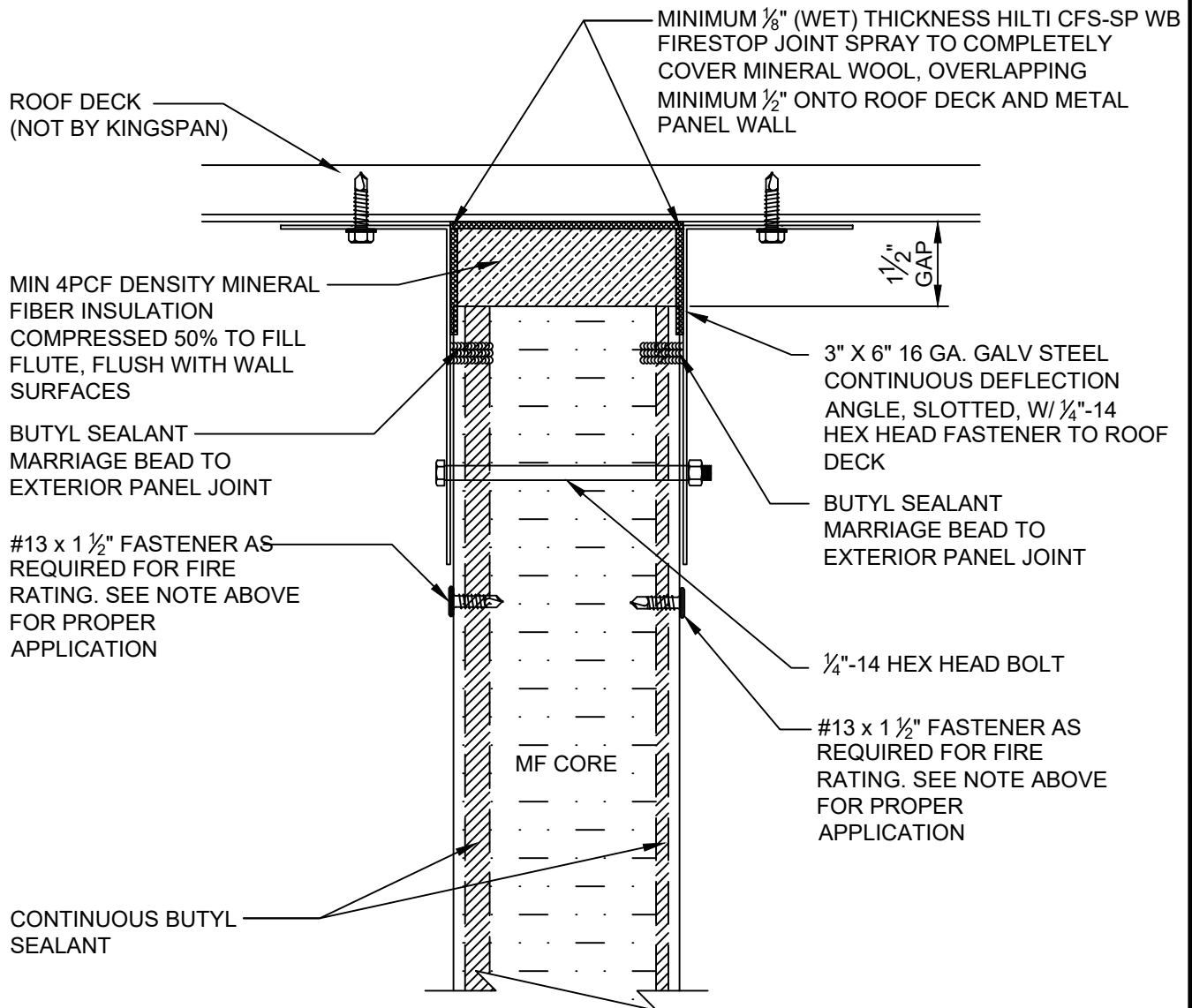
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**FIRE RATED ASSEMBLY
PARTITION TO ROOF**

DETAIL #: CI-IP-02-KSMF-FR

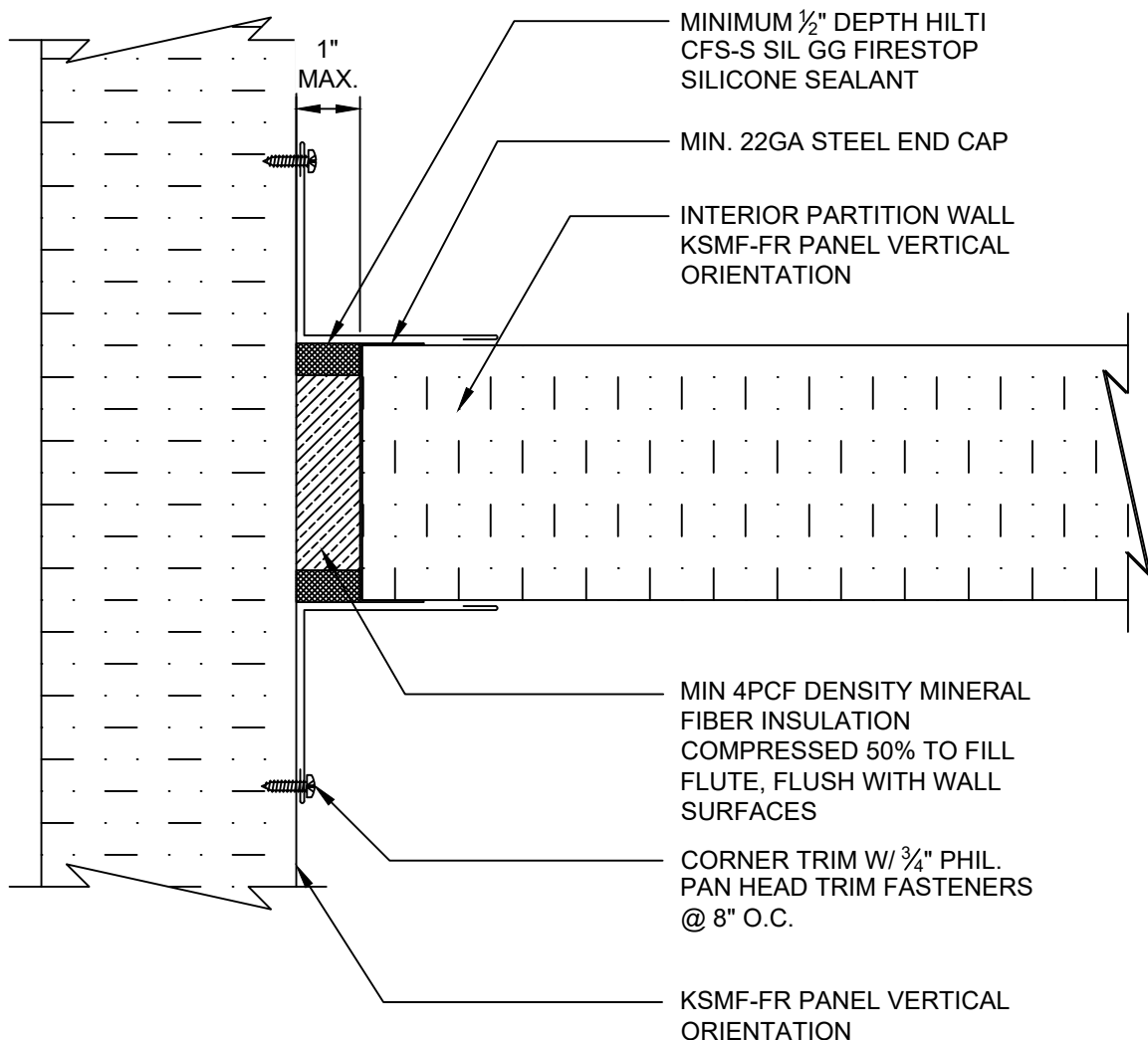
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

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INTERIOR PARTITION
ENDWALL DETAIL

DETAIL #: CI-IP-03-KSMF-FR

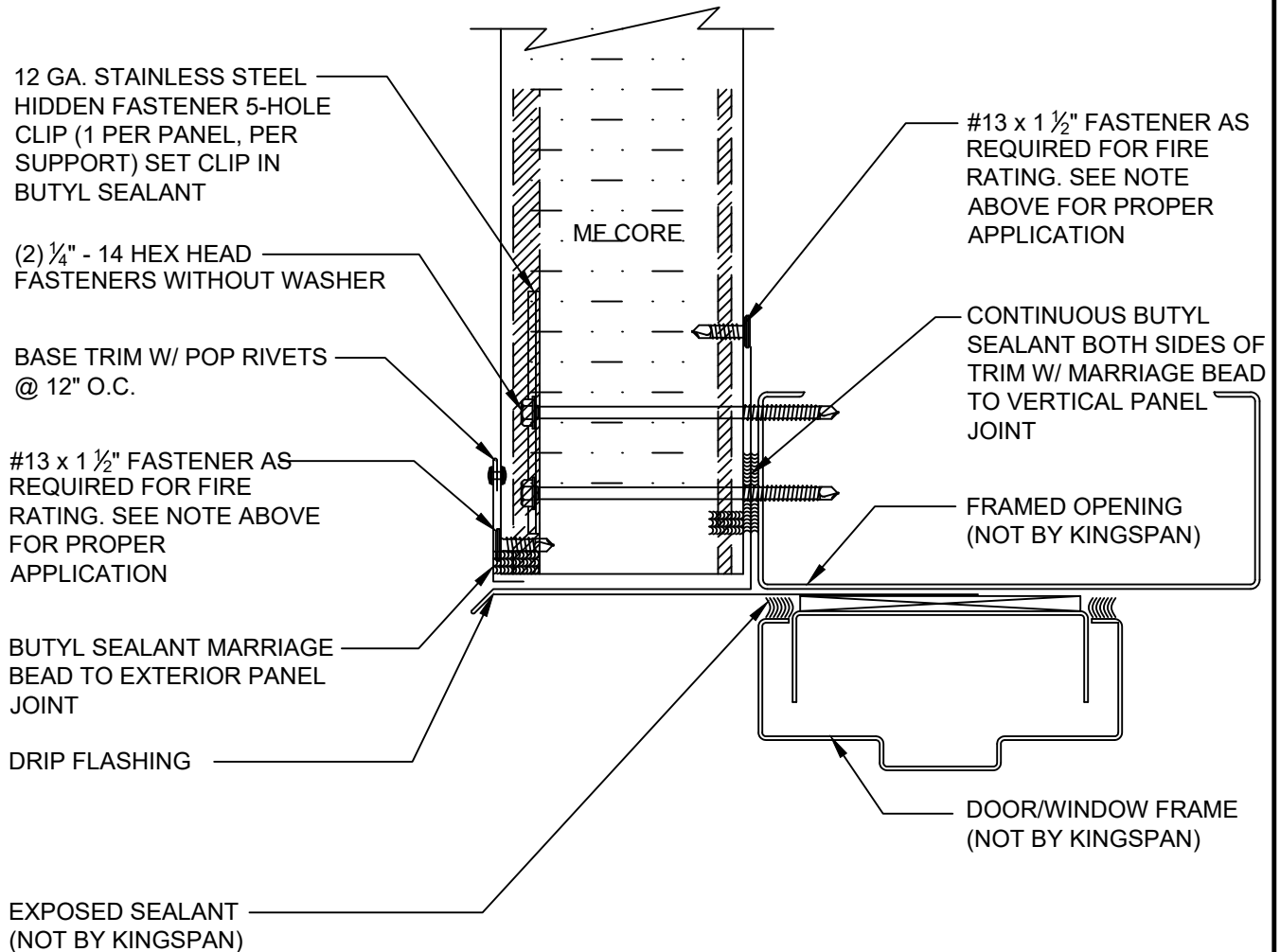
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KSMF SERIES PANELS - FIRE RATED WALL

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NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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**FRAMED OPENING
HEAD W/ DRIP EDGE
AT JOINT**

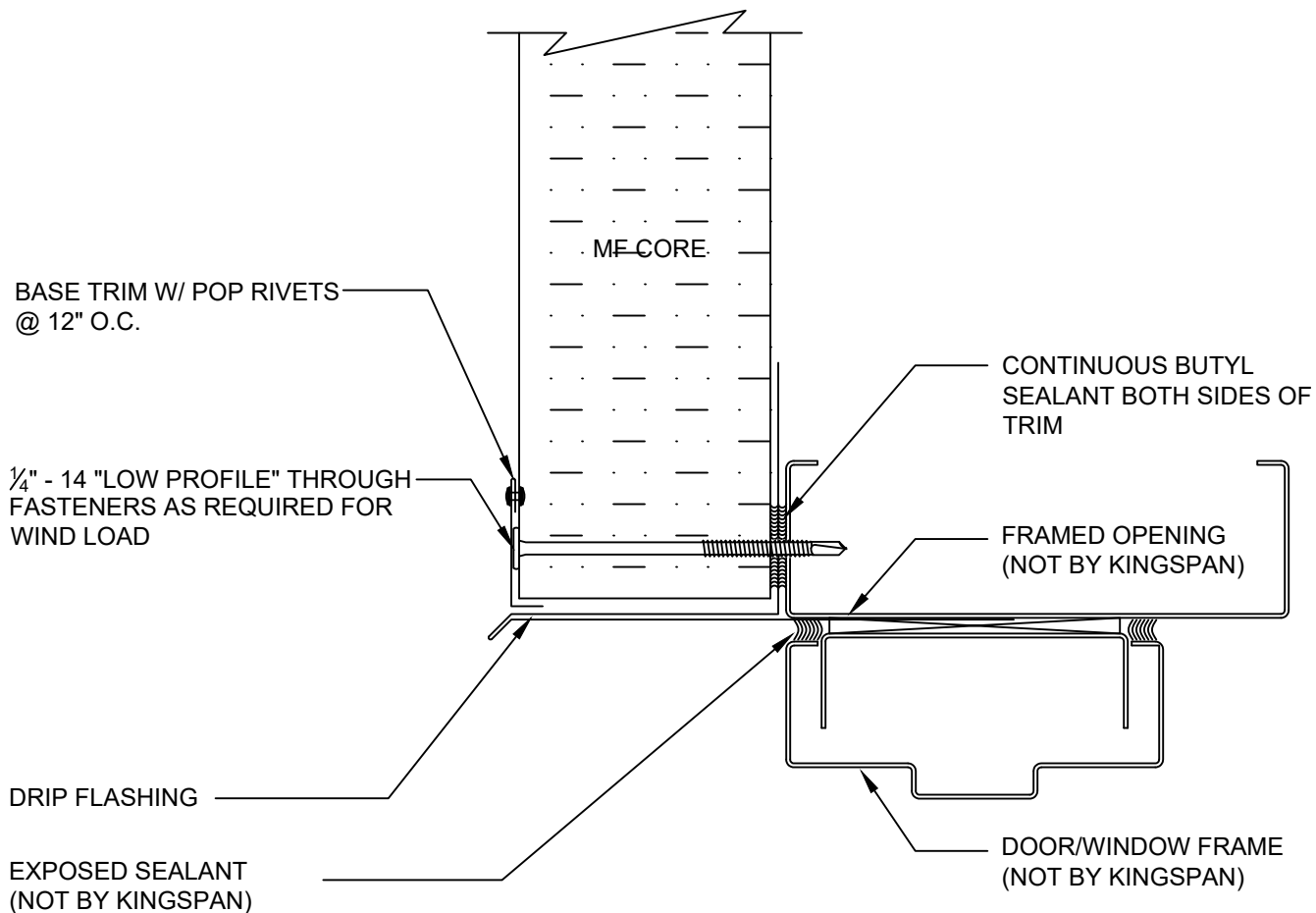
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KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS



