

## DISCLAIMER:

These details are based on industry accepted practices and provide a guideline for proper insulated metal panel and component installation.

The location of vapor barriers and associated sealants shown in these details is based on standard design practices for *commercial industrial* applications for most U.S. and Canadian climatic zones. The default vapor barrier location is on the warm side in winter (the interior side of the panels).

For projects located in extremely cold climates, exposed to high wind-driven rain or unusual interior conditions (sustained temperatures below 65°F), it may be advisable to modify the vapor barrier (joint sealant) location, or to add optional exterior joint sealants.

*It is the sole responsibility of the project architect to verify vapor barrier location, insulation required by code and HVAC equipment/ventilation requirements to allow proper air flow and the prevention of condensation.*

*It is also the sole responsibility of the project architect to determine project-specific design loads. Metl-Span Technical Services is available to verify allowable panel spans and fastening requirements when provided with this information.*

*The details contained herein show side joint fastening only. Please contact Metl-Span technical services for project-specific fastening requirements.*

*All structural supports are shown for clarity only, and are not provided by Metl-Span.*

Butyl caulk: For commercial/industrial projects the caulk is usually applied to the interior joint female pocket (see DISCLAIMER). Butyl caulk is also used to create "marriage beads" which tie the panel sidejoint vapor seals to panel endjoint vapor seals. Butyl caulk is considered "non-skinning", which means it stays soft, flexible, and does not harden. *Butyl caulk is for unexposed areas only, and cannot be used where it will be exposed to weather or sunlight*

Butyl sealant tape: Applied between flashings and panels to form a weathertight seal. All fasteners penetrating the flashing must be inserted through the sealant tape.

Urethane caulk: Used in lieu of butyl sealant where there is exposure to the elements. It is recommended for lapped trims, exposed perimeter seals at framed openings or to seal between different construction materials, such as metal to concrete.

Panel fasteners: Insulated metal panel fasteners are generally either self-drilling/self-tapping (also known as TEK screws), or self-tapping (also known as B point screws).

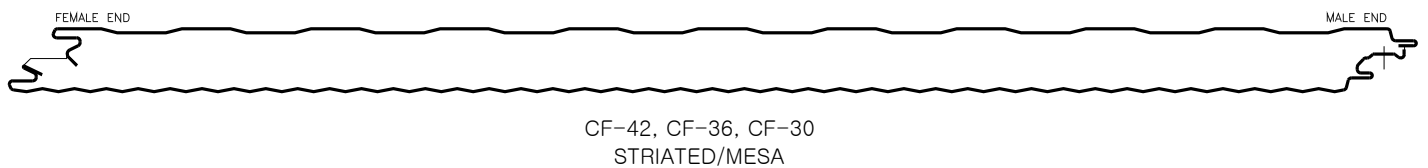
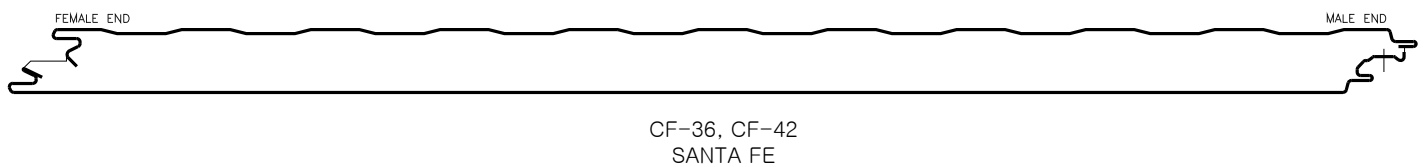
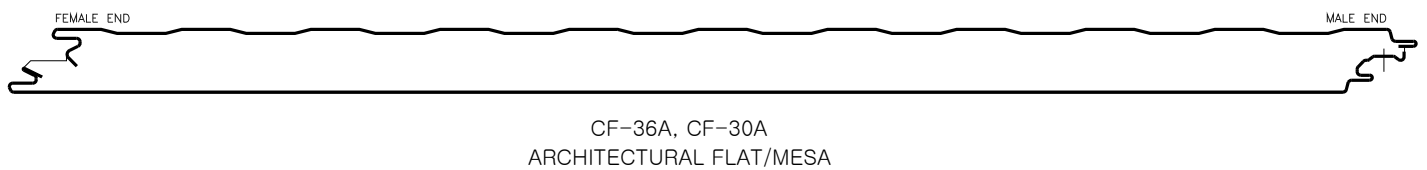
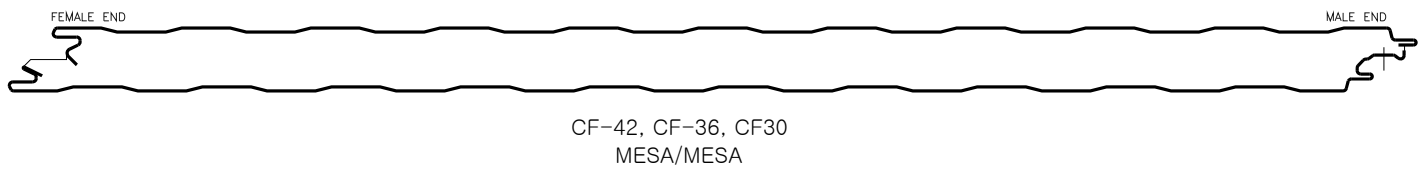
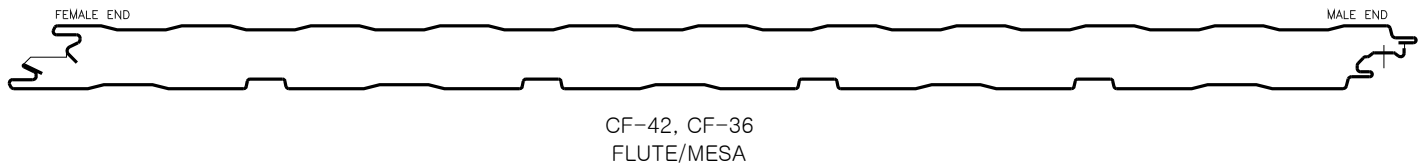
TEK Fasteners contain a built-in drill point, and do not require pre-drilling. They are the quickest and easiest way to attach panels to light-medium gauge supports.

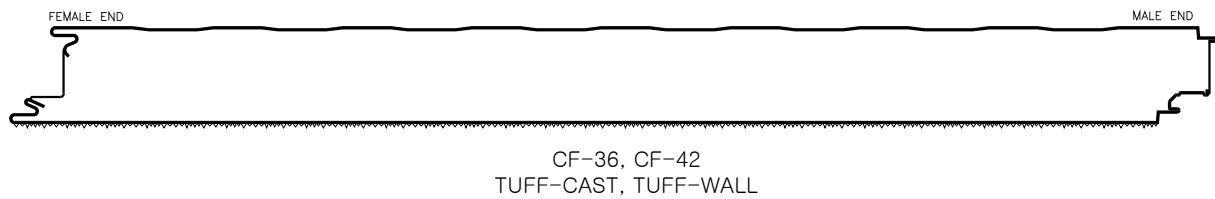
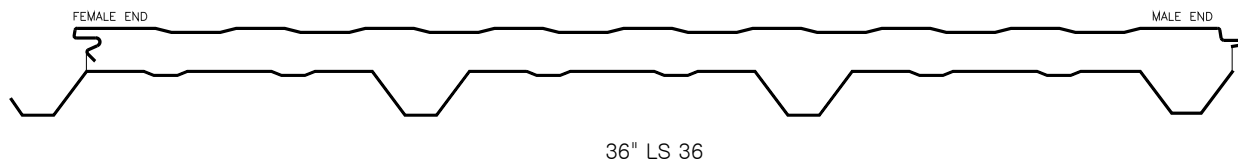
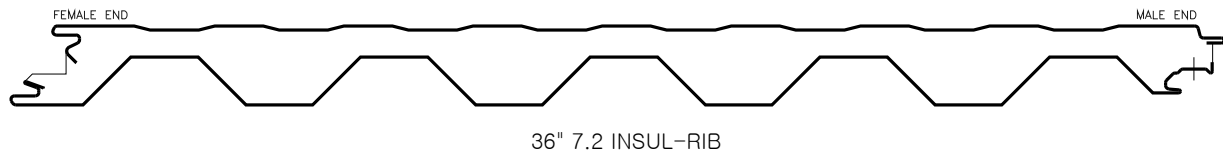
B Point fasteners require a two-step operation: First holes are pre-drilled into the panel and structural support with an appropriate sized bit, then the fastener is inserted into the hole and tightened. B points are typically used to attach panels to medium-heavy gauge supports that are not penetrable by TEK fasteners. It is important that the pre-drilled holes are sized correctly for the fasteners to achieve proper pullout values.

Bulb-Tite® Rivets: Are similar to expansion fasteners, and are used where back fastening of the panels to structural supports is required. Holes must be pre-drilled with a 5/16" diameter. The grip range of the rivets must be matched to the thickness of the structural support to ensure proper fastening.

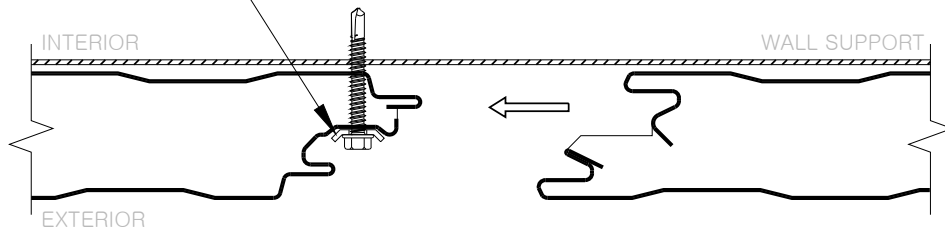
CI-CF-INFO-1	C & I DISCLAIMER
CI-CF-INFO-2	SEALANTS & FASTENERS
CI-CF-JT-01	PANEL PROFILES
CI-CF-JT-02	PANEL PROFILES
CI-CF-JT-03	CF PANEL JOINT DETAILS
CI-CF-FSTN-01A	ATTACHMENT-SIDEJOINT-PRE-ENGINEERED SUPPORT
CI-CF-FSTN-01B	ATTACHMENT-SIDEJOINT-STRUCTURAL STEEL SUPPORT
CI-CF-FSTN-01C	ATTACHMENT-BACK FASTENED W/GIRT CLIPS
CI-CF-FSTN-01D	ATTACHMENT-BACK FASTENED W/RIVETS
CI-CF-BE-06	BASE-OVERHANG W/DRIP TRIM
CI-CF-BE-06-A	BASE-OVERHANG W/DRIP TRIM
CI-CF-BE-07	BASE-OVERHANG W/EDGE TRIM
CI-CF-BE-07-A	BASE-OVERHANG W/EDGE TRIM
CI-CF-BE-08	BASE-OVERHANG W/BASE SUPPORT
CI-CF-BE-08-A	BASE-OVERHANG W/BASE SUPPORT
CI-CF-EB-02	BASE-OVERHANG W/EXTRUSION
CI-CF-EB-02-A	BASE-OVERHANG W/EXTRUSION
CI-CF-BE-02	BASE-OVERHANG W/NOTCHED SLAB
CI-CF-BE-02-A	BASE-OVERHANG W/NOTCHED SLAB
CI-CF-BE-04	BASE-OVERHANG W/NOTCHED SLAB-ALT.
CI-CF-BE-04-A	BASE-OVERHANG W/NOTCHED SLAB-ALT.
CI-CF-EB-01	BASE-OVERHANG W/NOTCHED SLAB, EXTRUSION
CI-CF-EB-01-A	BASE-OVERHANG W/NOTCHED SLAB, EXTRUSION
CI-CF-CE-01	OUTSIDE CORNER W/FLUSH TRIM
CI-CF-CE-01-A	OUTSIDE CORNER W/FLUSH TRIM
CI-CF-EC-01	OUTSIDE CORNER W/TWO PIECE EXTRUSION
CI-CF-EC-01-A	OUTSIDE CORNER W/TWO PIECE EXTRUSION
CI-CF-CE-03	INSIDE CORNER W/FLUSH TRIM
CI-CF-CE-03-A	INSIDE CORNER W/FLUSH TRIM
CI-CF-EC-02	INSIDE CORNER W/TWO PIECE EXTRUSION
CI-CF-EC-02-A	INSIDE CORNER W/TWO PIECE EXTRUSION
CI-CF-HD-01	HEAD W/TWO PIECE TRIM
CI-CF-HD-01-A	HEAD W/TWO PIECE TRIM
CI-CF-EH-01	HEAD W/TWO PIECE EXTRUSION
CI-CF-EH-01-A	HEAD W/TWO PIECE EXTRUSION
CI-CF-JB-01	JAMB W/TWO PIECE TRIM
CI-CF-JB-01-A	JAMB W/TWO PIECE TRIM
CI-CF-JB-02	JAMB W/DEEP TRIM
CI-CF-JB-02-A	JAMB W/DEEP TRIM
CI-CF-EJ-01	JAMB W/EXTRUSION
CI-CF-EJ-01-A	JAMB W/EXTRUSION
CI-CF-SL-01	SILL DETAIL W/FLAT TRIM
CI-CF-SL-01-A	SILL DETAIL W/FLAT TRIM