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NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
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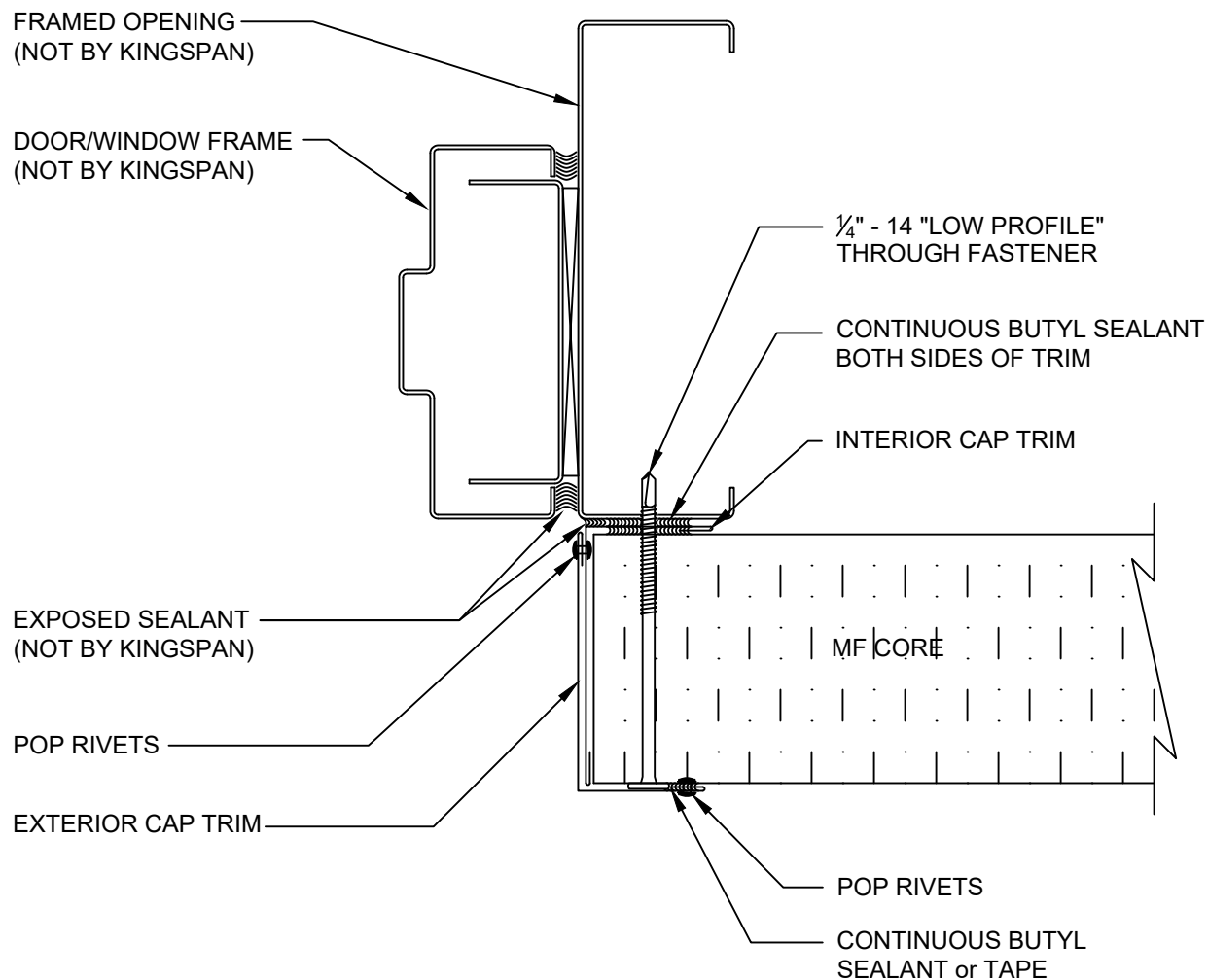
**FRAMED OPENING
HEAD W/ DRIP EDGE
MID PANEL**

DETAIL #: CI-FO-02-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



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NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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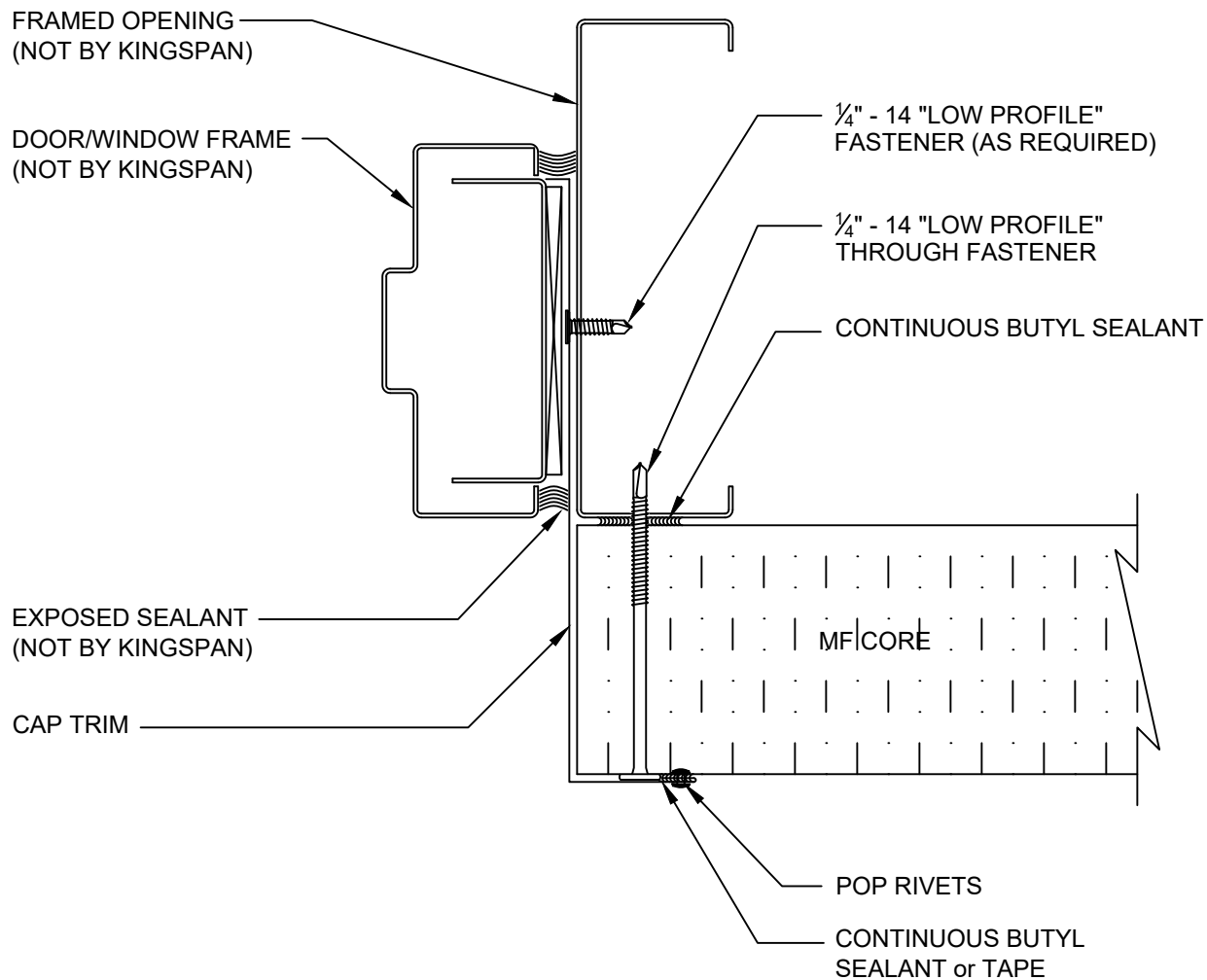
**FRAMED OPENING
TWO PIECE JAMB TRIM**

DETAIL #: CI-FO-03-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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FRAMED OPENING
ONE PIECE JAMB TRIM

DETAIL #: CI-FO-04-KSMF-FR

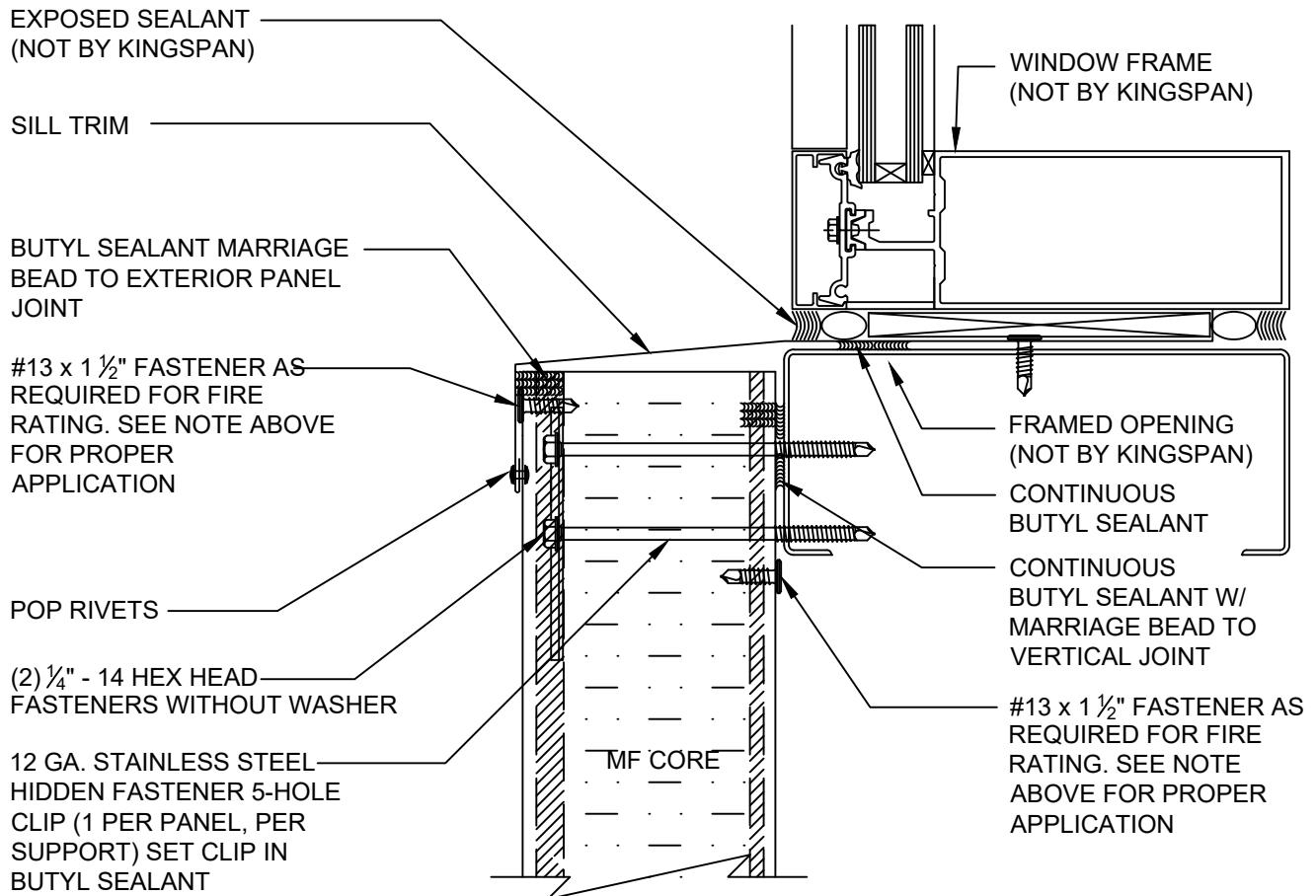
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KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.



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NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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**FRAMED OPENING
ONE PIECE SILL
AT JOINT**

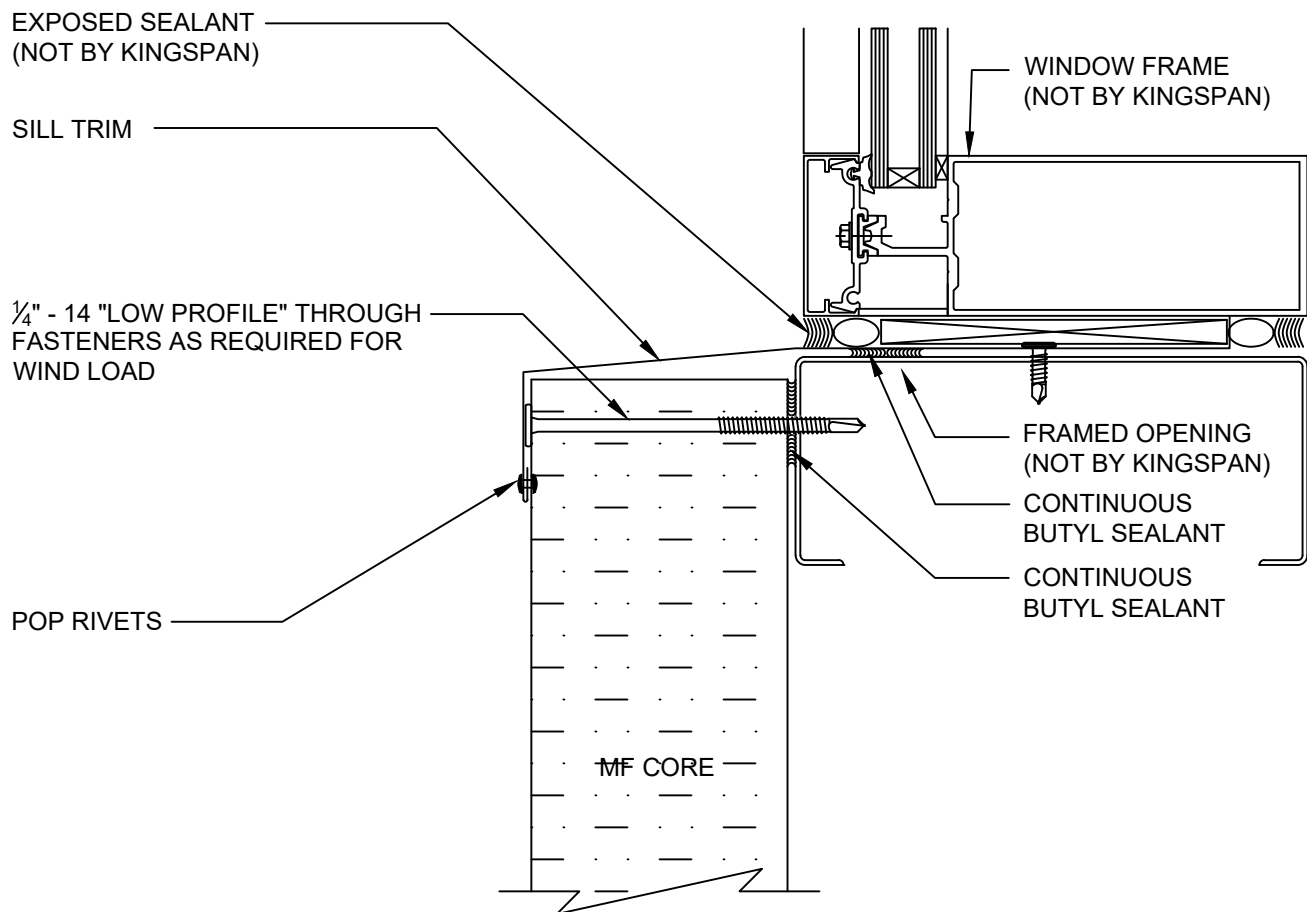
DETAIL #: CI-FO-05-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS



NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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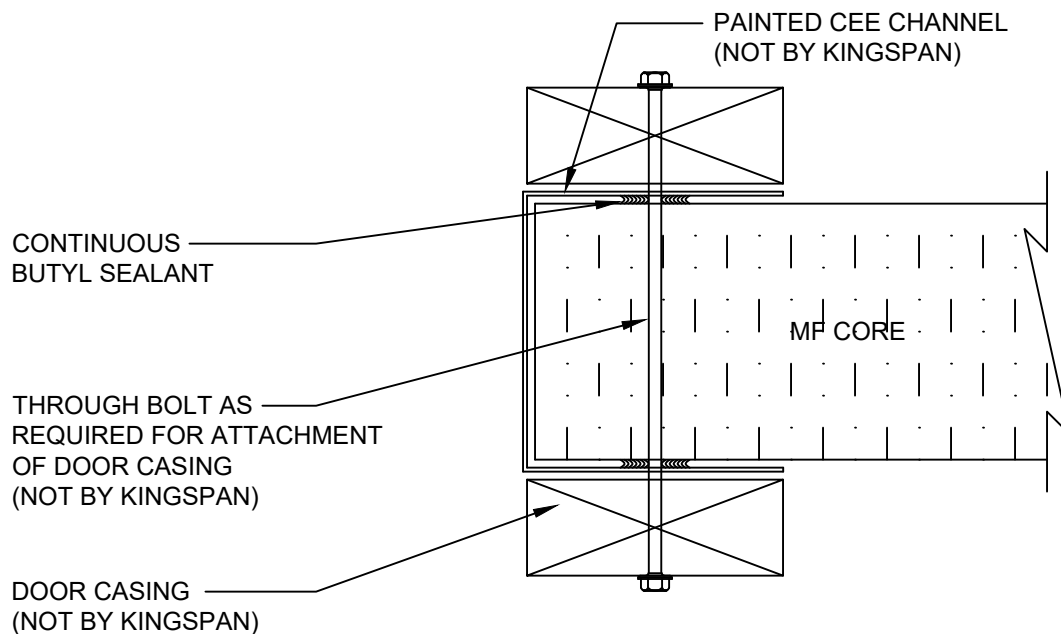
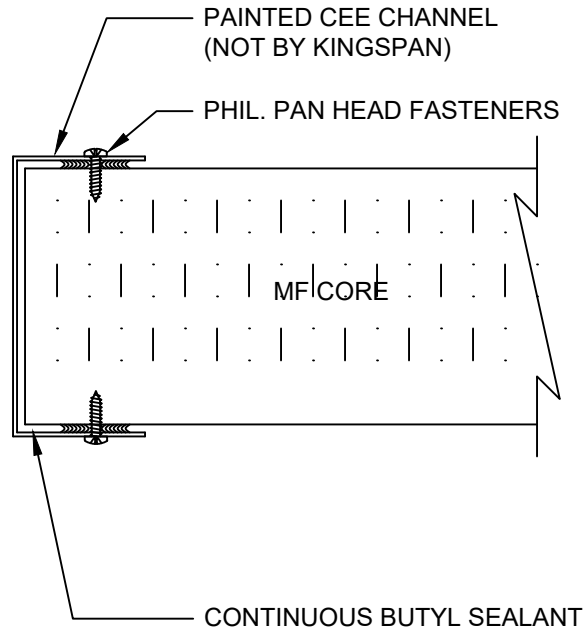
**FRAMED OPENING
ONE PIECE SILL
MID PANEL**