CI-CF-ES-01	SILL DETAIL W/EXTRUSION
CI-CF-ES-01-A	SILL DETAIL W/EXTRUSION
CI-CF-HD-02	O.H. DOOR HEAD W/TWO PIECE TRIM
CI-CF-HD-02-A	O.H. DOOR HEAD W/TWO PIECE TRIM
CI-CF-EH-02	O.H. DOOR HEAD W/TWO PIECE EXTRUSION
CI-CF-EH-02-A	O.H. DOOR HEAD W/TWO PIECE EXTRUSION
CI-CF-DJ-01	O.H. DOOR JAMB W/TWO PIECE TRIM
CI-CF-DJ-01-A	O.H. DOOR JAMB W/TWO PIECE TRIM
CI-CF-ED-01	O.H. DOOR JAMB W/EXTRUSION
CI-CF-ED-01-A	O.H. DOOR JAMB W/EXTRUSION
CI-CF-T-01	TRIM LAPS AT FRAMED OPENING
CI-CF-E-01	EXTRUSION AT FRAMED OPENING
CI-CF-SJ-01	STACK JOINT W/TRIM
CI-CF-SJ-01-A	STACK JOINT W/TRIM
CI-CF-ESJ-01	STACK JOINT W/EXTRUSION
CI-CF-ESJ-01-A	STACK JOINT W/EXTRUSION
CI-CF-VE-01	EAVE DETAIL-CONVENTIONAL ROOF
CI-CF-VE-01-A	EAVE DETAIL-CONVENTIONAL ROOF
CI-CF-TP-01	PARAPET (SUPPORTED) W/TRIM
CI-CF-TP-01-A	PARAPET (SUPPORTED) W/TRIM
CI-CF-EP-02	PARAPET (SUPPORTED) W/EXTRUSION
CI-CF-EP-02-A	PARAPET (SUPPORTED) W/EXTRUSION
CI-CF-EL-B	TRIM END LAP-BASE
CI-CF-EL-C	TRIM END LAP-CORNER
CI-CF-EL-H	TRIM END LAP-TWO PIECE HEAD
CI-CF-EL-J	TRIM END LAP-TWO PIECE JAMB
CI-CF-EL-S	TRIM END LAP-SILL
CI-CF-EL-SJ	TRIM END LAP-STACK JOINT
CI-CF-2-EXT	2" EXTRUSIONS
CI-CF-2.5 EXT	2.5" EXTRUSIONS
CI-CF-3-EXT	3" EXTRUSIONS
CI-CF-4-EXT	4" EXTRUSIONS
CI-CF-FP 1-2	FASTENING PATTERNS 1-2
CI-CF-FP 3-4	FASTENING PATTERNS 3-4
CI-CF-FP 5-6	FASTENING PATTERNS 5-6
CI-CF-FP 7-8	FASTENING PATTERNS 7-8
CI-CF-FP 9-10	FASTENING PATTERNS 9-10
CI-CF-PEN-1	PIPE PENETRATION - FIELD OF PANEL
CI-CF-PEN-2	PIPE PENETRATION - NOTCHED PANEL
CI-CF-PEN-3	PIPE PENETRATION - AT PANEL JOINT
CI-CF-PEN-4	PIPE PENETRATION - WEATHER SEALS AT JOINT
CI-CF-PEN-5	PIPE PENETRATION - FLASHING
CI-CF-PEN-6	BEAM PENETRATION
CI-CF-PEN-7	BEAM PENETRATION - FLASHING

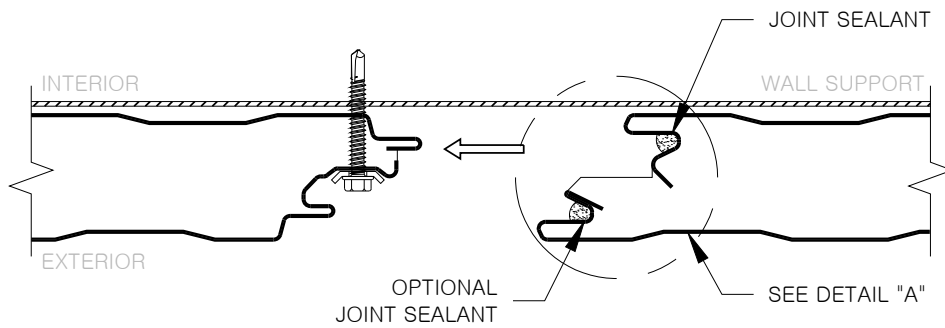




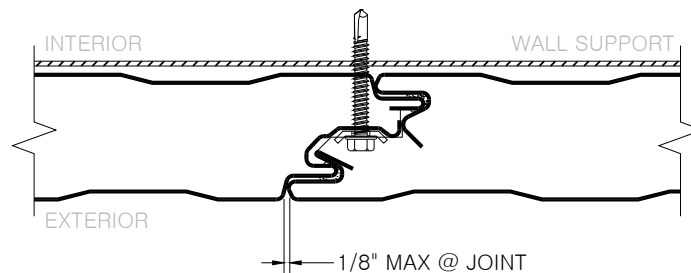
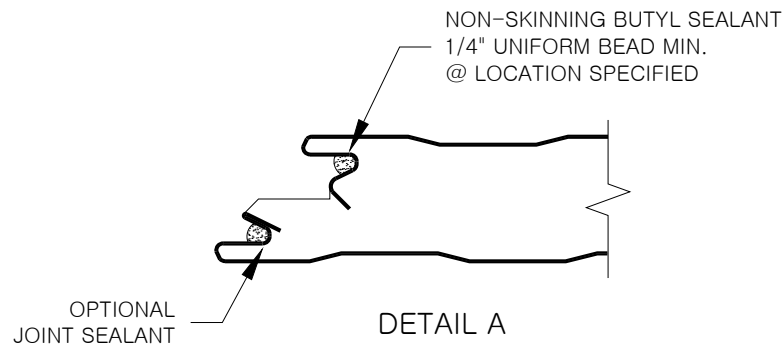
14 GA. PANEL CLIP  
W/ 1/4" HWH FASTENERS  
@ EACH WALL SUPPORT

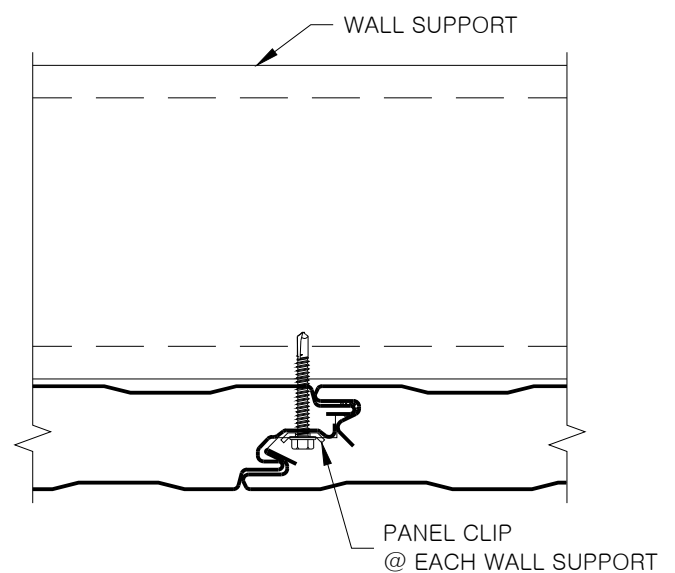
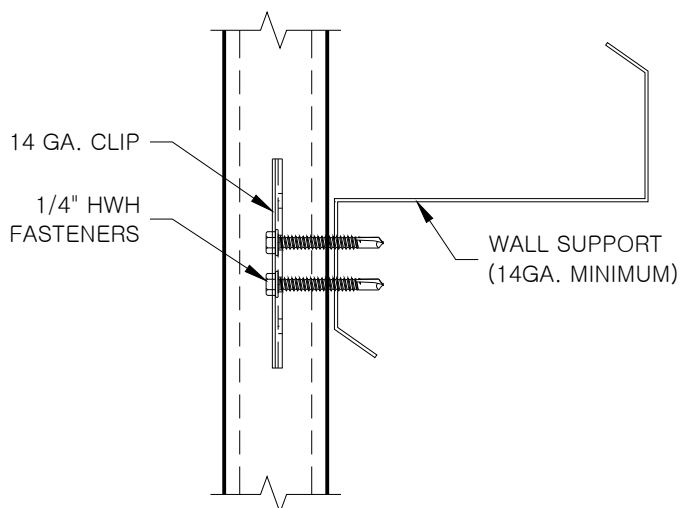
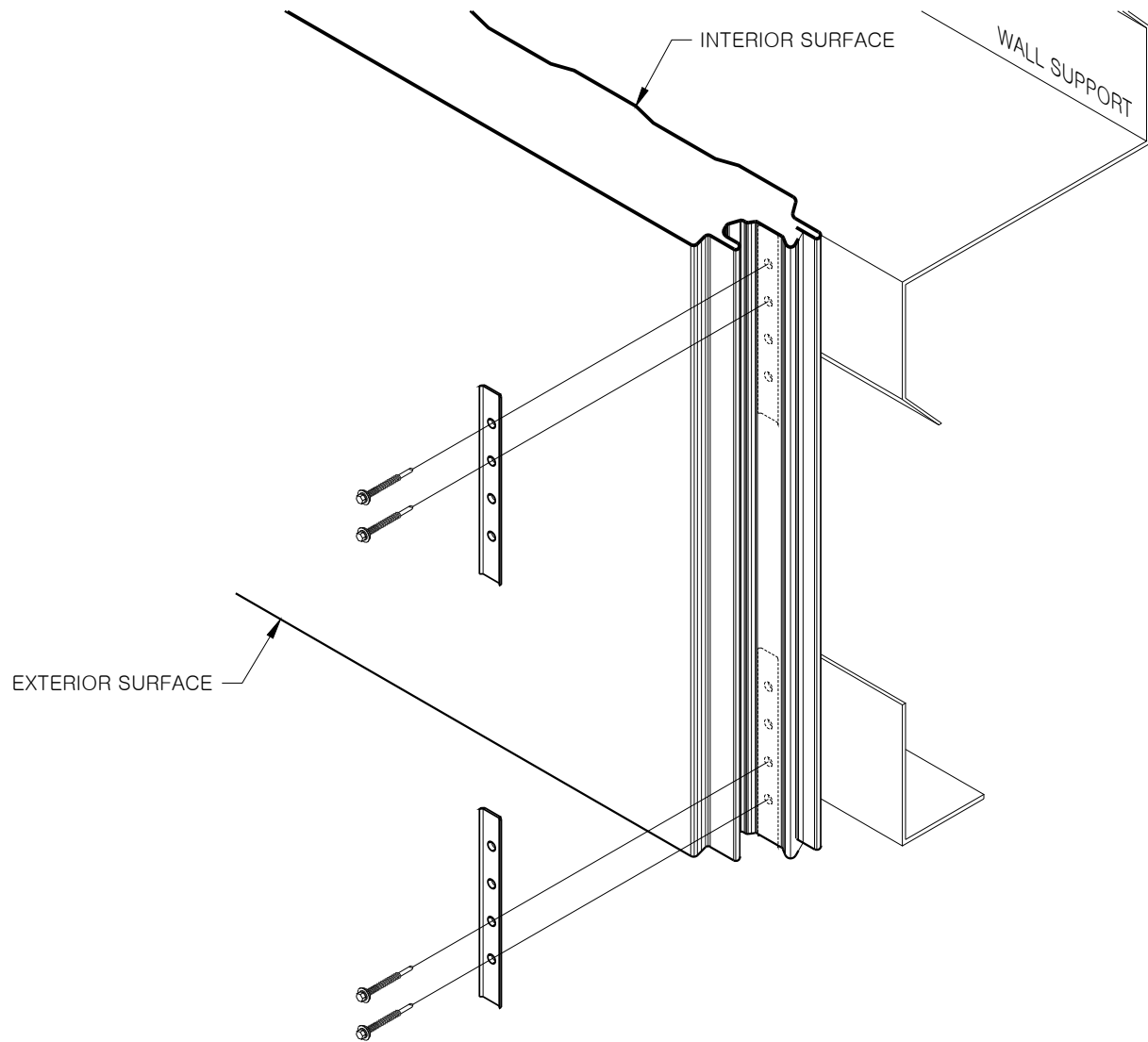


CLIP AND FASTENER ASSEMBLY



JOINT SEALANT APPLICATION





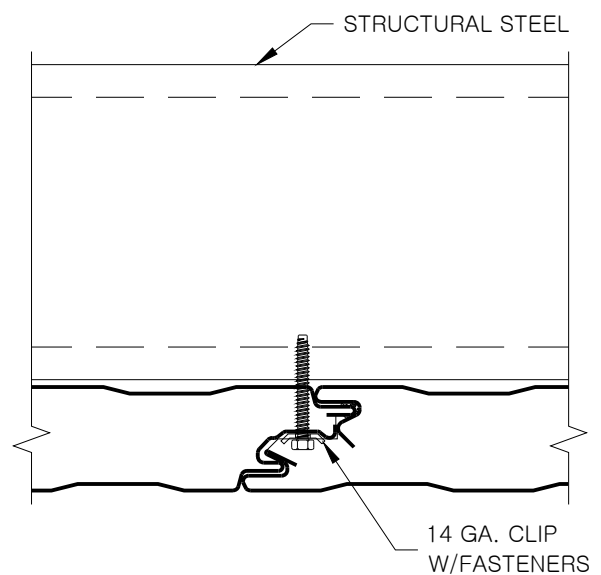
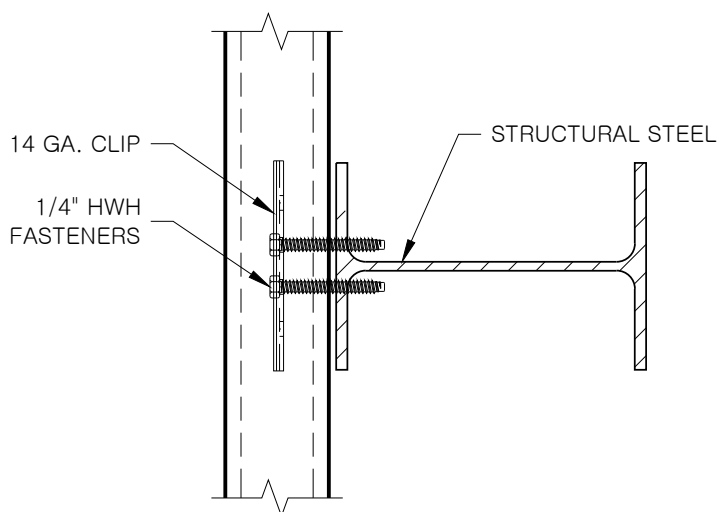
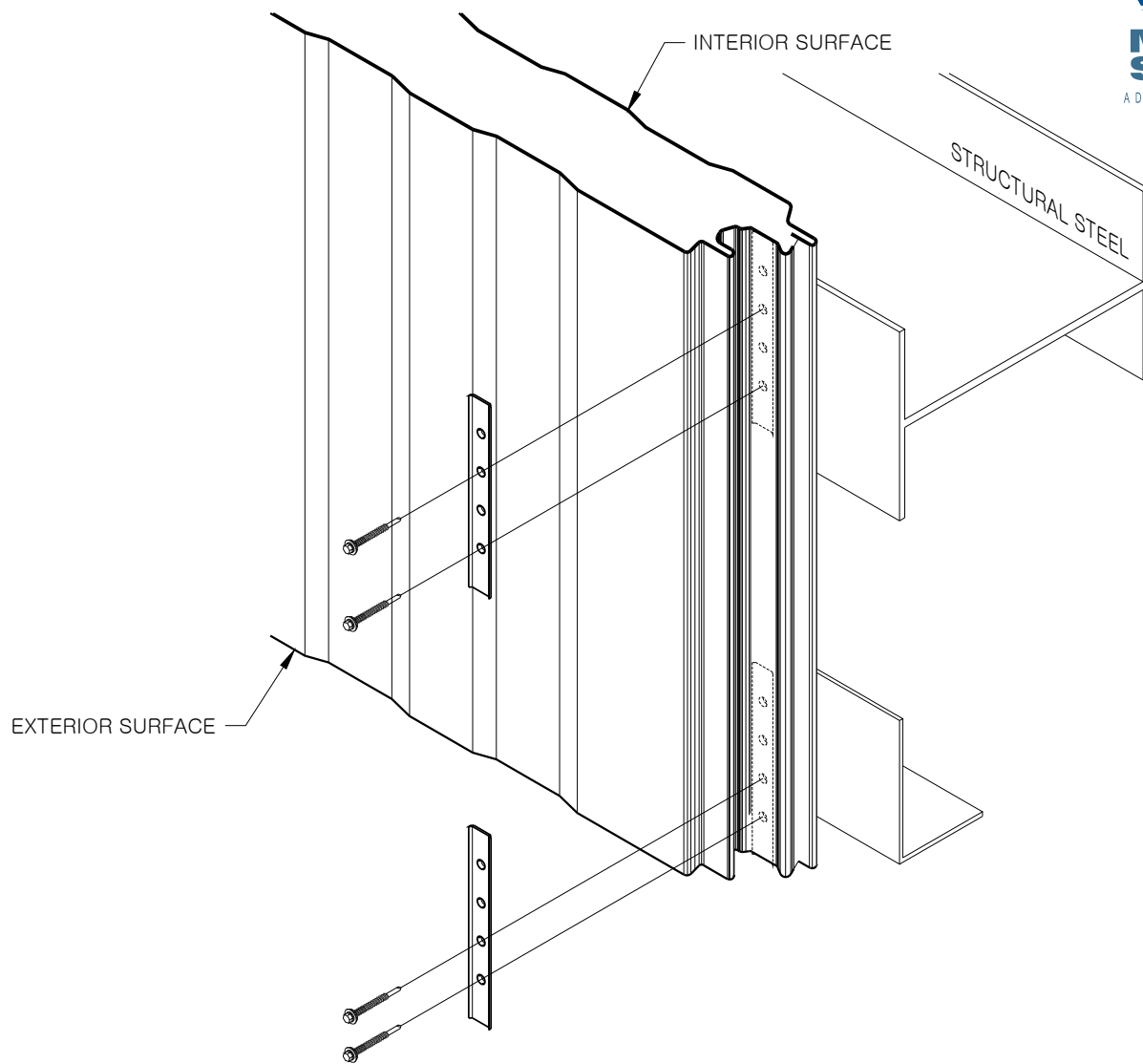
COMMERCIAL &  
INDUSTRIAL

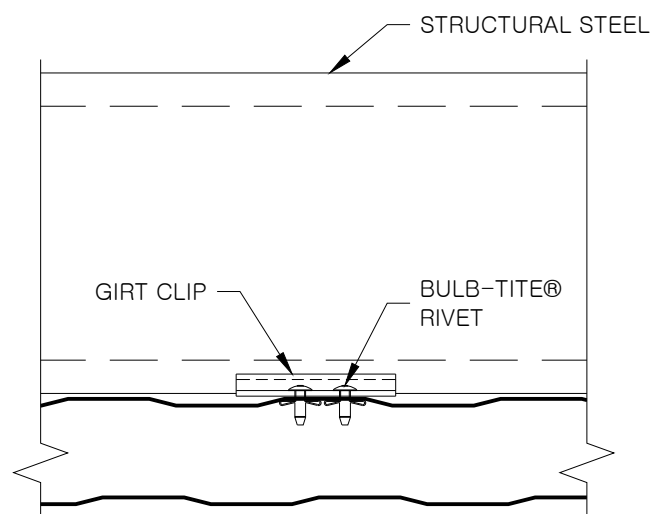
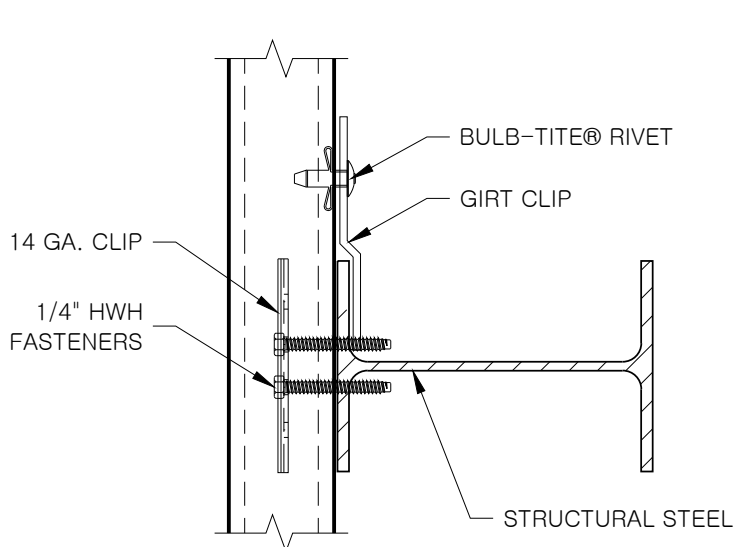
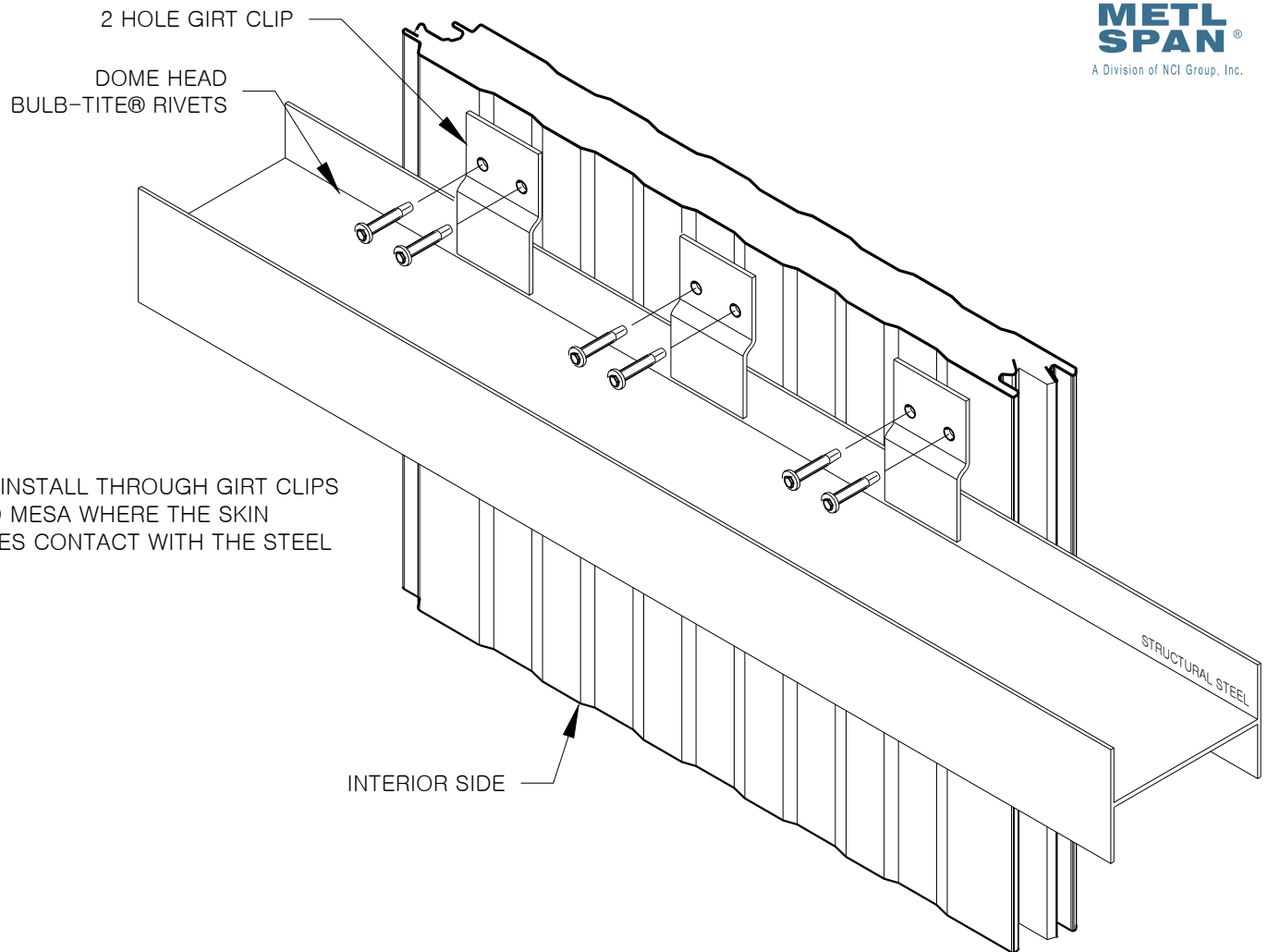
ATTACHMENT – SIDEJOINT –  
PRE-ENGINEERED SUPPORT