DETAIL #: CI-FO-06-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL



NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

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FRAMED OPENING
INTERIOR PARTITION

DETAIL #: CI-FO-07-KSMF-FR

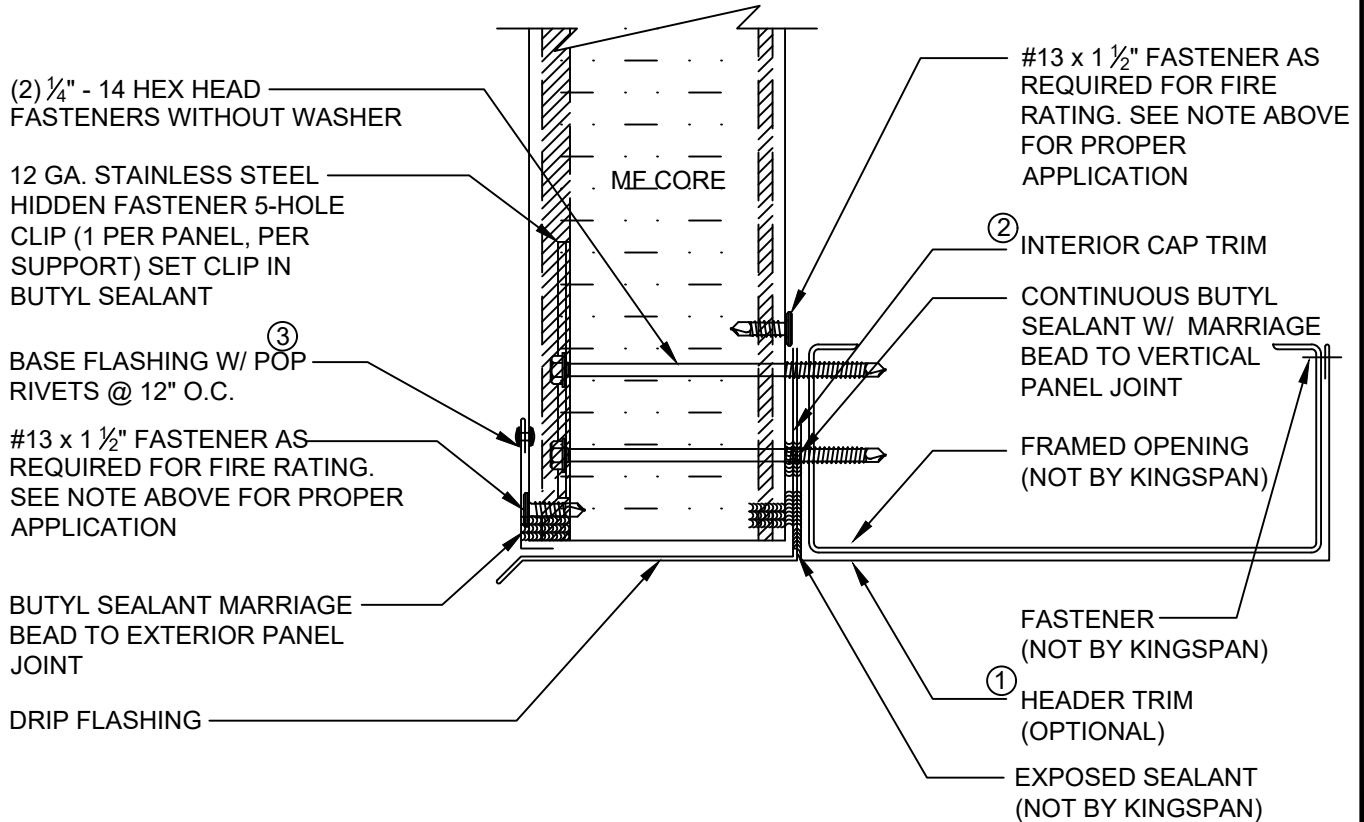
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.



TRIM INSTALLATION SEQUENCE:

- ① HEADER TRIM (OPTIONAL) & ALL APPLICABLE SEALANTS
- ② DRIP FLASHING & ALL APPLICABLE SEALANTS PRIOR TO INSTALLING THE PANEL AND THROUGH FASTENERS
- ③ BASE FLASHING

NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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**OVERHEAD DOOR
HEAD W/ DRIP EDGE
AT JOINT**

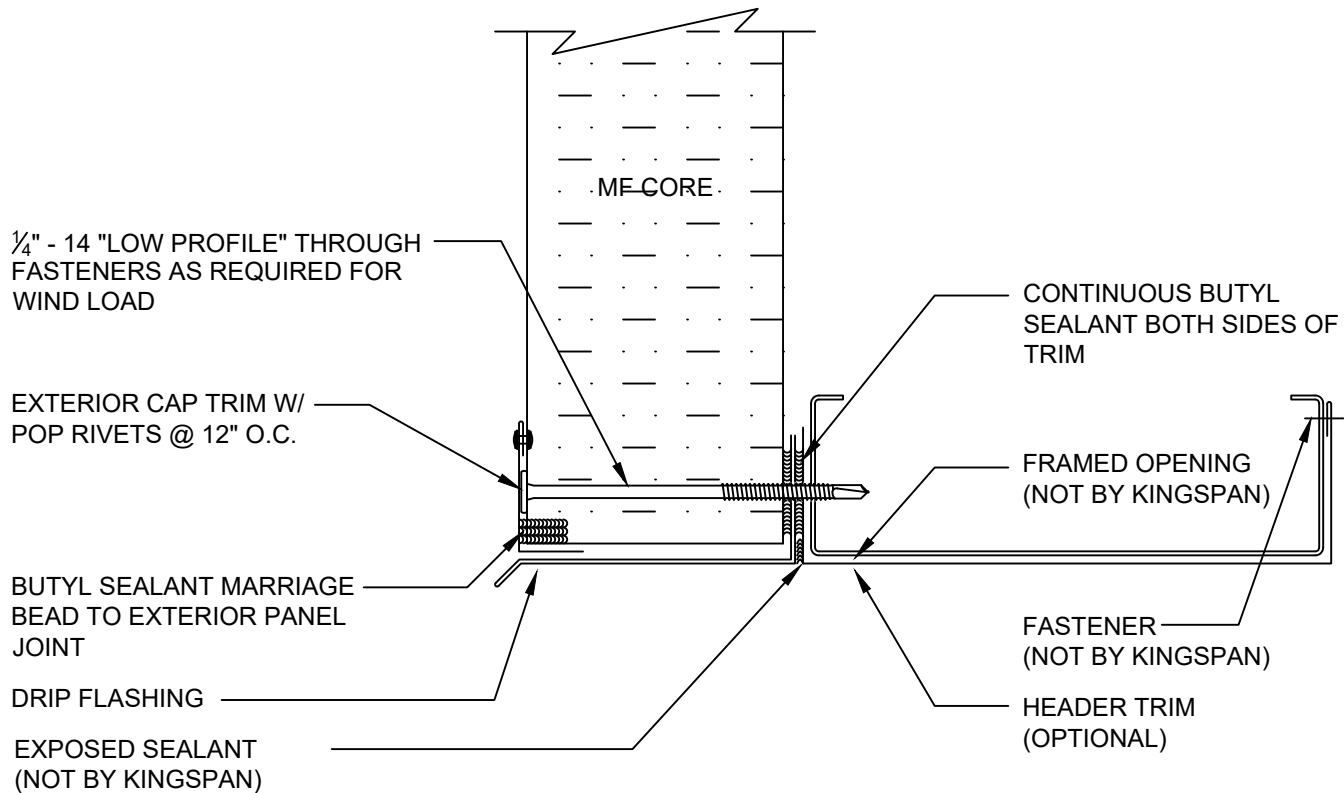
DETAIL #: CI-FO-08-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS



NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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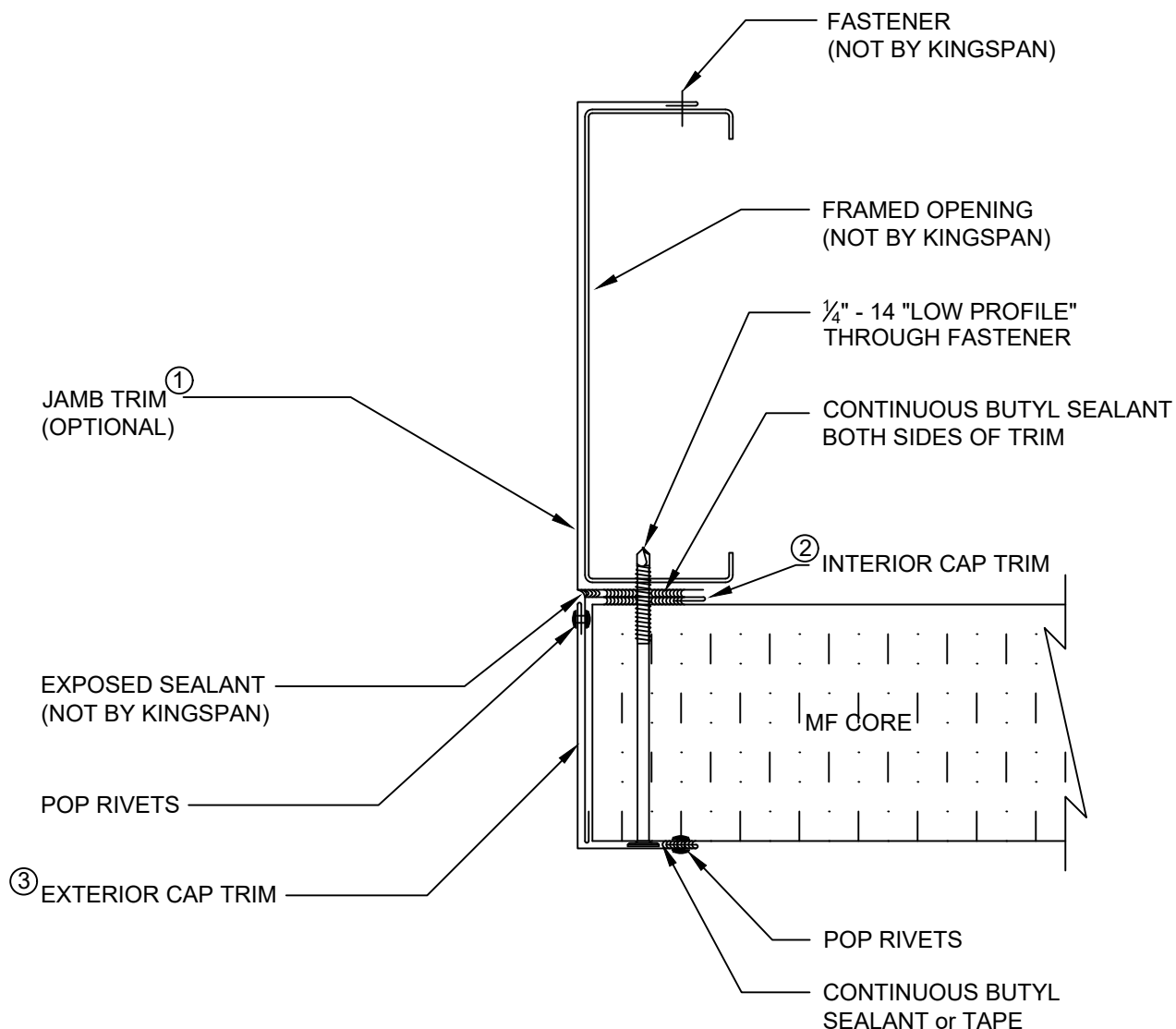
OVERHEAD DOOR
HEAD W/ DRIP EDGE
MID PANEL

DETAIL #: CI-FO-09-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL



TRIM INSTALLATION SEQUENCE:

- ① JAMB TRIM (OPTIONAL) & ALL APPLICABLE SEALANTS
- ② INTERIOR CAP TRIM & ALL APPLICABLE SEALANTS PRIOR TO INSTALLING THE PANEL AND THROUGH FASTENERS
- ③ EXTERIOR CAP TRIM

NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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OVERHEAD DOOR
TWO-PIECE JAMB

DETAIL #: CI-FO-10-KSMF-FR

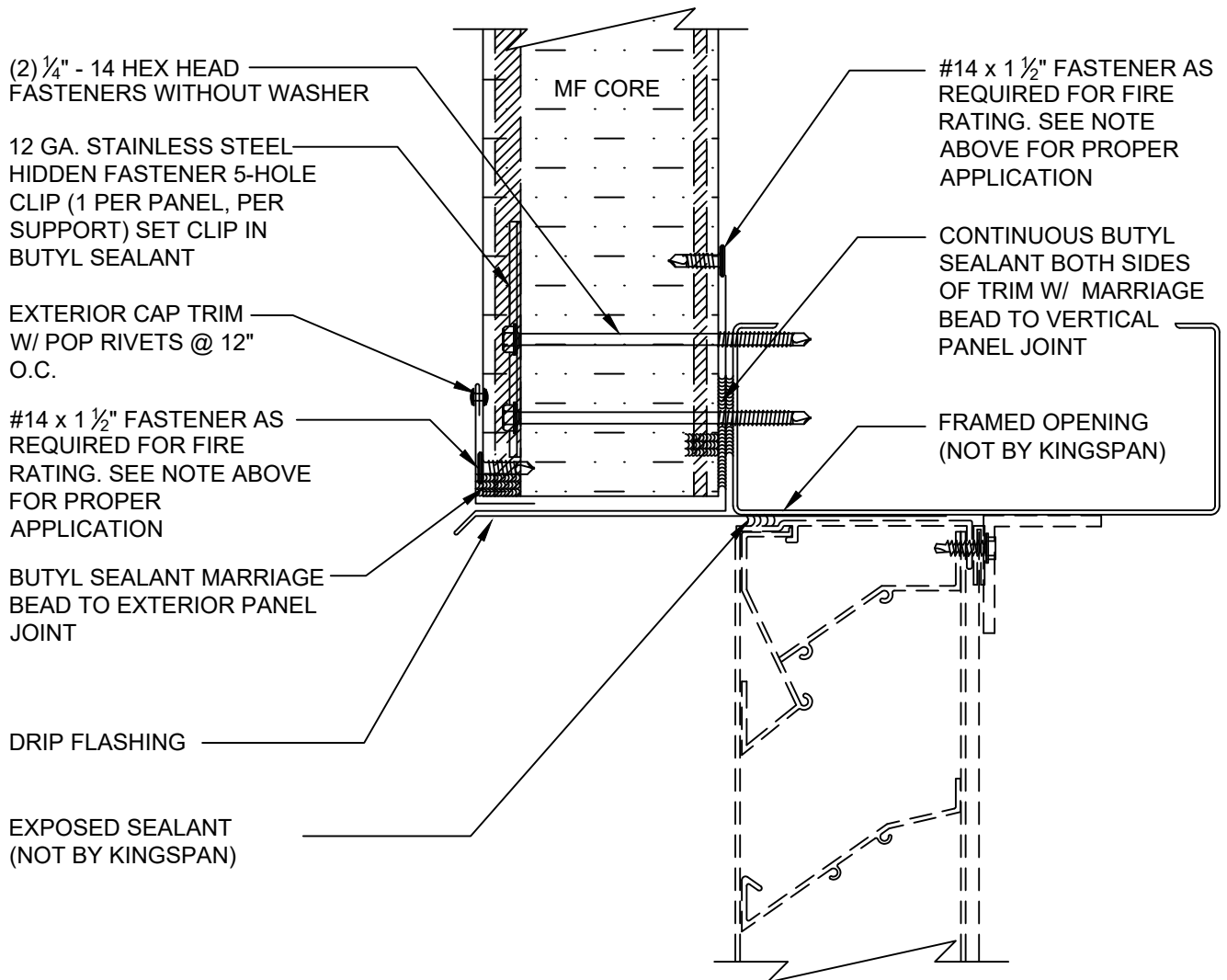
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #14 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #14 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.



NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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LOUVER HEAD
AT JOINT

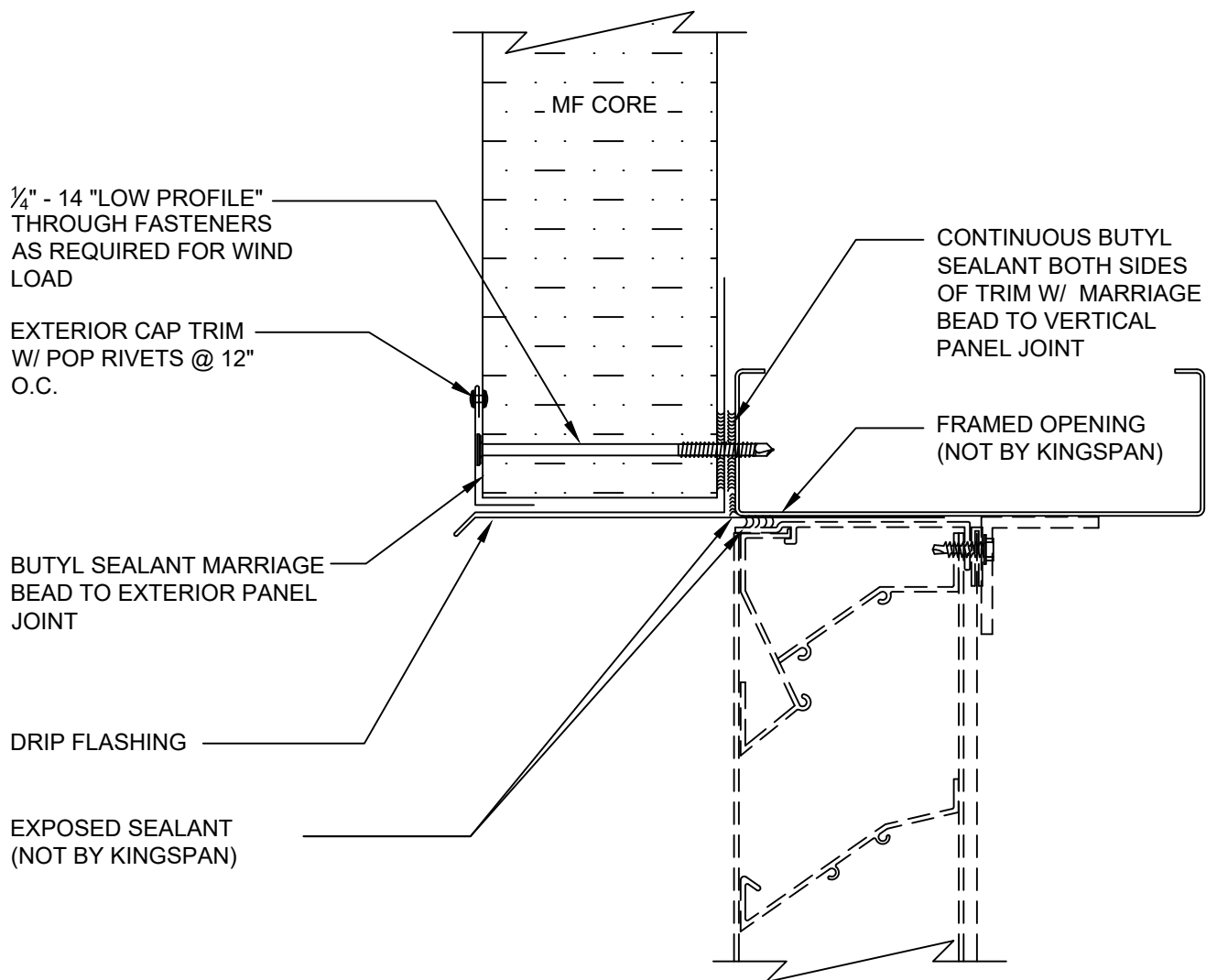
DETAIL #: CI-FO-11-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS



NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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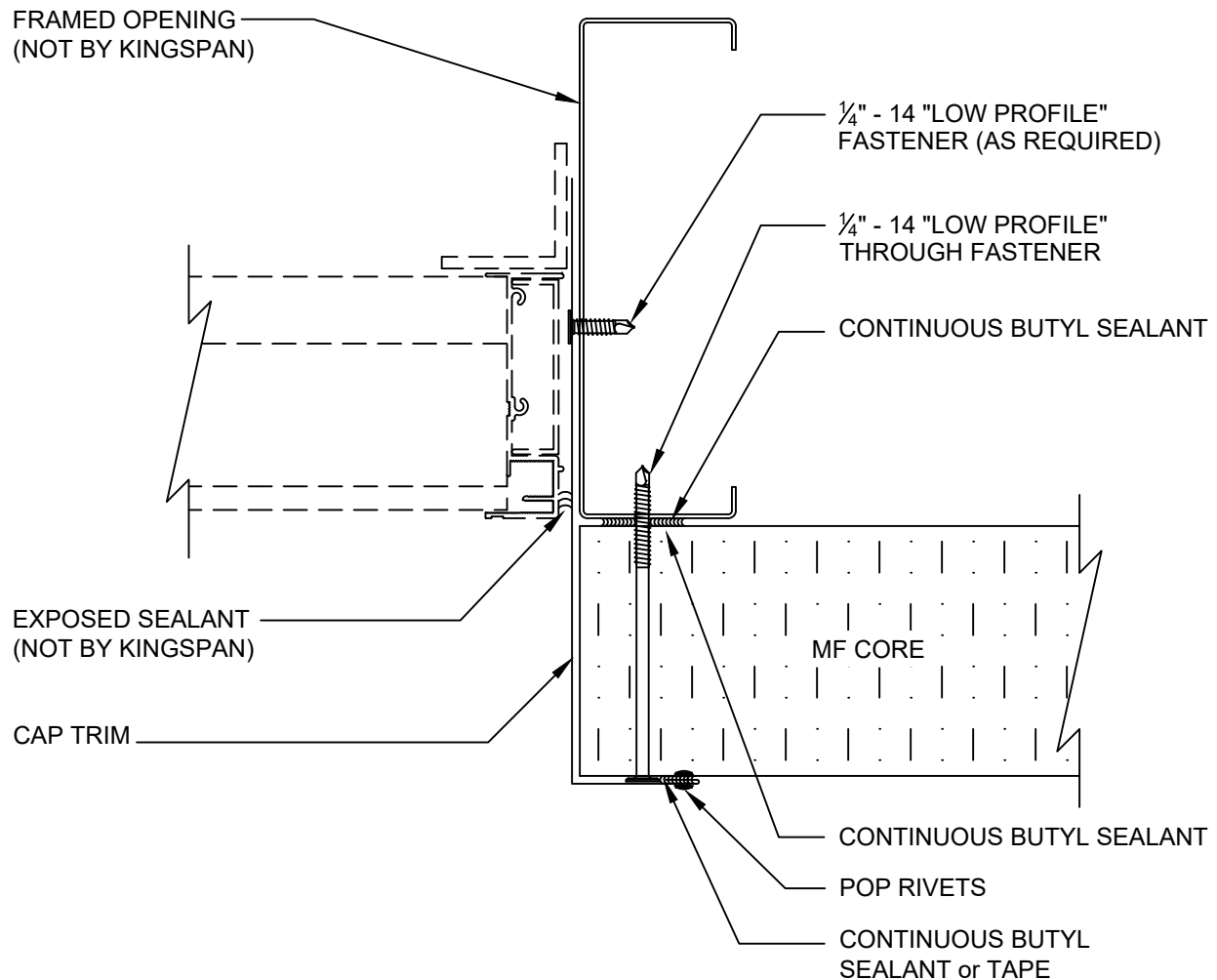
LOUVER HEAD
AT MID PANEL

DETAIL #: CI-FO-12-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL



NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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LOUVER JAMB

DETAIL #: CI-FO-13-KSMF-FR

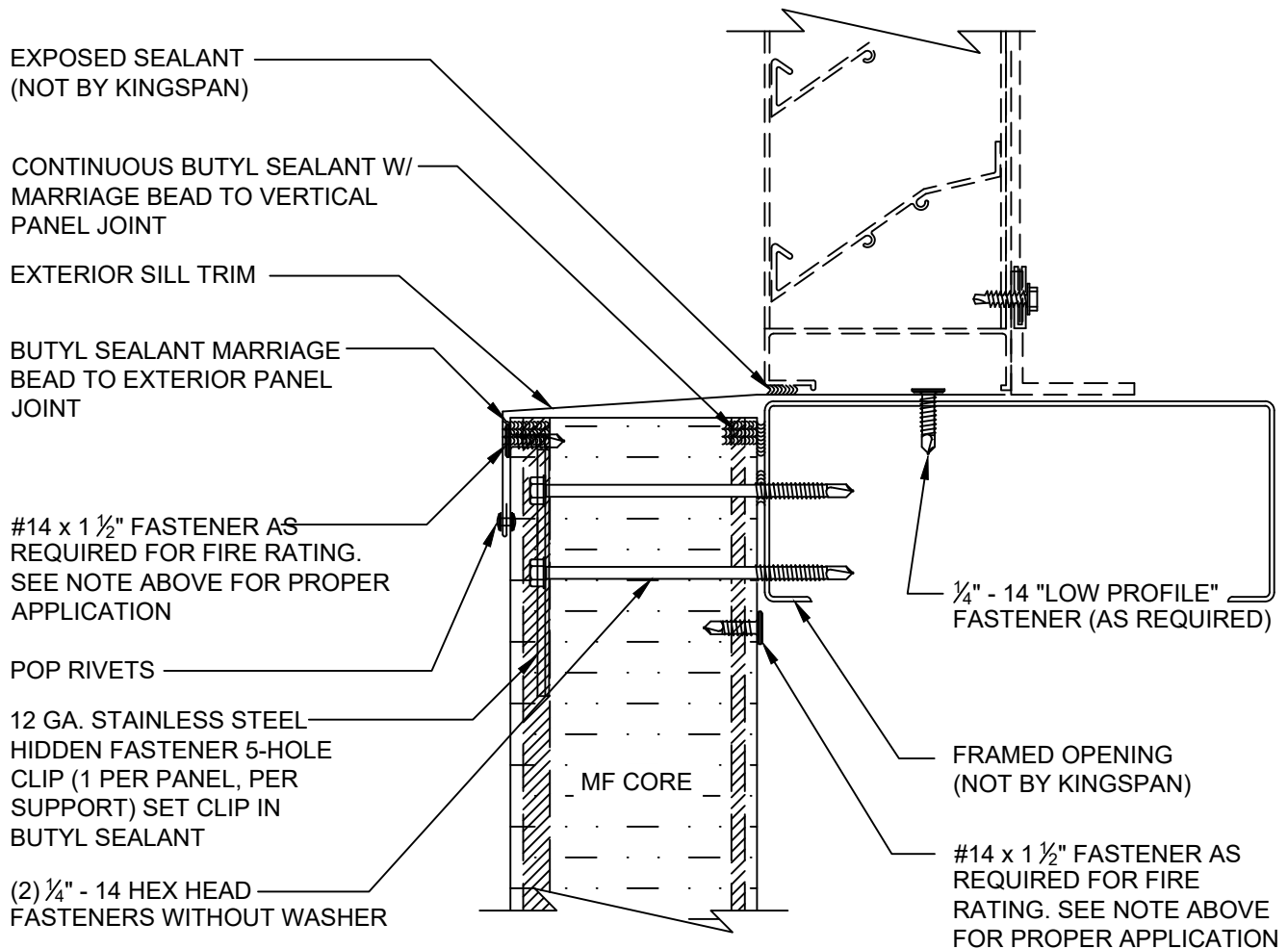
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #14 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #14 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.



NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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LOUVER SILL
AT JOINT

DETAIL #: CI-FO-14-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS

EXPOSED SEALANT
(NOT BY KINGSPAN)

CONTINUOUS BUTYL SEALANT W/
MARRIAGE BEAD TO VERTICAL
PANEL JOINT

EXTERIOR CAP TRIM

BUTYL SEALANT MARRIAGE
BEAD TO EXTERIOR PANEL
JOINT

POP RIVETS

1/4" - 14 "LOW PROFILE"
THROUGH FASTENERS
AS REQUIRED FOR WIND
LOAD

- MF CORE -

1/4" - 14 "LOW PROFILE"
FASTENER (AS REQUIRED)

FRAMED OPENING
(NOT BY KINGSPAN)

NOTE: FIRE RATED OPENINGS ARE DEPENDENT ON THE FIRE-RATED COMPONENT (WINDOW/DOOR/ETC., NOT BY KINGSPAN) SUPPLIERS DETAIL REQUIREMENTS. PLEASE CONTACT KINGSPAN TECHNICAL SERVICES OR THE RATE COMPONENT SUPPLIER FOR ADDITIONAL INFORMATION

NOTE: SEE DETAIL CI-TL-01-KSMF-FR ,
CI-TL-02-KSMF-FR , AND CI-TL-04-KSMF-FR
FOR TYPICAL TRIM LAP INSTRUCTIONS

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LOUVER SILL
AT MID PANEL

DETAIL #: CI-FO-15-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #14 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #14 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.

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

#13 x 1 ½" FASTENER AS
REQUIRED FOR FIRE
RATING. SEE NOTE ABOVE
FOR PROPER
APPLICATION

SHEET METAL CAP
FLASHING MIN. 18GA FIELD
DRILL 3/8" Ø WEEP HOLES
TO ALIGN WITH PANEL
JOINTS (NOT BY KINGSPAN)

HILTI CFS-S SIL GG
FIRESTOP SILICONE
SEALANT MINIMUM
5/8" DEPTH
(NOT BY KINGSPAN)

3/8"
MAX.

STACK FLASHING

STACK TRIM W/ POP
RIVETS @ 8" O.C.

CONTINUOUS BUTYL
SEALANT BELOW STACK
FLASHING

SHEET METAL FLASHING MIN
18GA. (NOT BY KINGSPAN)

#13 x 1 ½" FASTENER AS
REQUIRED FOR FIRE
RATING. SEE NOTE ABOVE
FOR PROPER
APPLICATION

#13 x 1 ½" FASTENER AS
REQUIRED FOR FIRE RATING.
SEE NOTE ABOVE FOR PROPER
APPLICATION

HORIZONTAL SUPPORTS
(NOT BY KINGSPAN)

¼" - 14 HEX HEAD FASTENERS
WITHOUT WASHER

CONTINUOUS BUTYL SEALANT
W/ MARRIAGE BEAD TO
VERTICAL PANEL JOINT

CONTINUOUS BUTYL SEALANT
BETWEEN STACK FLASHING AND
HORIZONTAL STEEL SUPPORT

COMPRESSED MINERAL FIBER

HILTI CFS-S SIL GG FIRESTOP
SILICAONE SEALANT MINIMUM
5/8" DEPTH (NOT BY KINGSPAN)

CONTINUOUS BUTYL SEALANT
W/ MARRIAGE BEAD TO
VERTICAL PANEL JOINT

#13 x 1 ½" FASTENER AS
REQUIRED FOR FIRE RATING.
SEE NOTE ABOVE FOR
PROPER APPLICATION

REVISION

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**FIRE RATED ASSEMBLY
STACK JOINT
AT JOINT**

DETAIL #: CI-SJ-01-KSMF-FR

RELEASE: 2021


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KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS

STACK TRIM W/ POP
RIVETS @ 8" O.C.