CI-CF-FSTN-01A

DATE: Jul '19







DOME HEAD  
BULB-TITE® RIVETS

\* INSTALL THROUGH GIRT  
FLANGE INTO MESA WHERE THE  
SKIN MAKES CONTACT WITH STEEL

INTERIOR SIDE

WALL SUPPORT

14 GA. CLIP

1/4" HWH  
FASTENERS

BULB-TITE® RIVET

WALL SUPPORT

WALL SUPPORT

BULB-TITE® RIVET

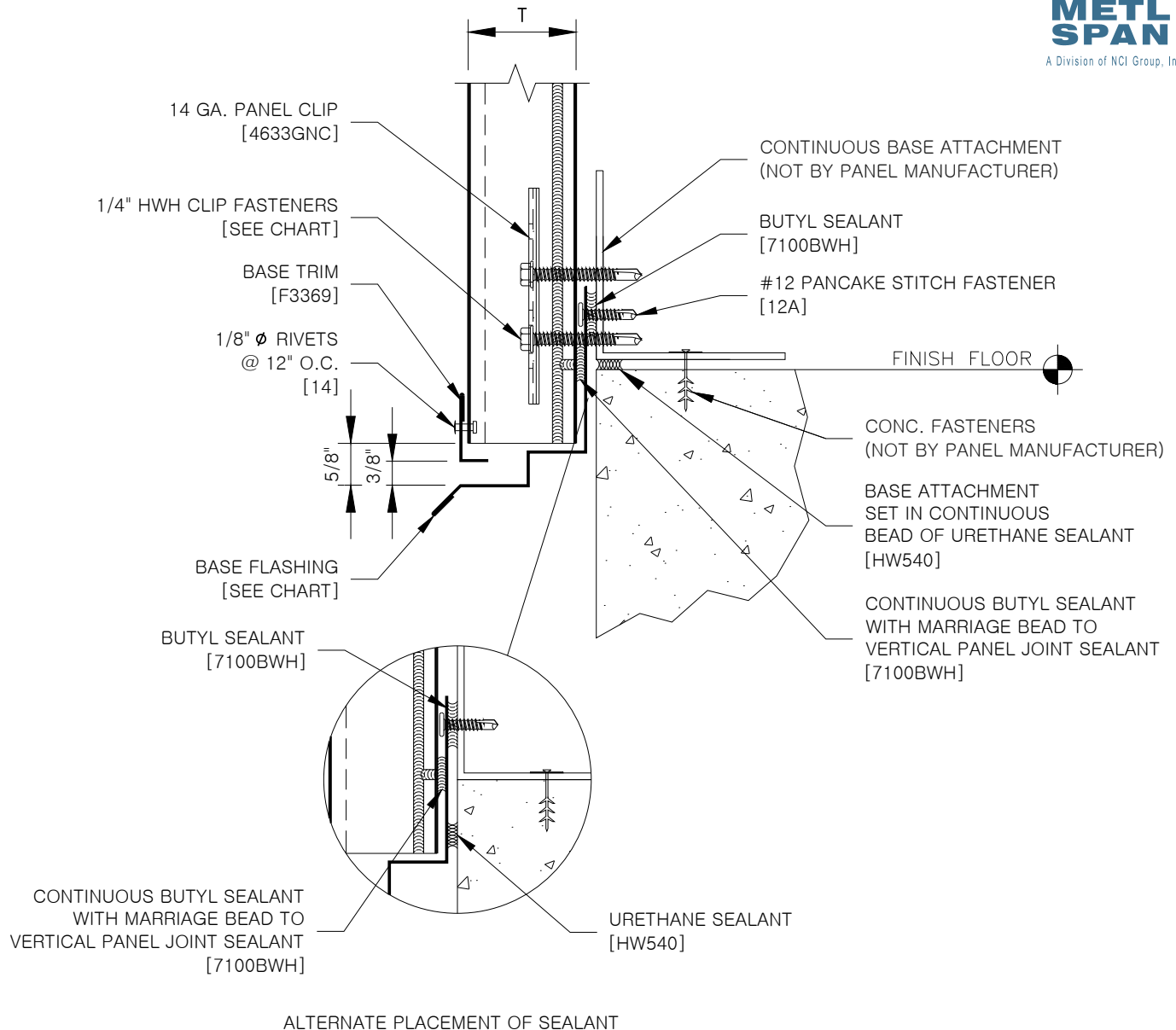
14 GA. CLIP  
W/FASTENERS

COMMERCIAL &  
INDUSTRIAL

ATTACHMENT – BACK FASTENED  
W/ RIVETS

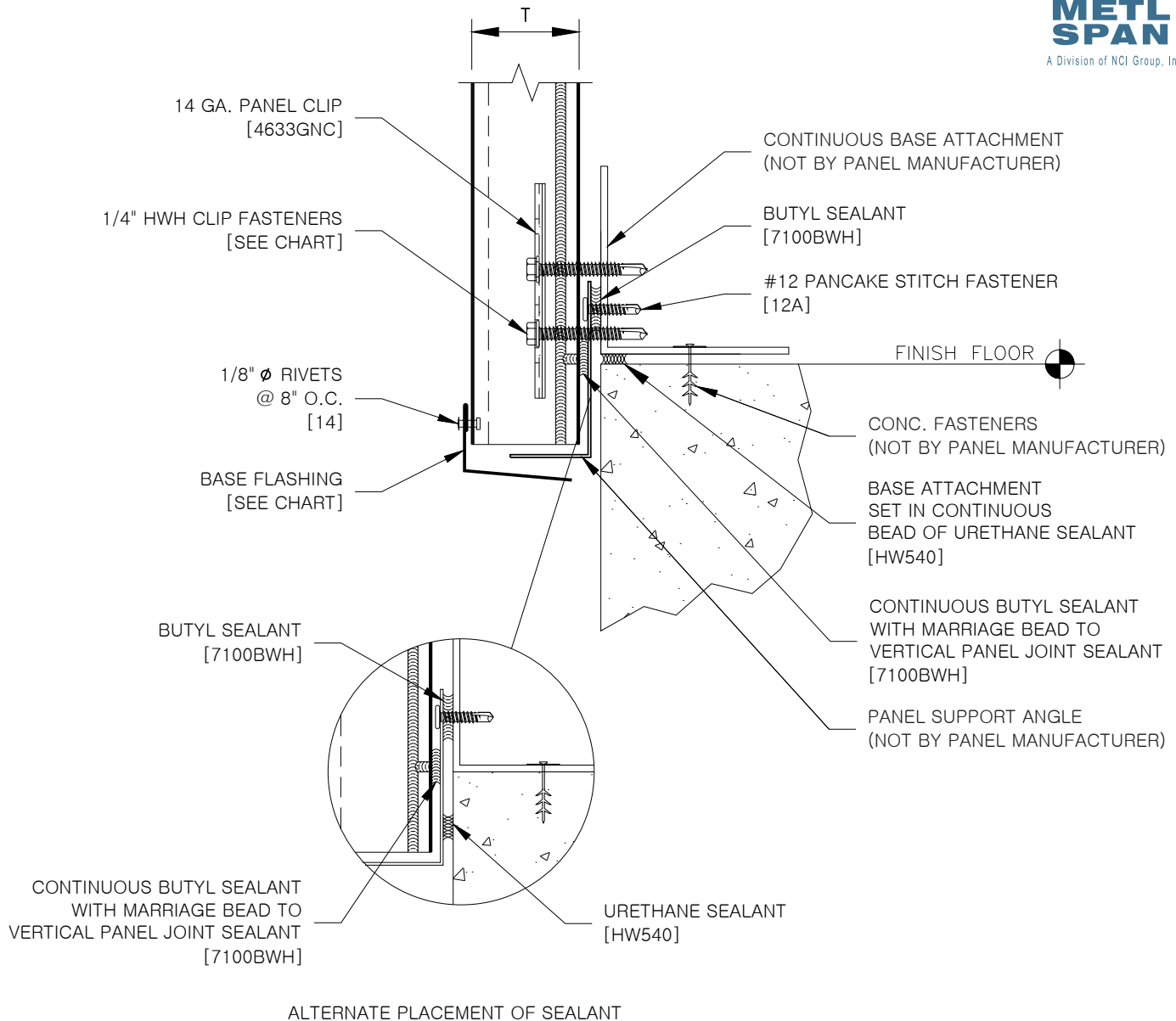
CI-CF-FSTN-01D

DATE: Jul '19



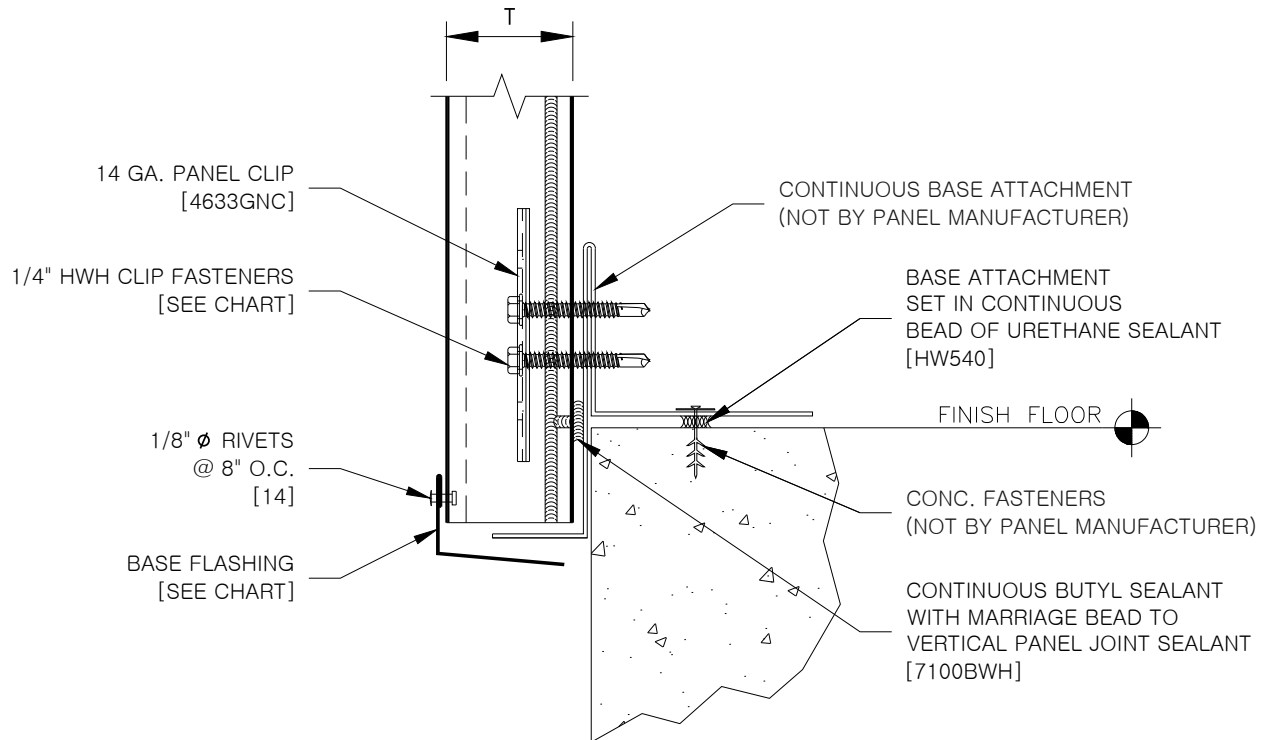
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	BASE FLASHING	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5001	1616PNC	1724PNC	1816PNC
2.5"	F5013	1624PNC	1732PNC	1824PNC
2.75"	F5071	1624PNC	1732PNC	1824PNC
3"	F5034	1624PNC	1732PNC	1824PNC
4"	F5050	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		BASE – OVERHANG W/ DRIP TRIM		CI-CF-BE-06-A DATE: Jul '19



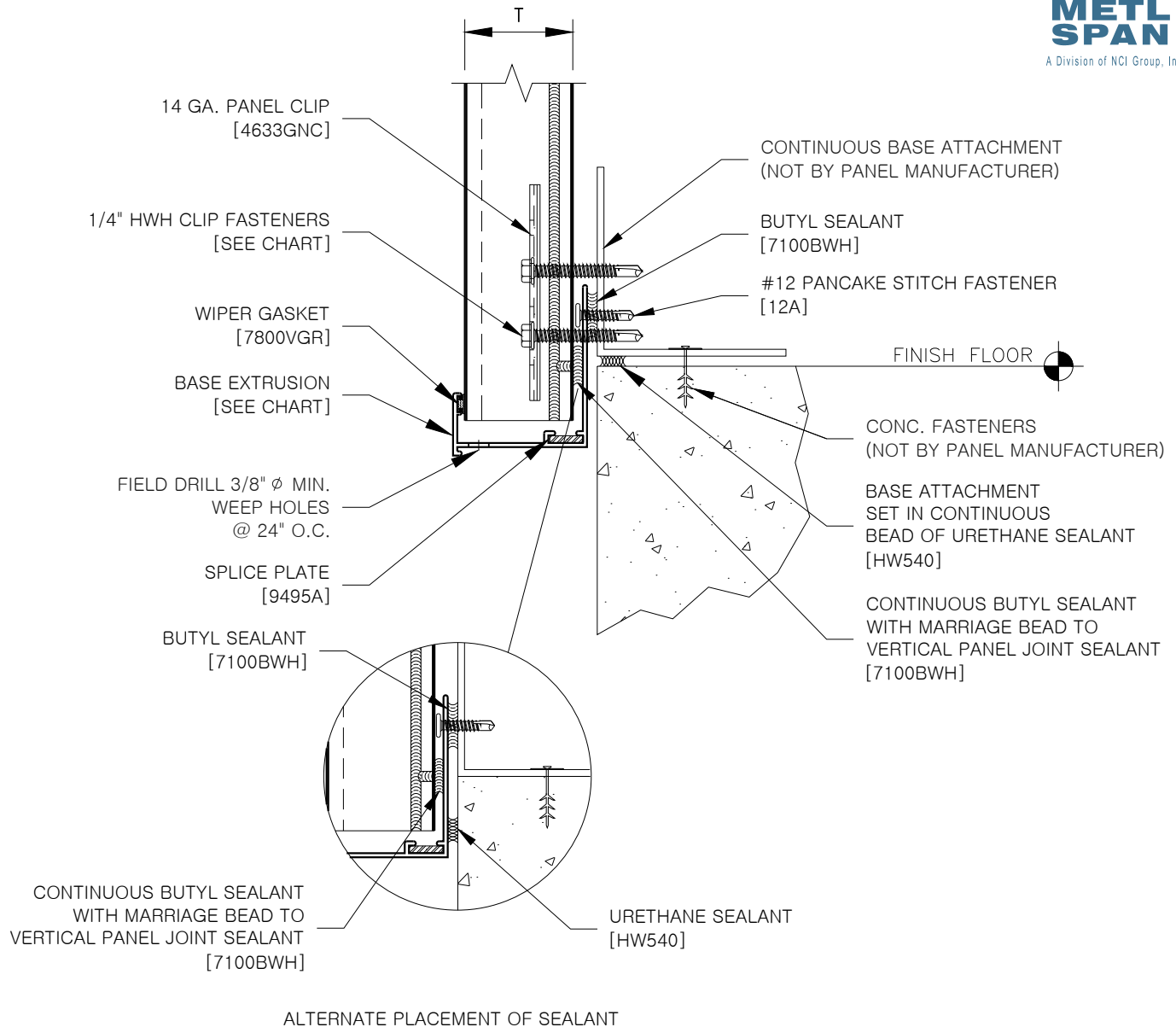
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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	BASE FLASHING	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5076	1616PNC	1724PNC	1816PNC
2.5"	F5077	1624PNC	1732PNC	1824PNC
2.75"	F5078	1624PNC	1732PNC	1824PNC
3"	F5079	1624PNC	1732PNC	1824PNC
4"	F5080	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		BASE – OVERHANG W/ EDGE TRIM		CI-CF-BE-07-A DATE: Jul '19



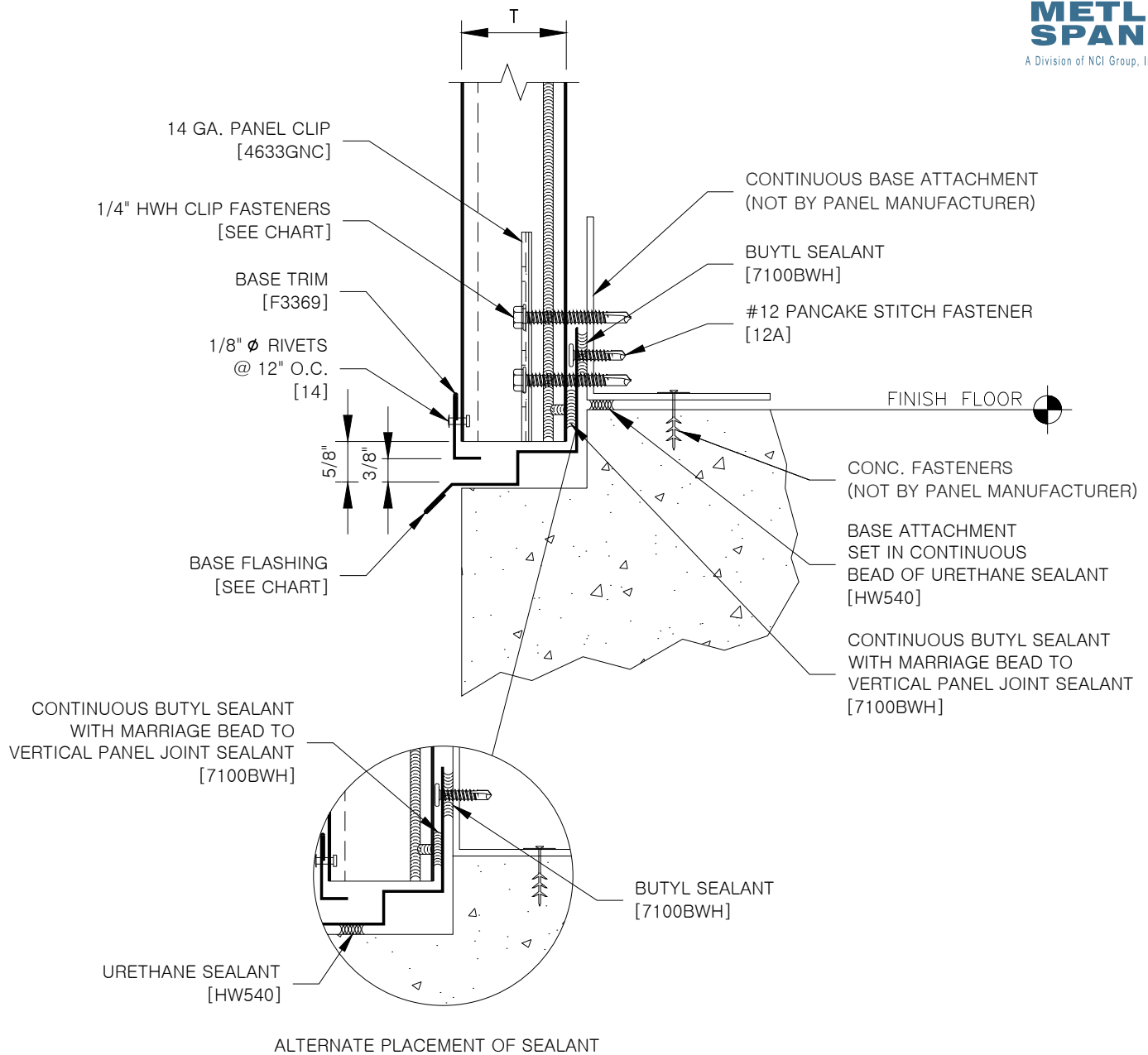
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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	BASE FLASHING	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5076	1616PNC	1724PNC	1816PNC
2.5"	F5077	1624PNC	1732PNC	1824PNC
2.75"	F5078	1624PNC	1732PNC	1824PNC
3"	F5079	1624PNC	1732PNC	1824PNC
4"	F5080	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		BASE – OVERHANG W/ BASE SUPPORT		CI-CF-BE-08-A DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

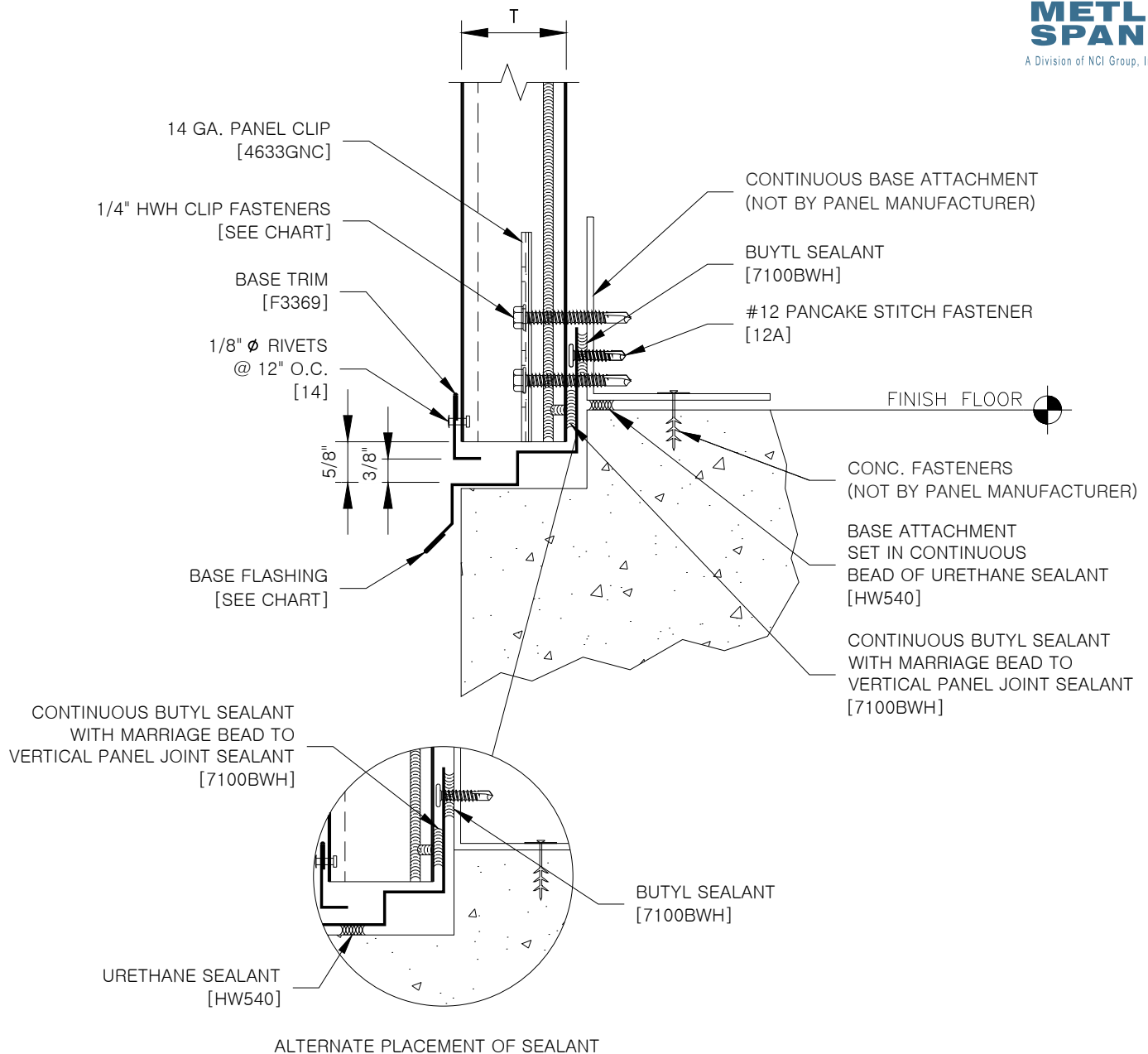
T	BASE EXTRUSION	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	9405A	1616PNC	1724PNC	1816PNC
2.5"	9406A	1624PNC	1732PNC	1824PNC
3"	9407A	1624PNC	1732PNC	1824PNC
4"	9404A	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		BASE – OVERHANG W/ EXTRUSION		CI-CF-EB-02-A DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