SHEET METAL FLASHING
MIN 18GA. (NOT BY
KINGSPAN)

1/4" - 14 "LOW PROFILE"
THROUGH FASTENERS
AS REQUIRED FOR WIND
LOAD

HILTI CFS-S SIL GG
FIRESTOP SILICONE
SEALANT MINIMUM 5/8"
DEPTH
(NOT BY KINGSPAN)

3/8"
MAX.

STACK FLASHING

CONTINUOUS BUTYL
SEALANT BELOW STACK
FLASHING

SHEET METAL FLASHING MIN
18GA. (NOT BY KINGSPAN)

1/4" - 14 "LOW PROFILE"
THROUGH FASTENERS
AS REQUIRED FOR WIND
LOAD

HORIZONTAL SUPPORT

CONTINUOUS BUTYL SEALANT
W/ MARRIAGE BEAD TO
VERTICAL PANEL JOINT

CONTINUOUS BUTYL SEALANT
BETWEEN STACK FLASHING AND
HORIZONTAL STEEL SUPPORT

COMPRESSED MINERAL FIBER

HILTI CFS-S SIL GG FIRESTOP
SILICONE SEALANT MINIMUM
5/8" DEPTH (NOT BY KINGSPAN)

CONTINUOUS BUTYL SEALANT
W/ MARRIAGE BEAD TO
VERTICAL PANEL JOINT

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**FIRE RATED ASSEMBLY
STACK JOINT
AT MID PANEL**

DETAIL #: CI-SJ-02-KSMF-FR

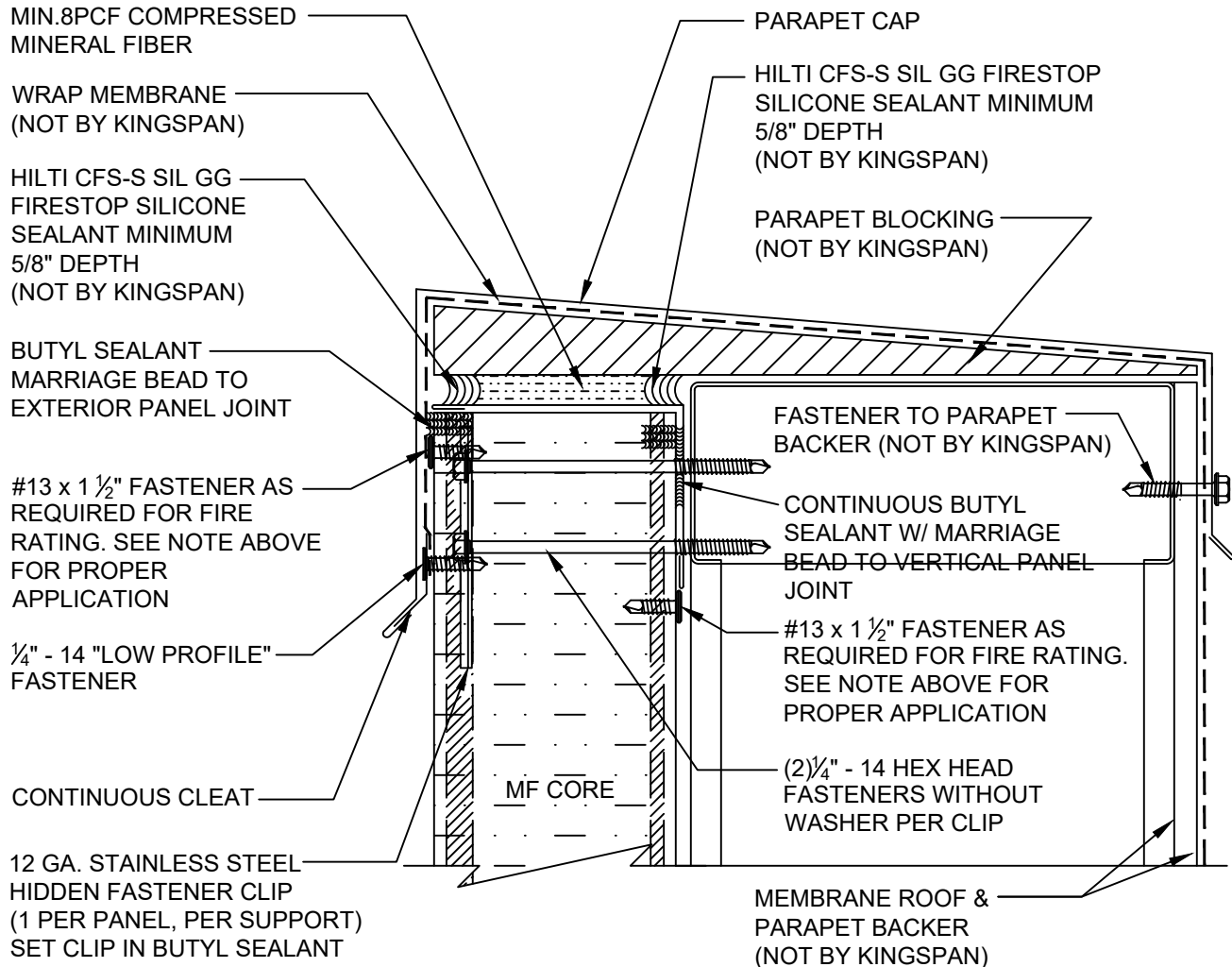
RELEASE: 2021


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KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.



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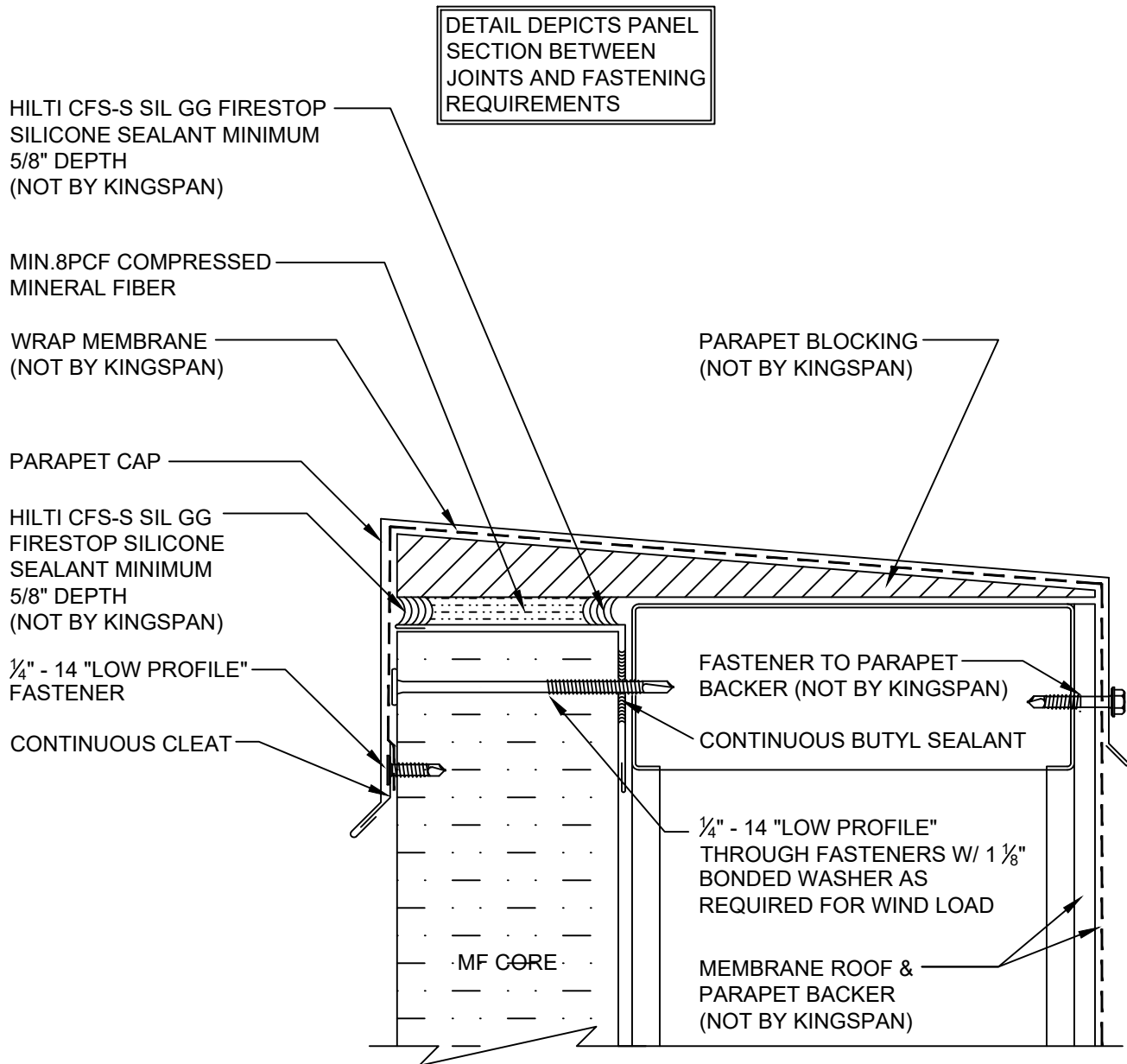
PARAPET
WITH FLUSH TRIM
AT JOINT

DETAIL #: CI-PR-01-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL



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**PARAPET
WITH FLUSH TRIM
AT MID PANEL**

DETAIL #: CI-PR-02-KSMF-FR

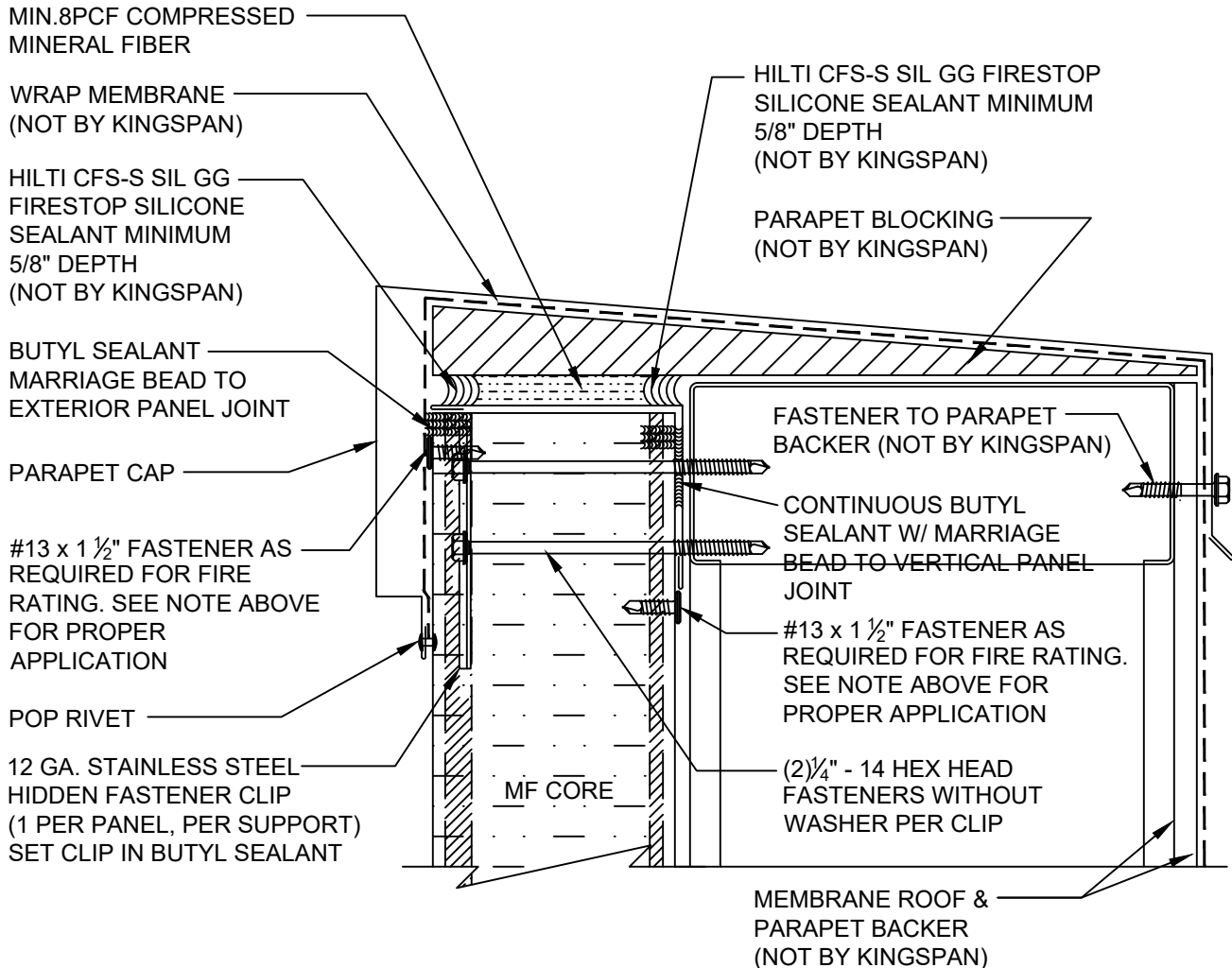
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

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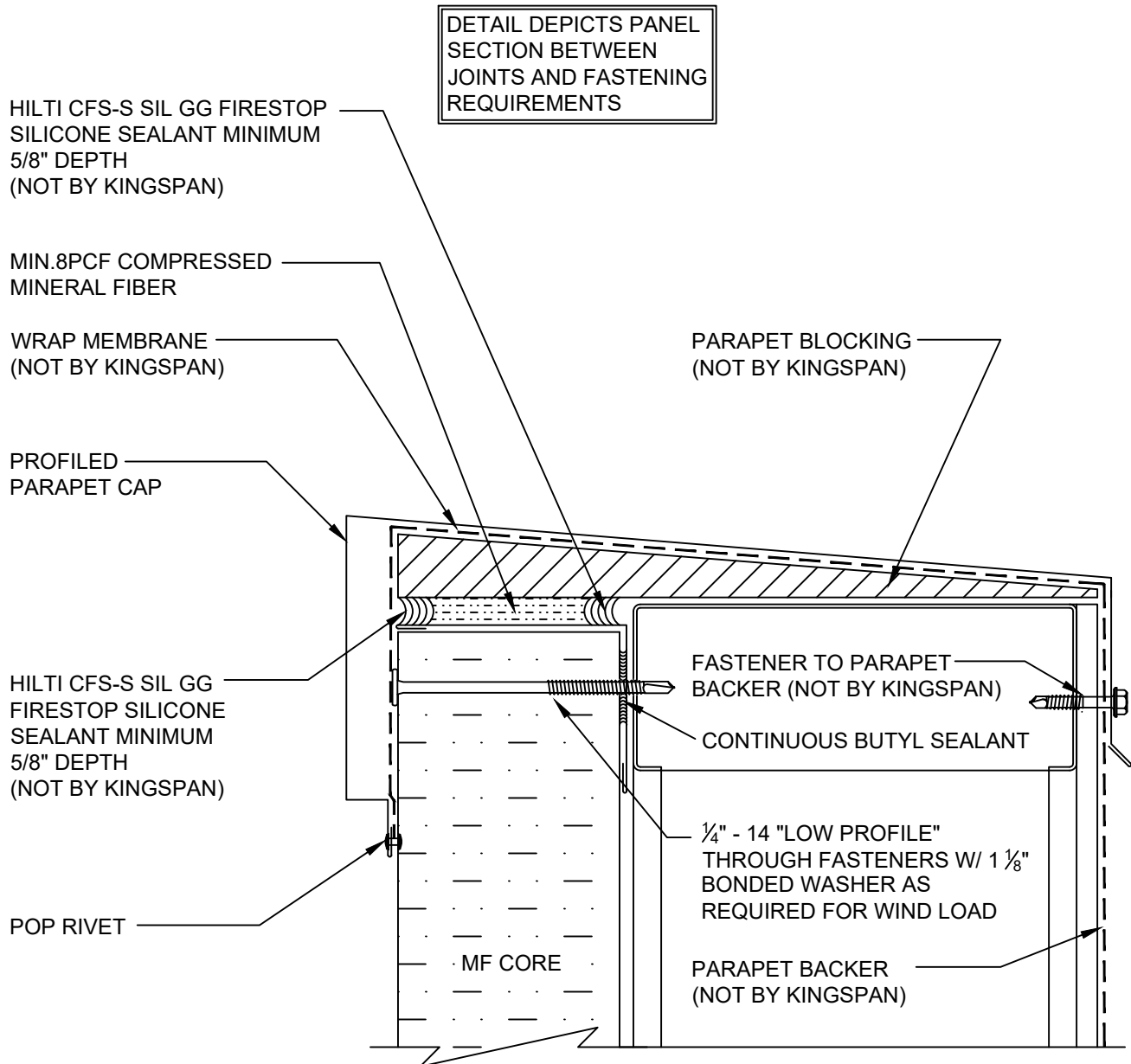
PARAPET
WITH PROFILED TRIM
AT JOINT