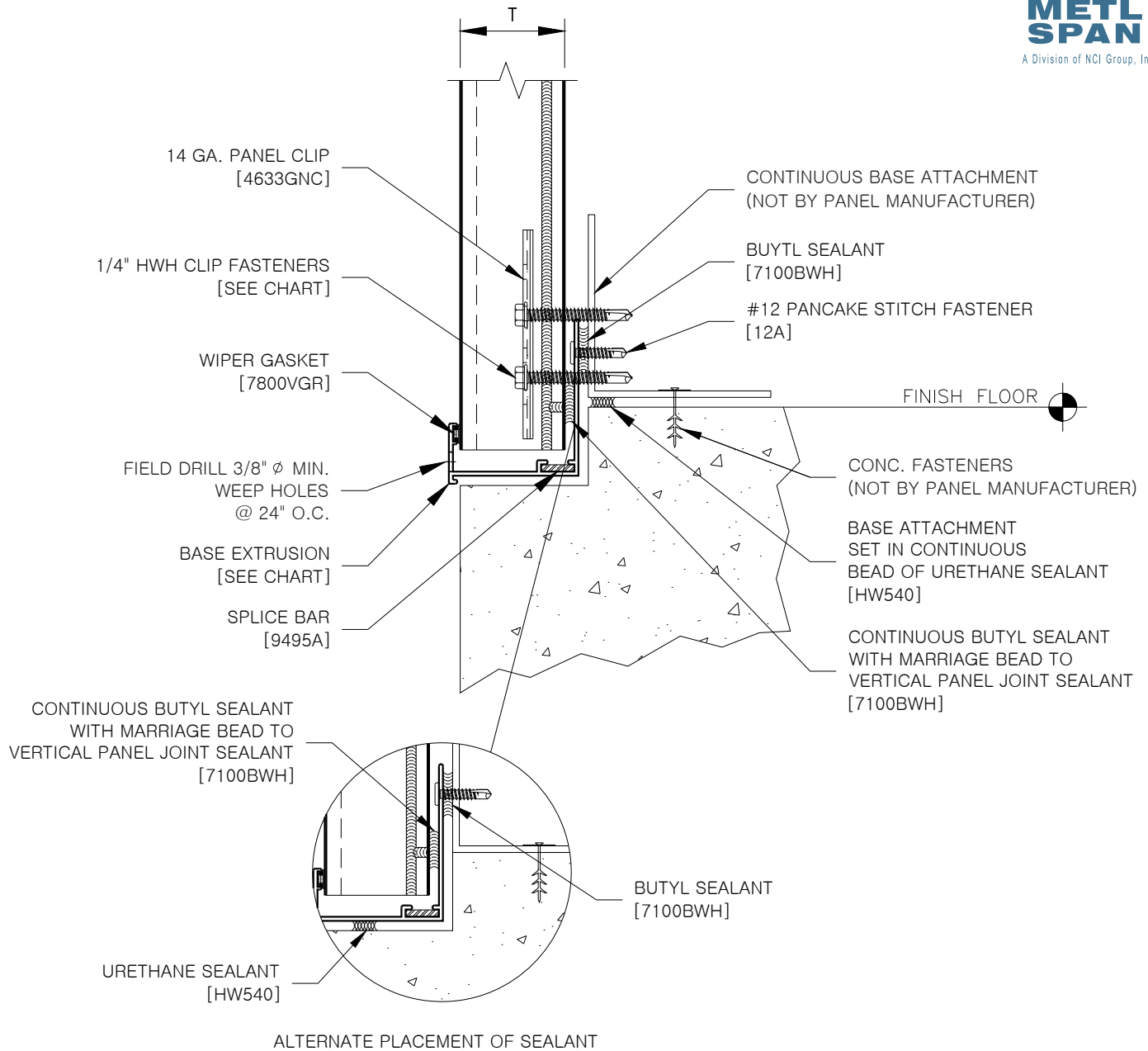
T	BASE FLASHING	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5001	1616PNC	1724PNC	1816PNC
2.5"	F5013	1624PNC	1732PNC	1824PNC
2.75"	F5071	1624PNC	1732PNC	1824PNC
3"	F5034	1624PNC	1732PNC	1824PNC
4"	F5050	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		BASE – OVERHANG W/ NOTCHED SLAB		CI-CF-BE-02-A DATE: Jul '19





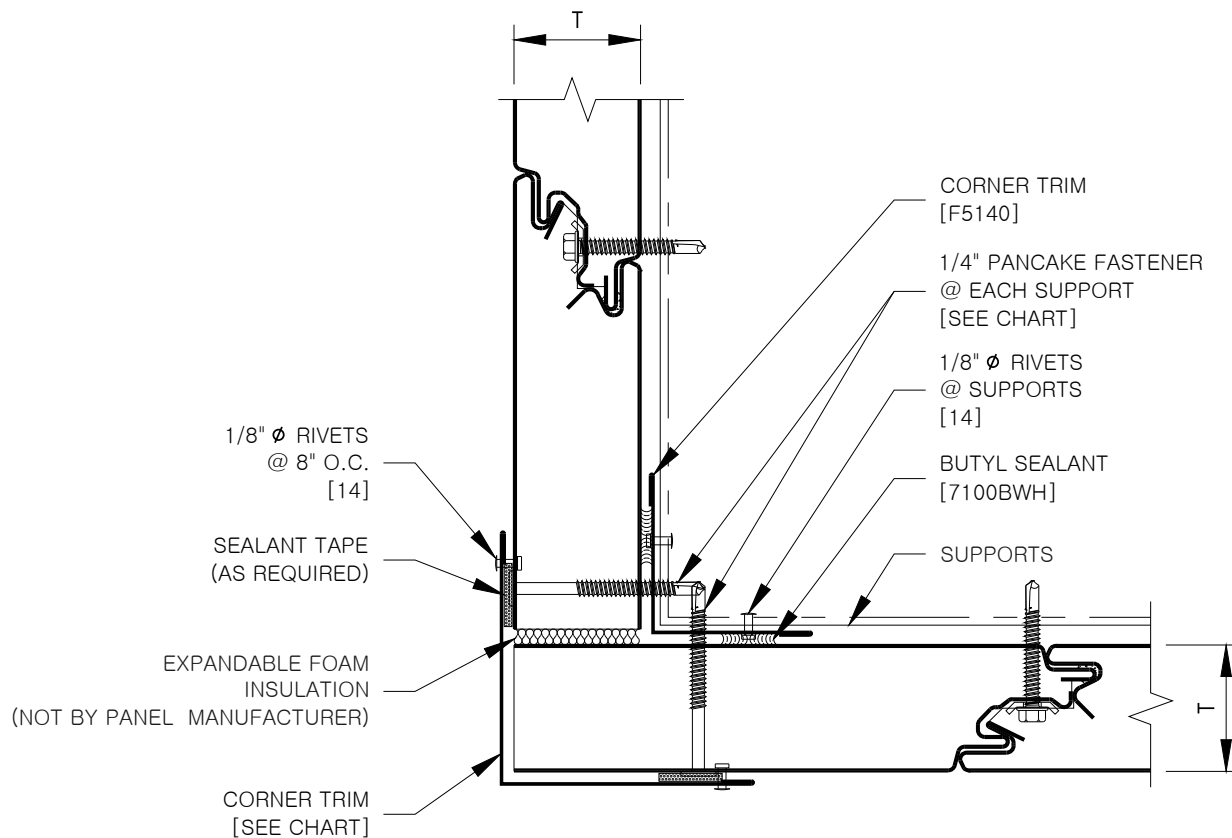
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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	BASE FLASHING	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5002	1616PNC	1724PNC	1816PNC
2.5"	F5014	1624PNC	1732PNC	1824PNC
2.75"	F5072	1624PNC	1732PNC	1824PNC
3"	F5032	1624PNC	1732PNC	1824PNC
4"	F5053	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		BASE - OVERHANG W/ NOTCHED SLAB - ALT.		CI-CF-BE-04-A DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	BASE EXTRUSION	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	9405A	1616PNC	1724PNC	1816PNC
2.5"	9406A	1624PNC	1732PNC	1824PNC
3"	9407A	1624PNC	1732PNC	1824PNC
4"	9404A	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		BASE - OVERHANG W/ NOTCHED SLAB, EXTRUSION		CI-CF-EB-01-A DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

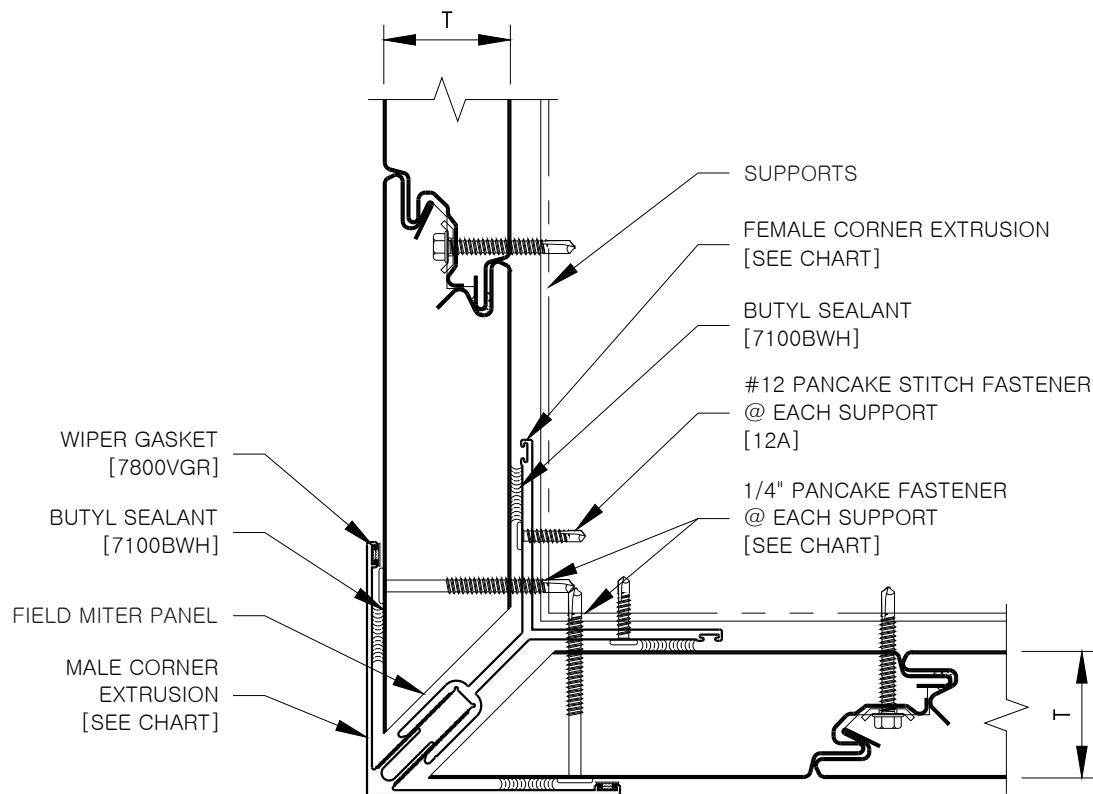
T	CORNER TRIM	PANCAKE HEAD TYPE 3
2"	F5102	1424PNC
2.5"	F5103	1432PNC
2.75"	F5105	1432PNC
3"	F5104	1432PNC
4"	F5101	1440PNC

COMMERCIAL &  
INDUSTRIAL

OUTSIDE CORNER  
W/ FLUSH TRIM

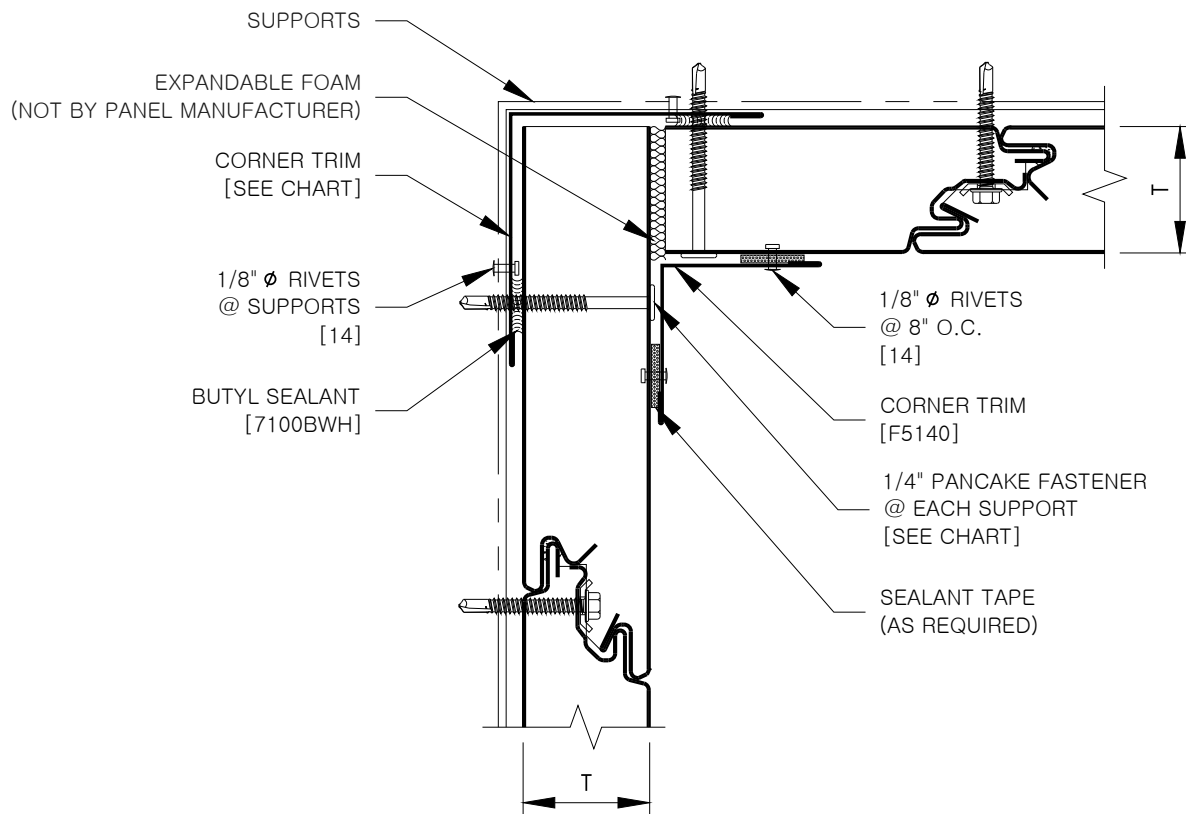
CI-CF-CE-01-A

DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	MALE CORNER EXTRUSION	FEMALE CORNER EXTRUSION	PANCAKE HEAD TYPE 3	
2"	9425ANC	9438ANC	1424PNC	
2.5"	9429ANC	9437ANC	1432PNC	
3"	9429ANC	9436ANC	1432PNC	
4"	9429ANC	9434ANC	1440PNC	
COMMERCIAL & INDUSTRIAL		OUTSIDE CORNER W/ TWO PIECE EXTRUSION		CI-CF-EC-01-A DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

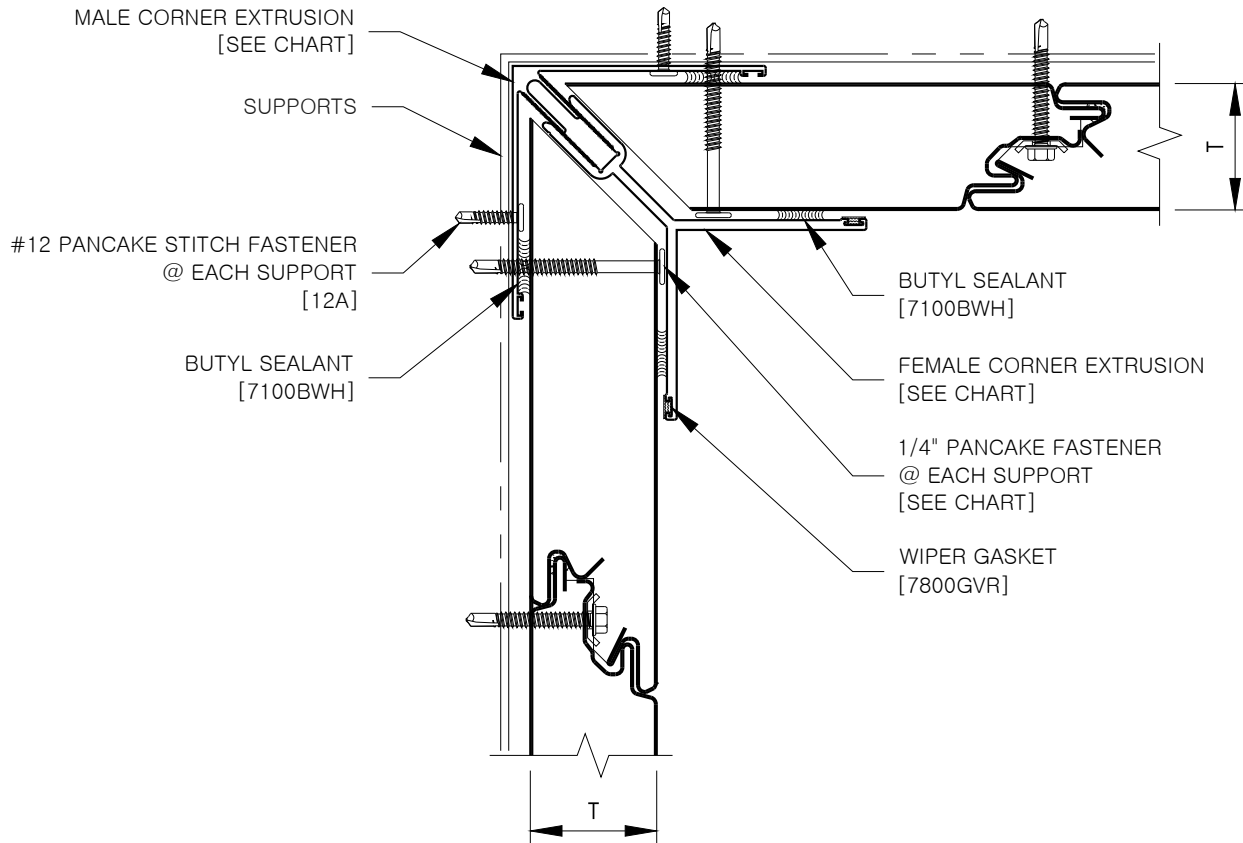
T	CORNER TRIM	PANCAKE HEAD TYPE 3
2"	F5102	1424PNC
2.5"	F5103	1432PNC
2.75"	F5105	1432PNC
3"	F5104	1432PNC
4"	F5101	1440PNC

COMMERCIAL &  
INDUSTRIAL

INSIDE CORNER  
W/ FLUSH TRIM

CI-CF-CE-03-A

DATE: Jul '19



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 CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	MALE CORNER EXTRUSION	FEMALE CORNER EXTRUSION	PANCAKE HEAD TYPE 3
2"	9425ANC	9438ANC	1424PNC
2.5"	9429ANC	9437ANC	1432PNC
3"	9429ANC	9436ANC	1432PNC
4"	9429ANC	9434ANC	1440PNC

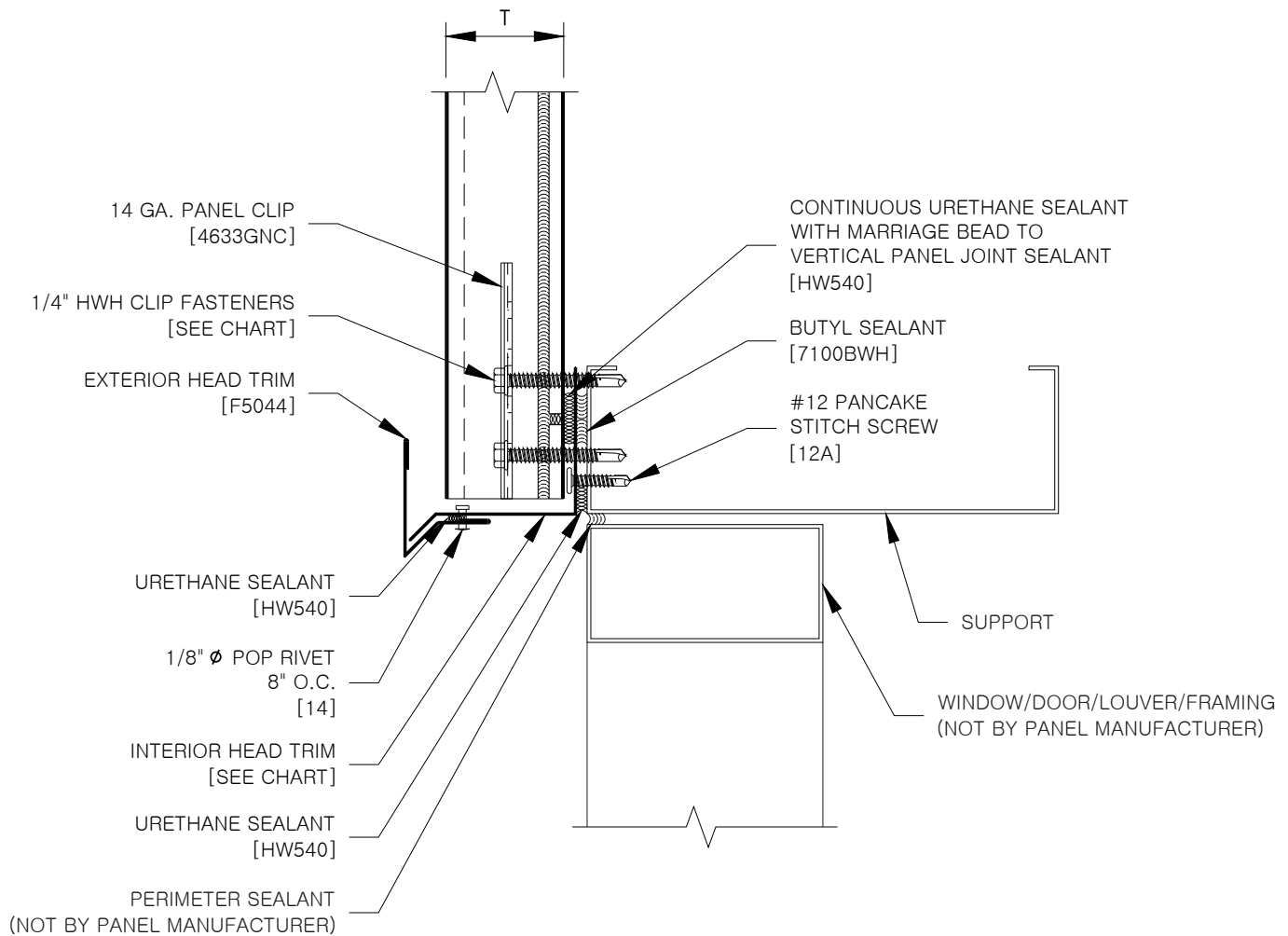
COMMERCIAL &  
INDUSTRIAL

INSIDE CORNER  
W/ TWO PIECE EXTRUSION

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CI-CF-EC-02-A

DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	INTERIOR HEAD TRIM	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5045	1616PNC	1724PNC	1816PNC
2.5"	F5046	1624PNC	1732PNC	1824PNC
2.75"	F5047	1624PNC	1732PNC	1824PNC
3"	F5048	1624PNC	1732PNC	1824PNC
4"	F5049	1632PNC	1740PNC	1832PNC