DETAIL #: CI-PR-03-KSMF-FR

RELEASE: 2021


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KSMF SERIES PANELS - FIRE RATED WALL



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PARAPET
WITH PROFILED TRIM
AT MID PANEL

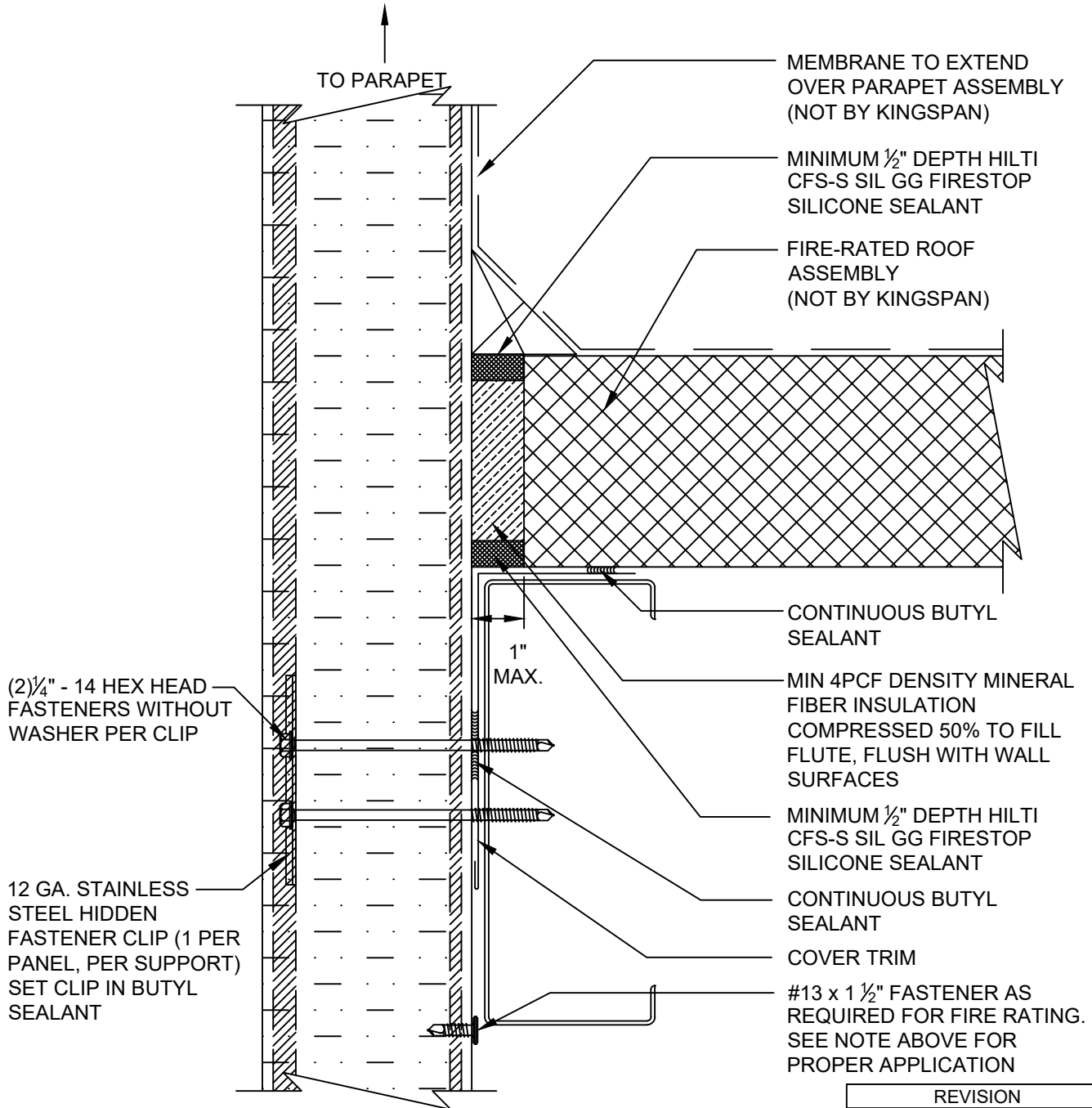
DETAIL #: CI-PR-04-KSMF-FR

RELEASE: 2021



KSMF-FR SERIES PANELS - FIRE RATED

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.
 FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.



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**FIRE RATED ROOF BY
OTHERS TO PARAPET
WALL**

DETAIL #: CI-PR-05-KSMF-FR

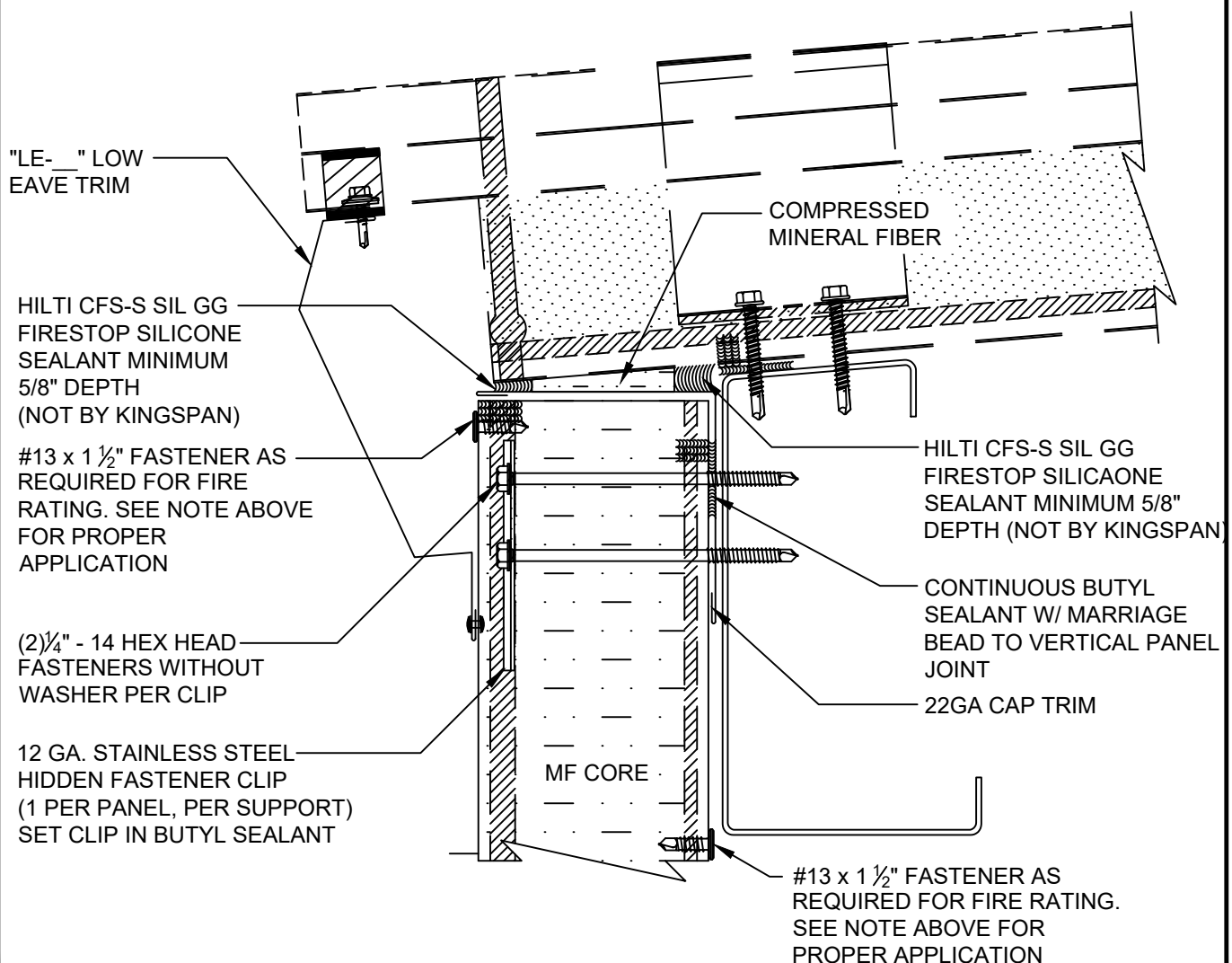
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

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.

NOTE: REFER TO ROOF DETAILS FOR ROOF INSTALLATION



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WALL TO ROOF AT
JOINT

DETAIL #: CI-WR-01-KSMF-FR

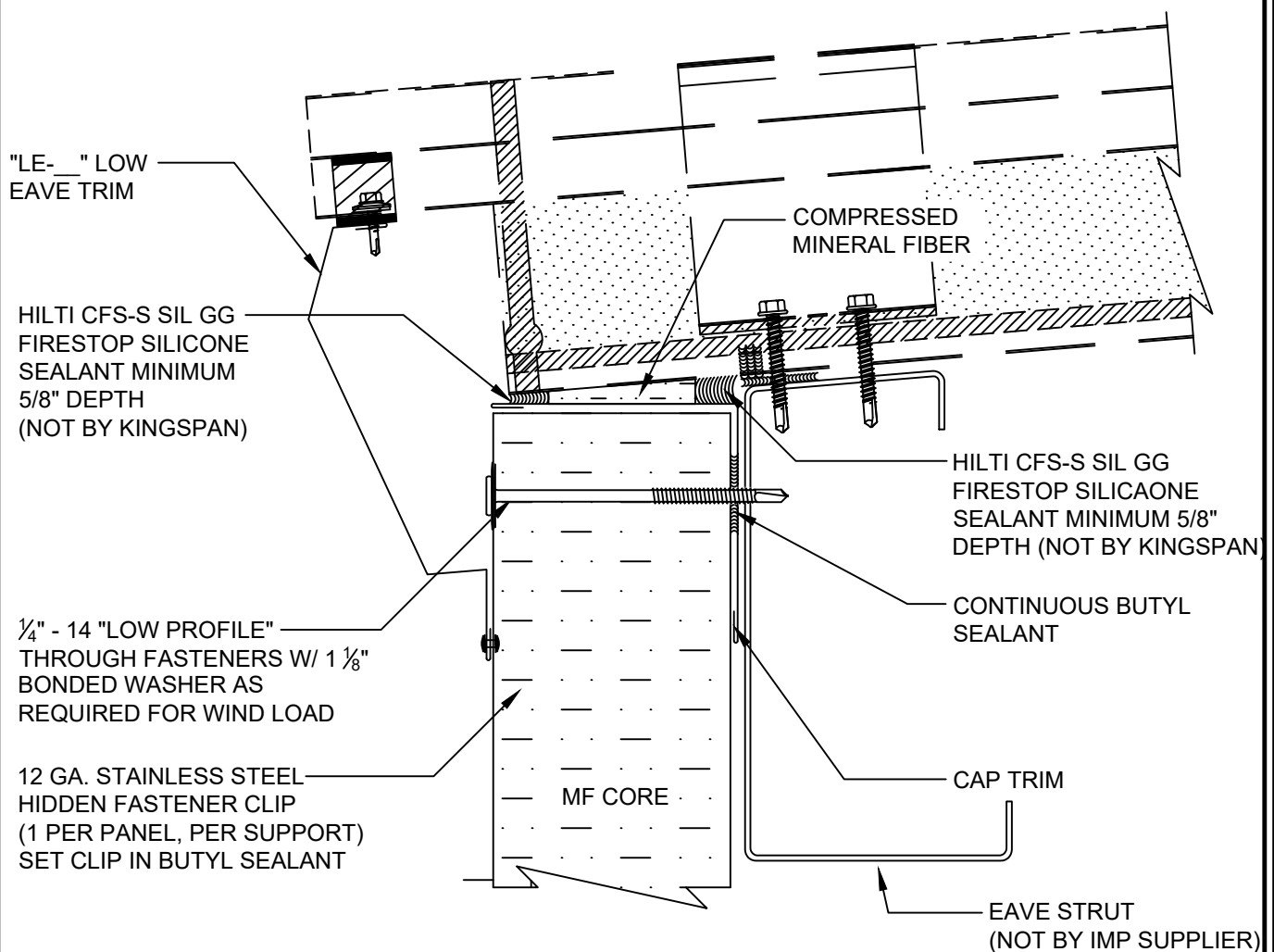
RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

DETAIL DEPICTS PANEL
SECTION BETWEEN
JOINTS AND FASTENING
REQUIREMENTS

NOTE: REFER TO ROOF DETAILS
FOR ROOF INSTALLATION



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WALL TO ROOF AT
MID-PANEL

DETAIL #: CI-WR-01-KSMF-FR

RELEASE: 2021

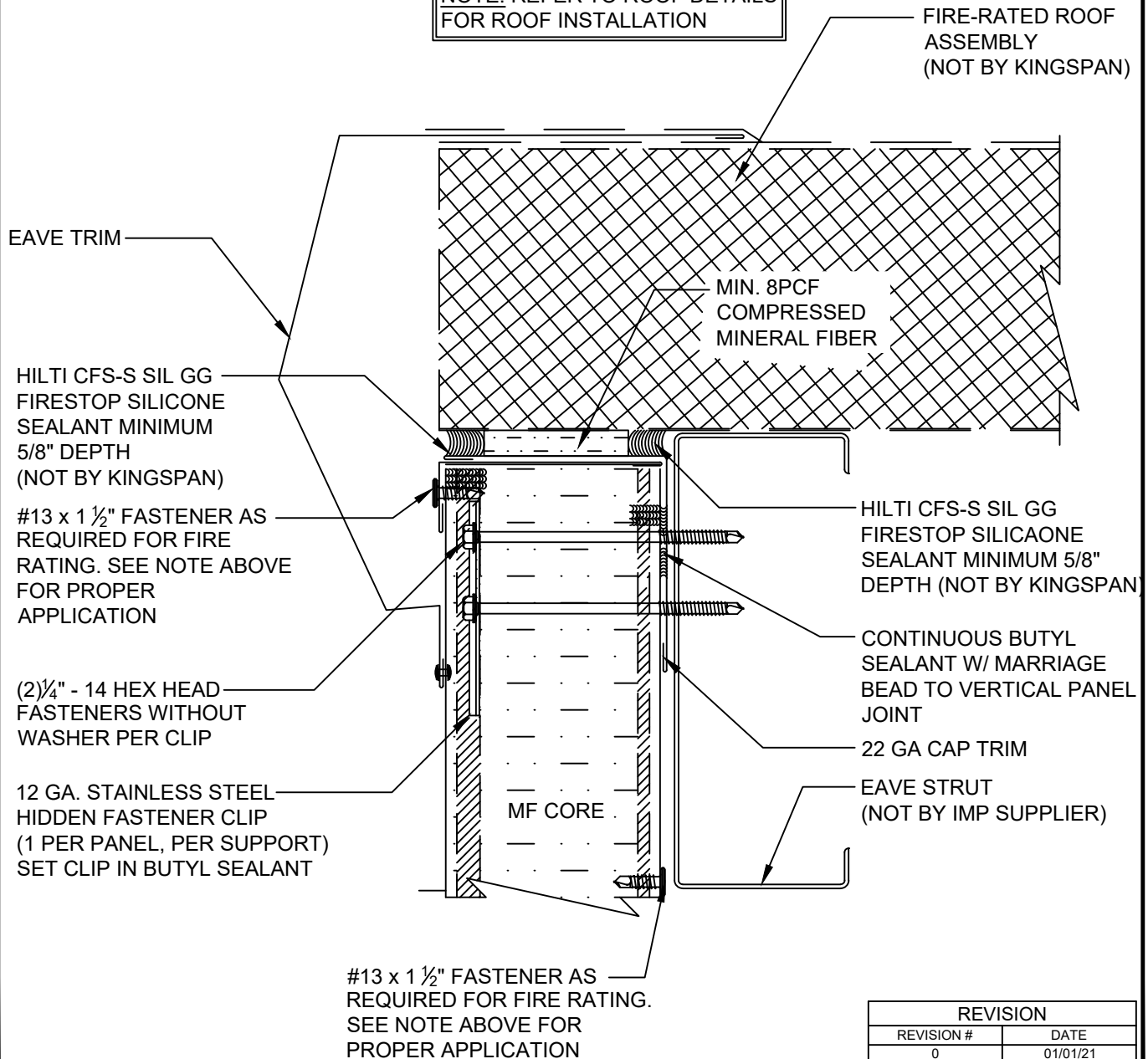


KSMF SERIES PANELS - FIRE RATED WALL

FOR 3 HR RATING - 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL @ 12" O.C.

FOR 1 AND 2HR RATING - A 1 ½" LONG STEEL OR STAINLESS STEEL #13 FASTENER SHALL BE INSTALLED AT PANEL JOINTS ON BOTH SIDES OF THE WALL, TOP AND BOTTOM ONLY.

NOTE: REFER TO ROOF DETAILS FOR ROOF INSTALLATION



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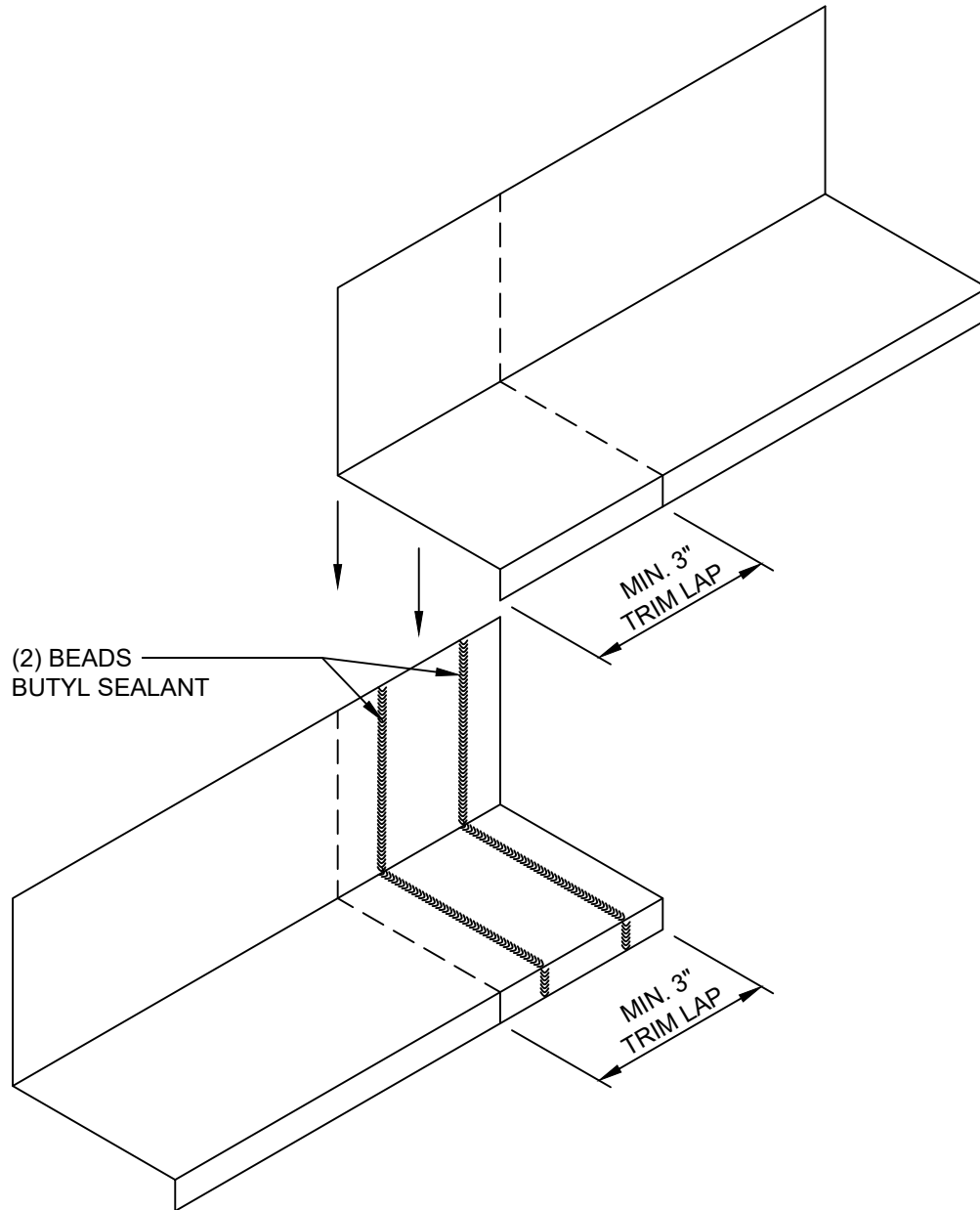
FIRE RATED WALL TO
ROOF (BY OTHERS)

DETAIL #: CI-WR-03-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



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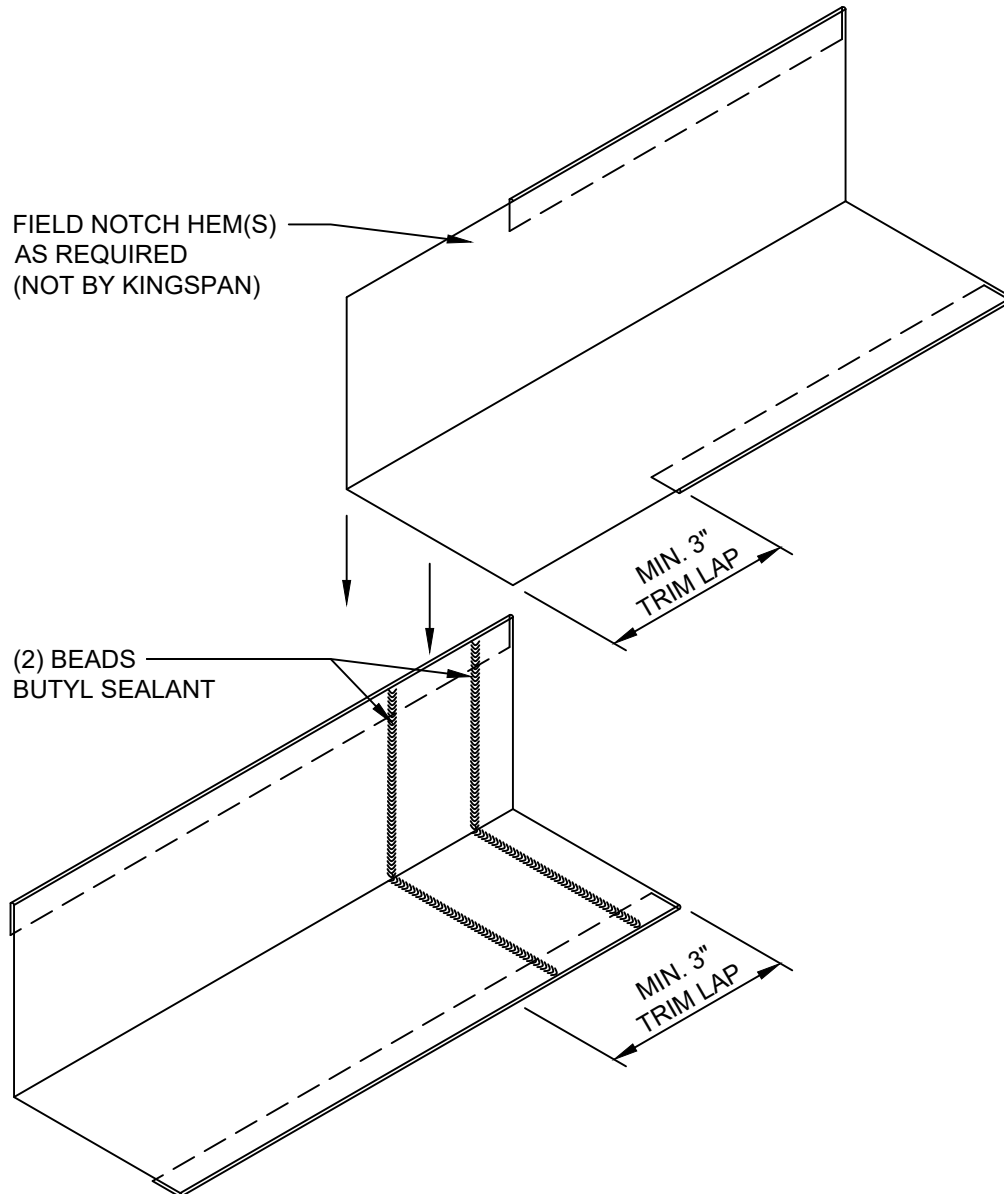
TRIM END LAP

DETAIL #: CI-TL-01-KSMF-FR

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KSMF SERIES PANELS - FIRE RATED WALL



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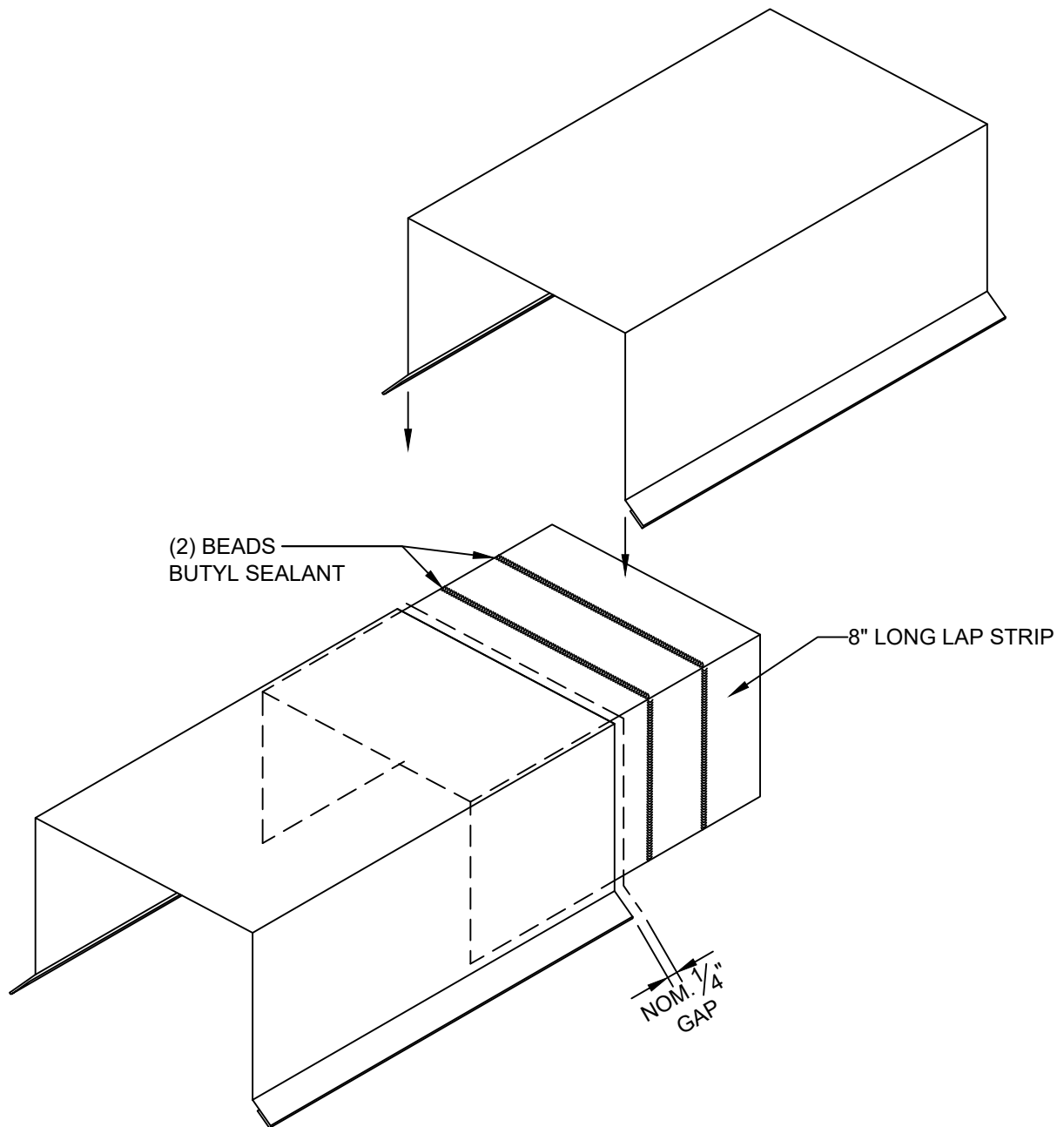
TRIM LAP WITH HEM

DETAIL #: CI-TL-02-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL



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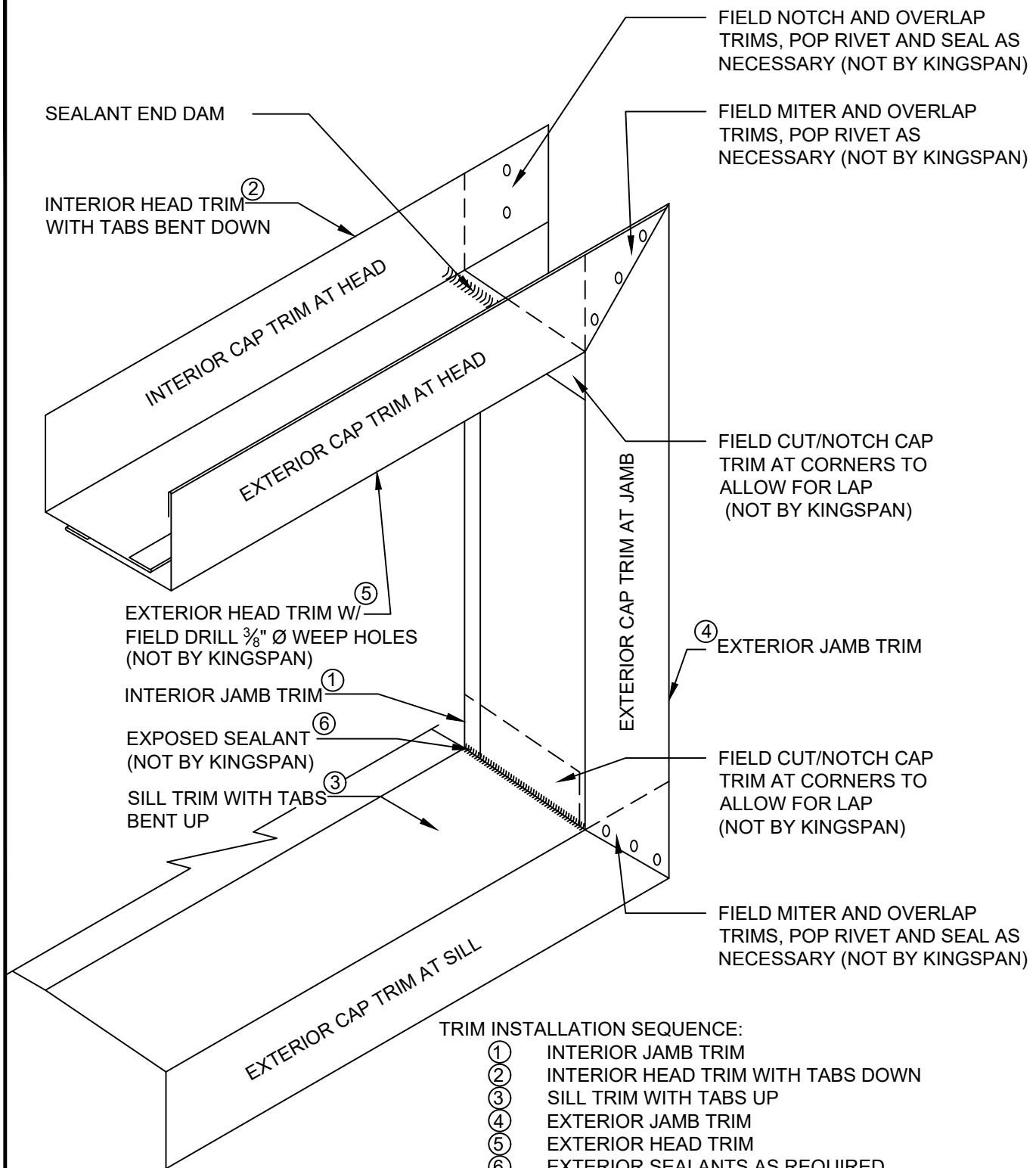
TRIM END LAP WITH
LAP STRIP

DETAIL #: CI-TL-03-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL



TRIM INSTALLATION SEQUENCE:

- ① INTERIOR JAMB TRIM
- ② INTERIOR HEAD TRIM WITH TABS DOWN
- ③ SILL TRIM WITH TABS UP
- ④ EXTERIOR JAMB TRIM
- ⑤ EXTERIOR HEAD TRIM
- ⑥ EXTERIOR SEALANTS AS REQUIRED

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TRIM LAP AT
FRAMED OPENING

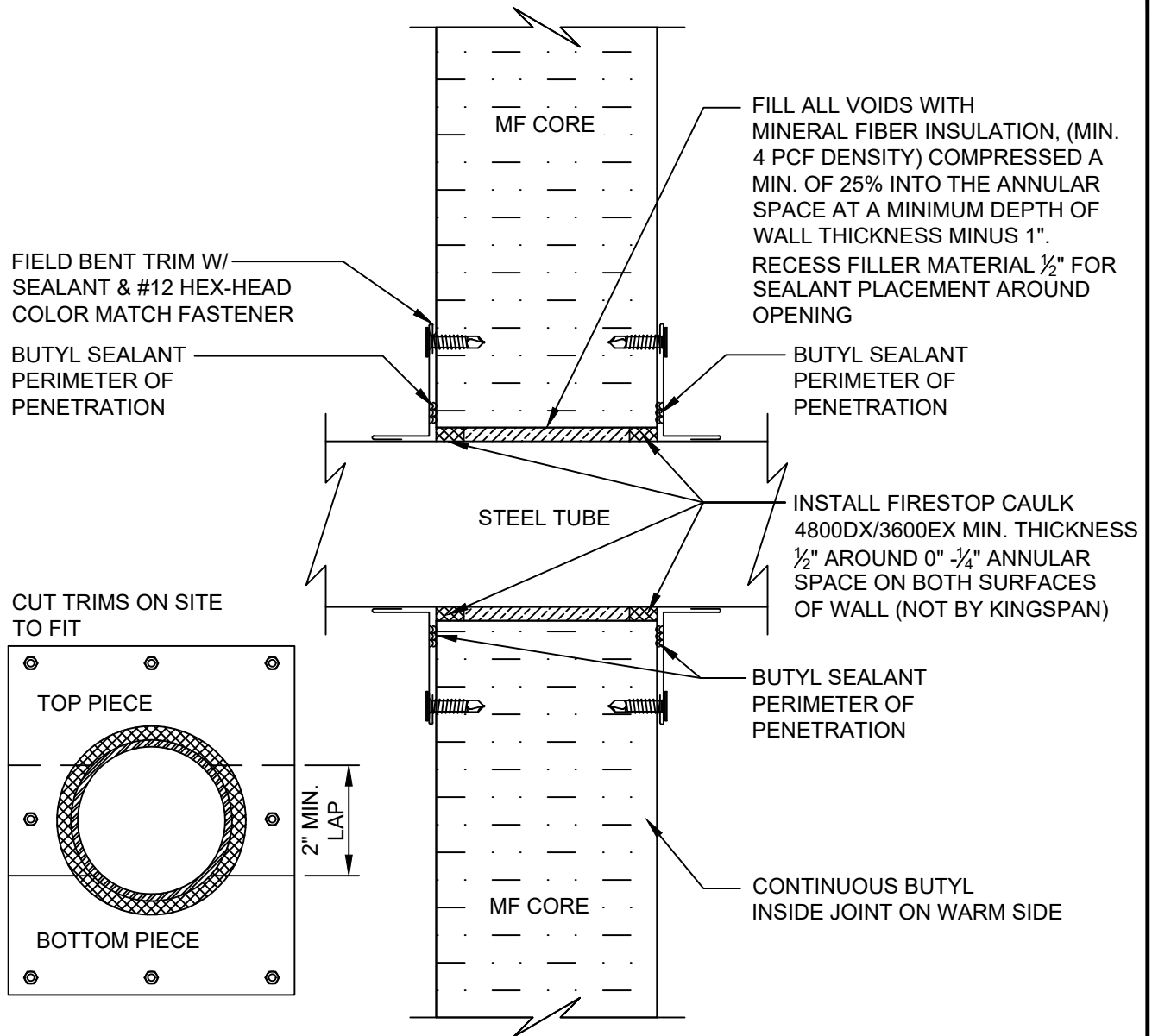
DETAIL #: CI-TL-04-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

AVOID LOCATING PENETRATIONS AT JOINT LOCATIONS



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WALL PENETRATION

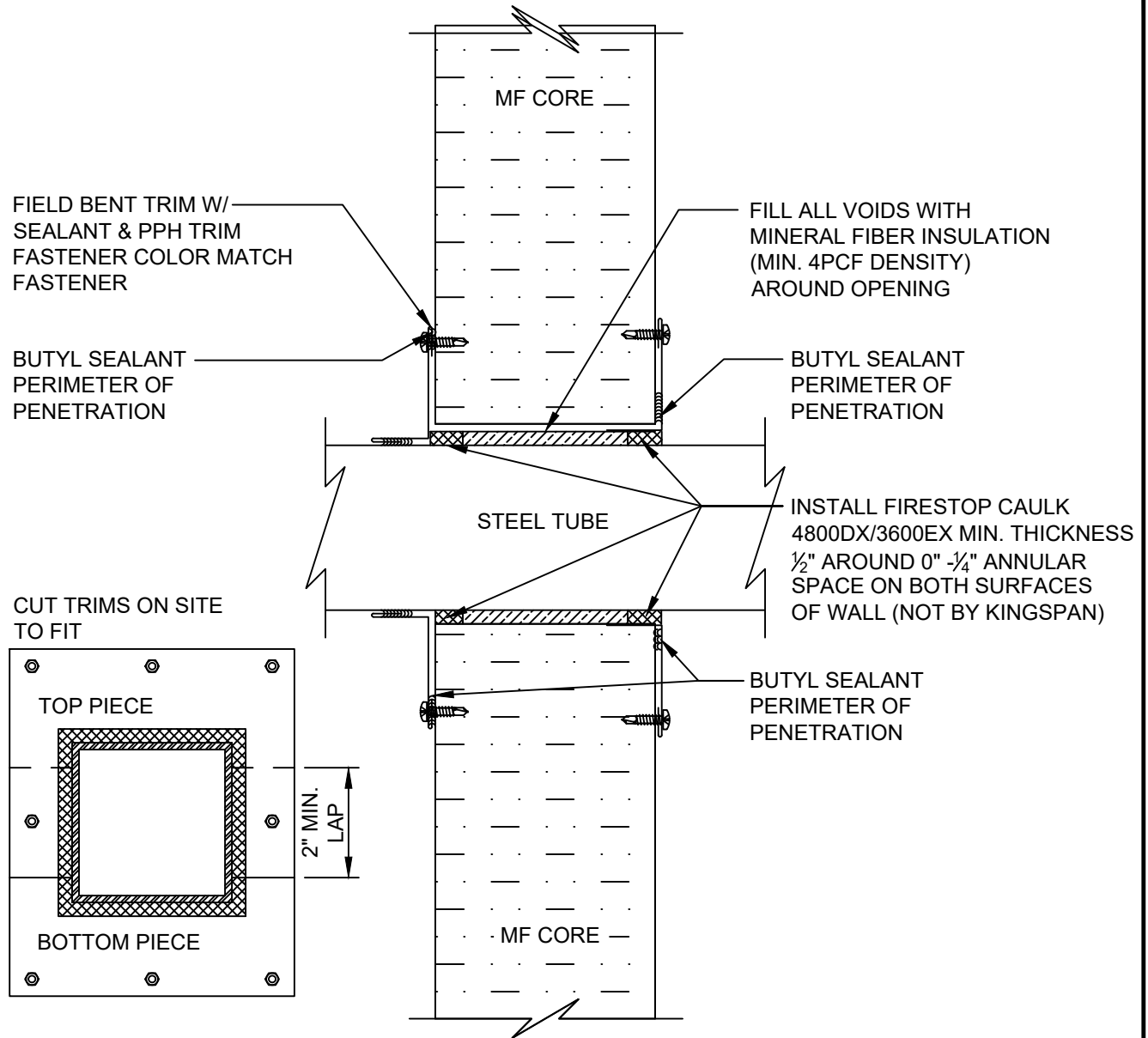
DETAIL #: CI-PN-01-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

AVOID LOCATING PENETRATIONS AT JOINT LOCATIONS



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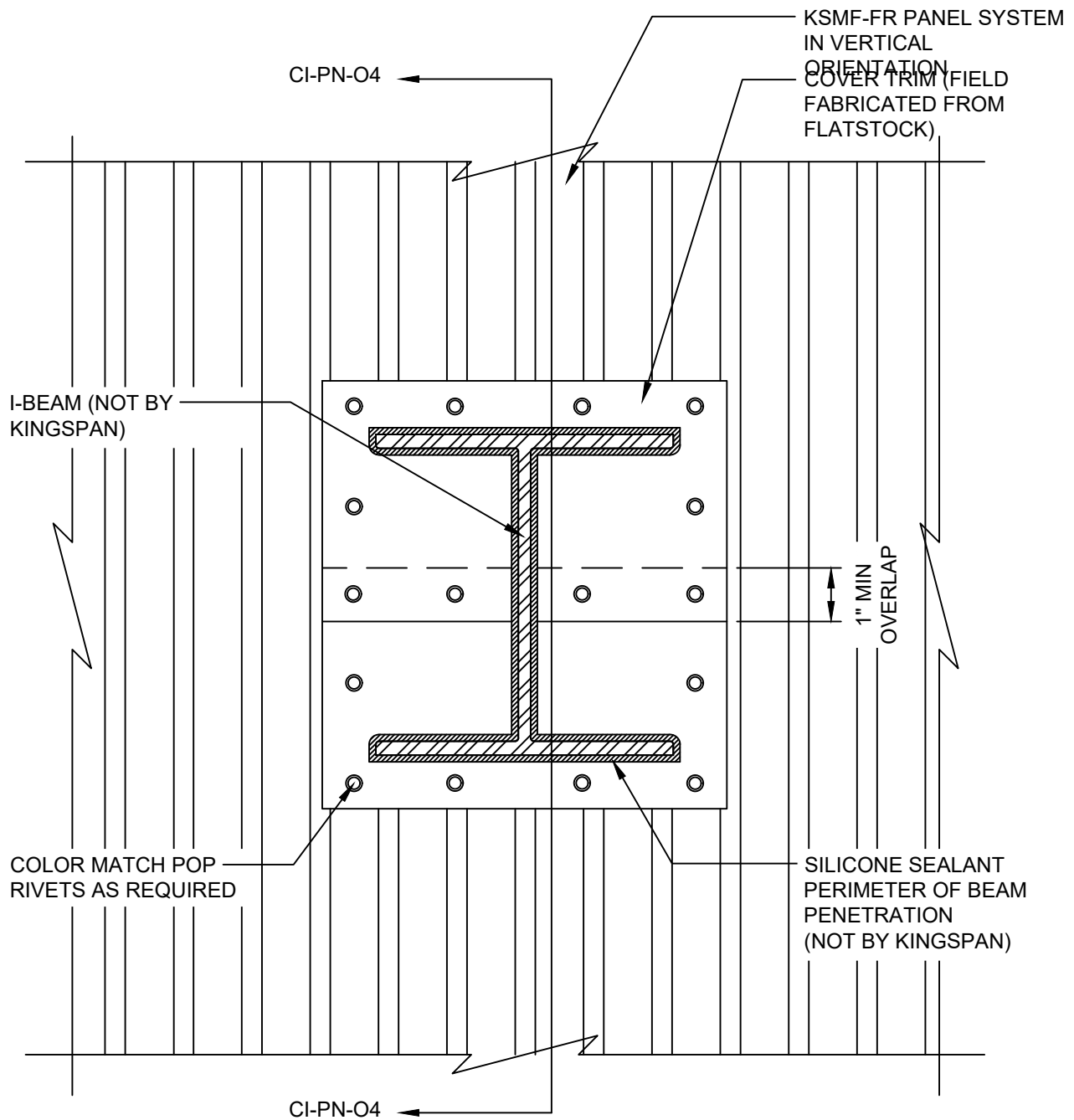
STRUCTURAL MEMBER
PENETRATION

DETAIL #: CI-PN-02-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL



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I-BEAM PENETRATION

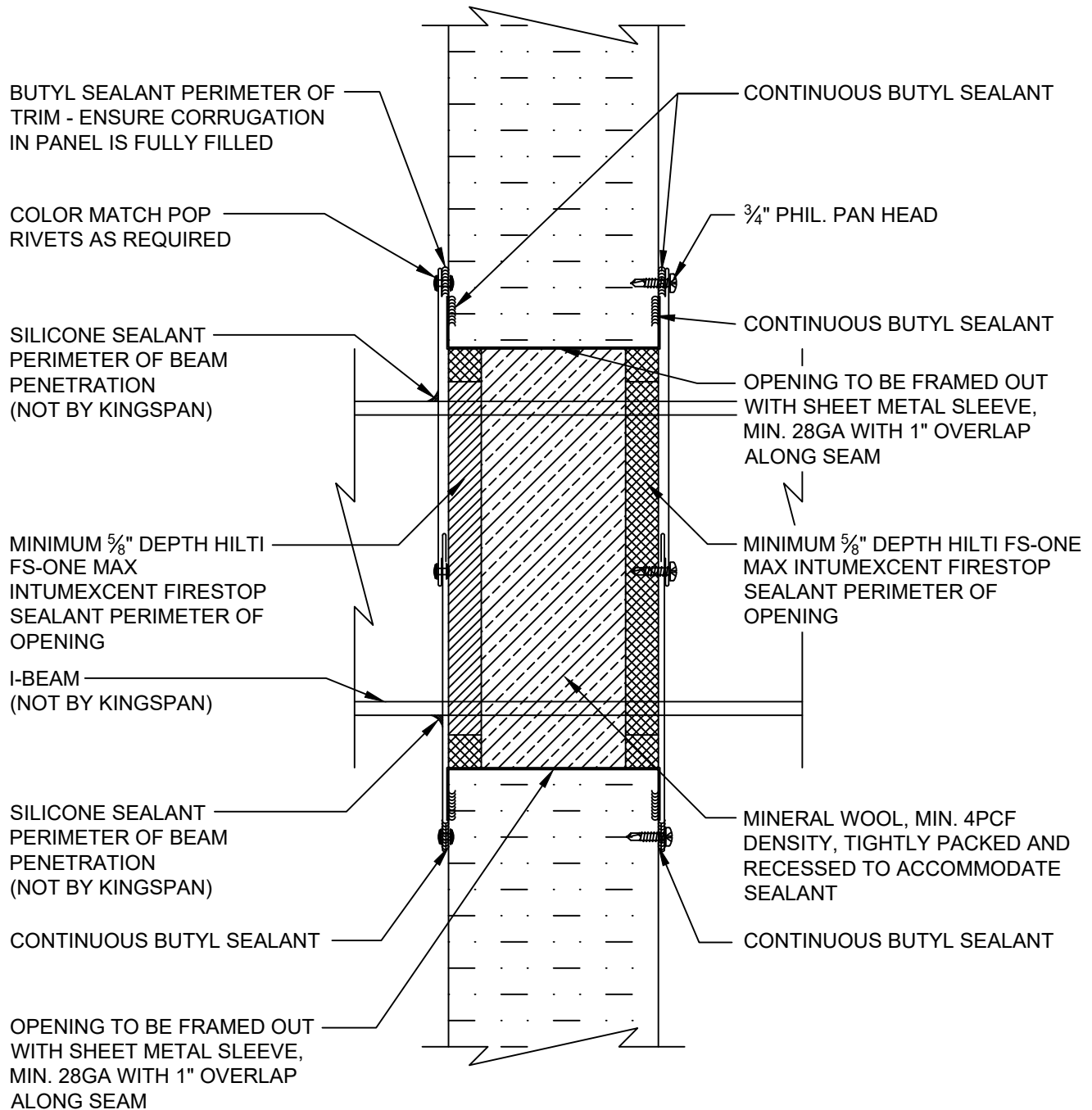
DETAIL #: CI-PN-03-KSMF-FR

RELEASE: 2021



KSMF SERIES PANELS - FIRE RATED WALL

AVOID LOCATING PENETRATIONS AT JOINT LOCATIONS



REVISION

REVISION #	DATE
0	01/01/21

I-BEAM PENETRATION SECTION

DETAIL #: CI-PN-04-KSMF-FR

RELEASE: 2021