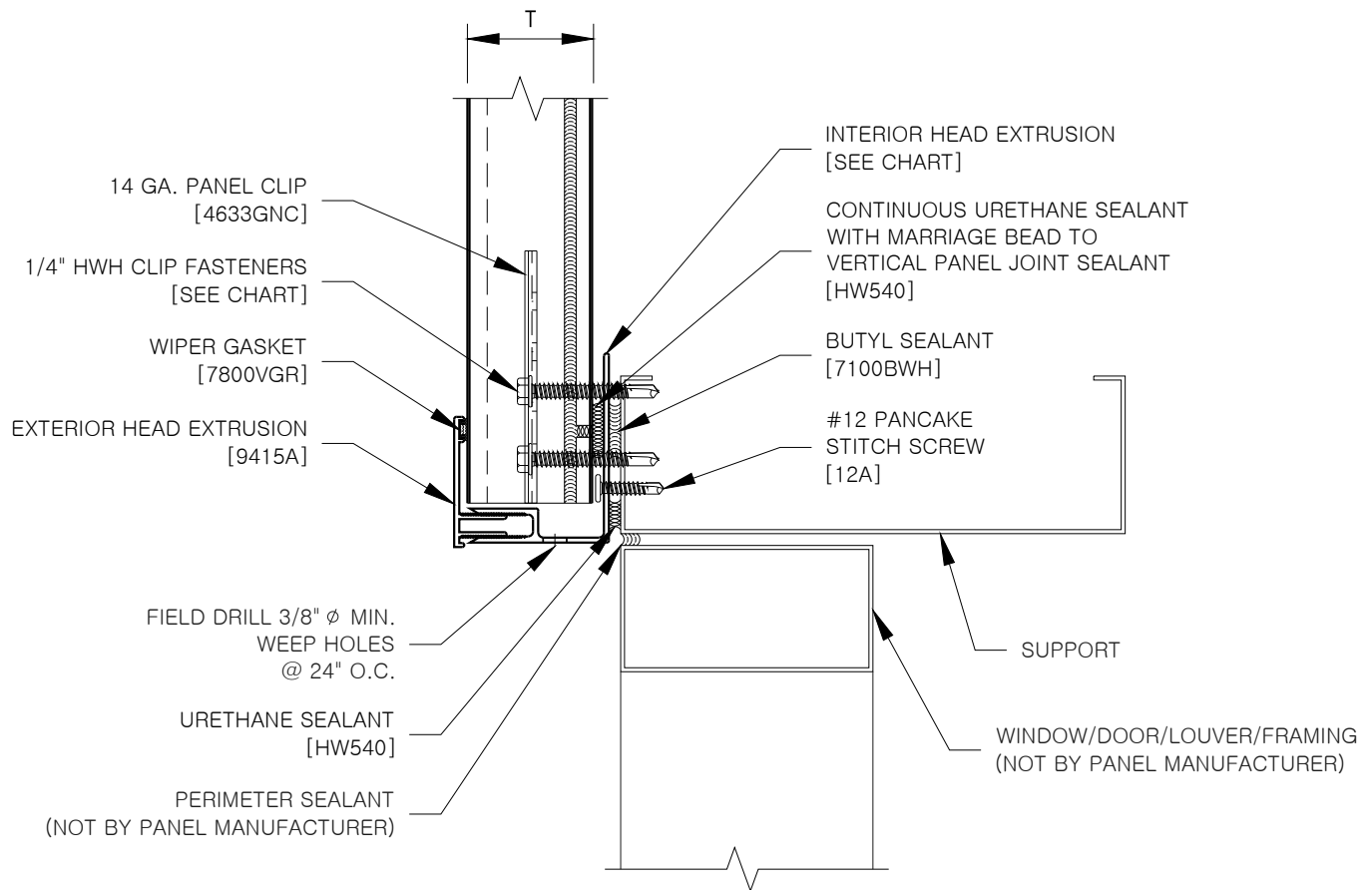
COMMERCIAL &  
INDUSTRIAL

HEAD W/ TWO PIECE TRIM

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CI-CF-HD-01-A

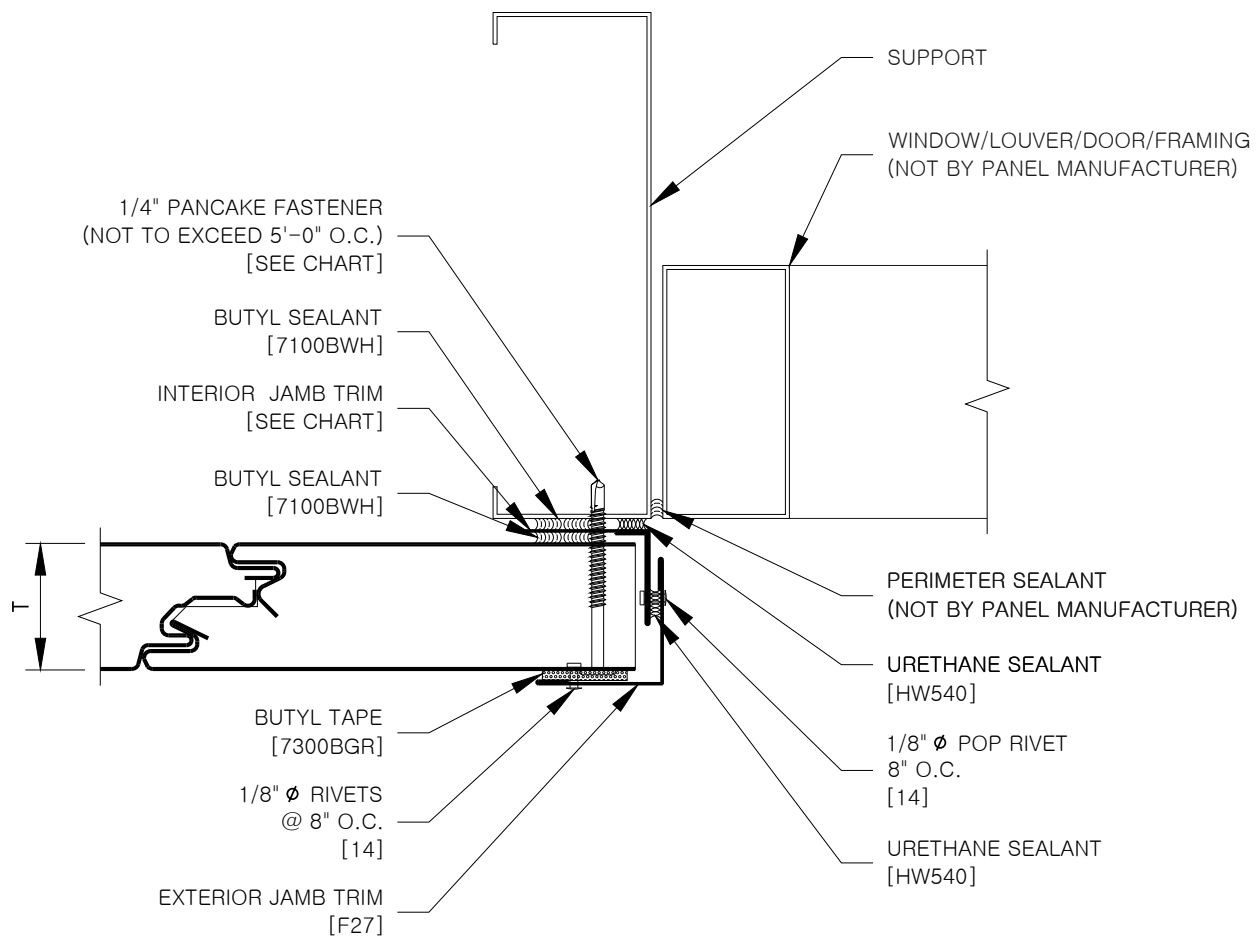
DATE: Jul '19



REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	INTERIOR HEAD EXTRUSION	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	9420A	1616PNC	1724PNC	1816PNC
2.5"	9421A	1624PNC	1732PNC	1824PNC
3"	9422A	1624PNC	1732PNC	1824PNC
4"	9423A	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		HEAD W/ TWO PIECE EXTRUSION		CI-CF-EH-01-A
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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	INTERIOR JAMB TRIM	PANCAKE HEAD TYPE 3
2"	F5442	1424PNC
2.5"	F5442	1432PNC
2.75"	F5442	1432PNC
3"	F5443	1432PNC
4"	FF443	1440PNC

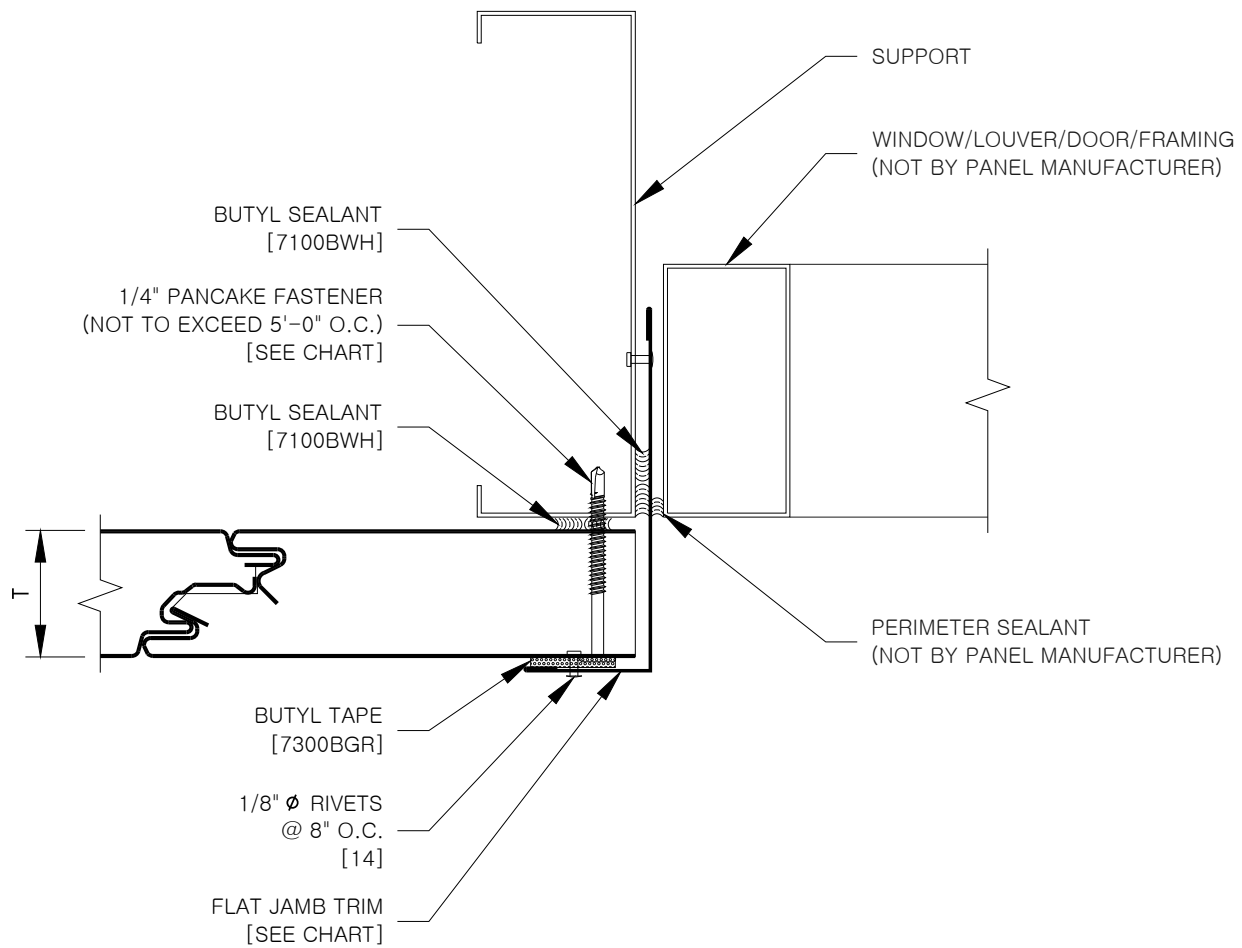
COMMERCIAL &  
INDUSTRIAL

JAMB W/ TWO PIECE TRIM

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DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	FLAT JAMB TRIM	PANCAKE HEAD TYPE 3
2"	F5390	1424PNC
2.5"	F5392	1432PNC
2.75"	F5394	1432PNC
3"	F5396	1432PNC
4"	F5398	1440PNC

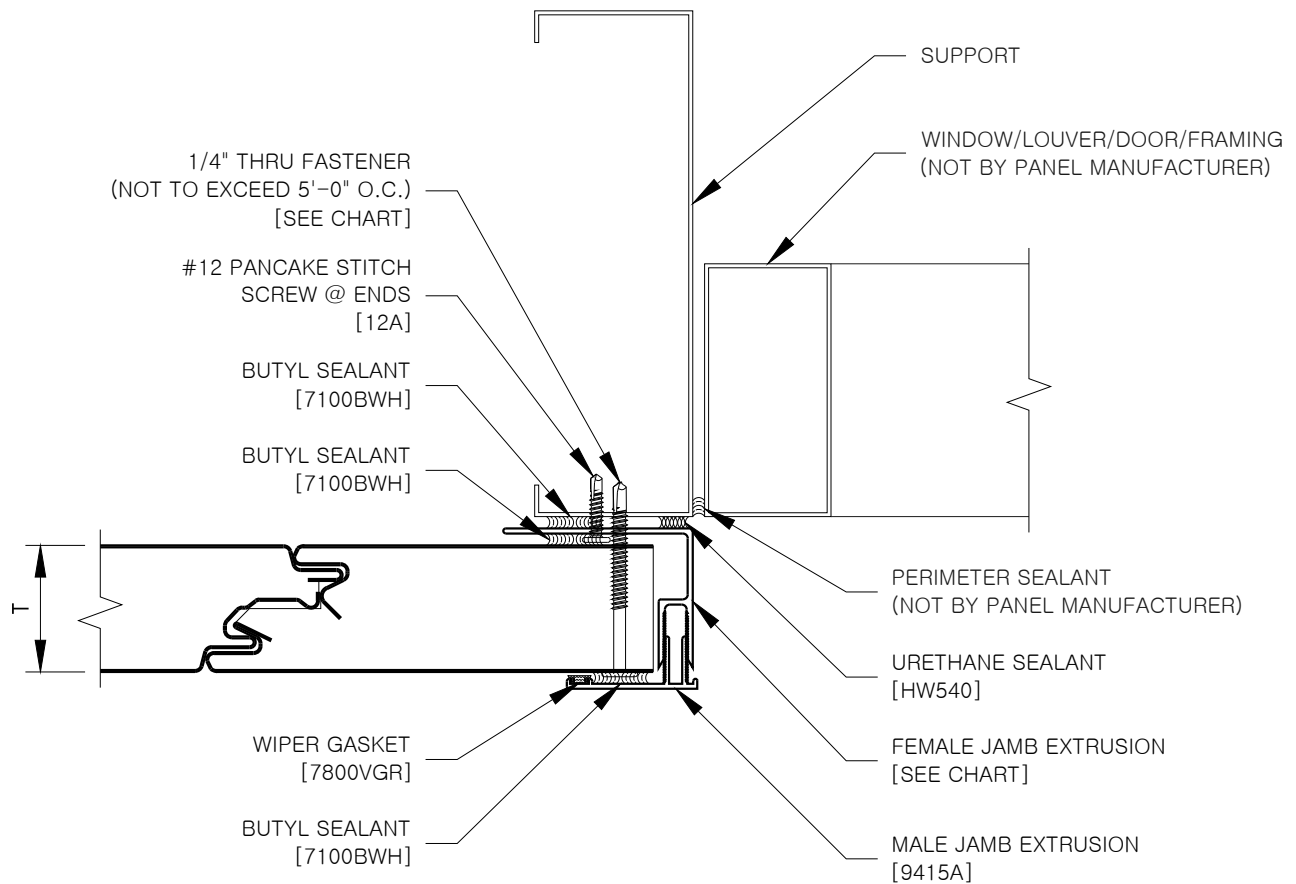
COMMERCIAL &  
INDUSTRIAL

JAMB W/ DEEP TRIM

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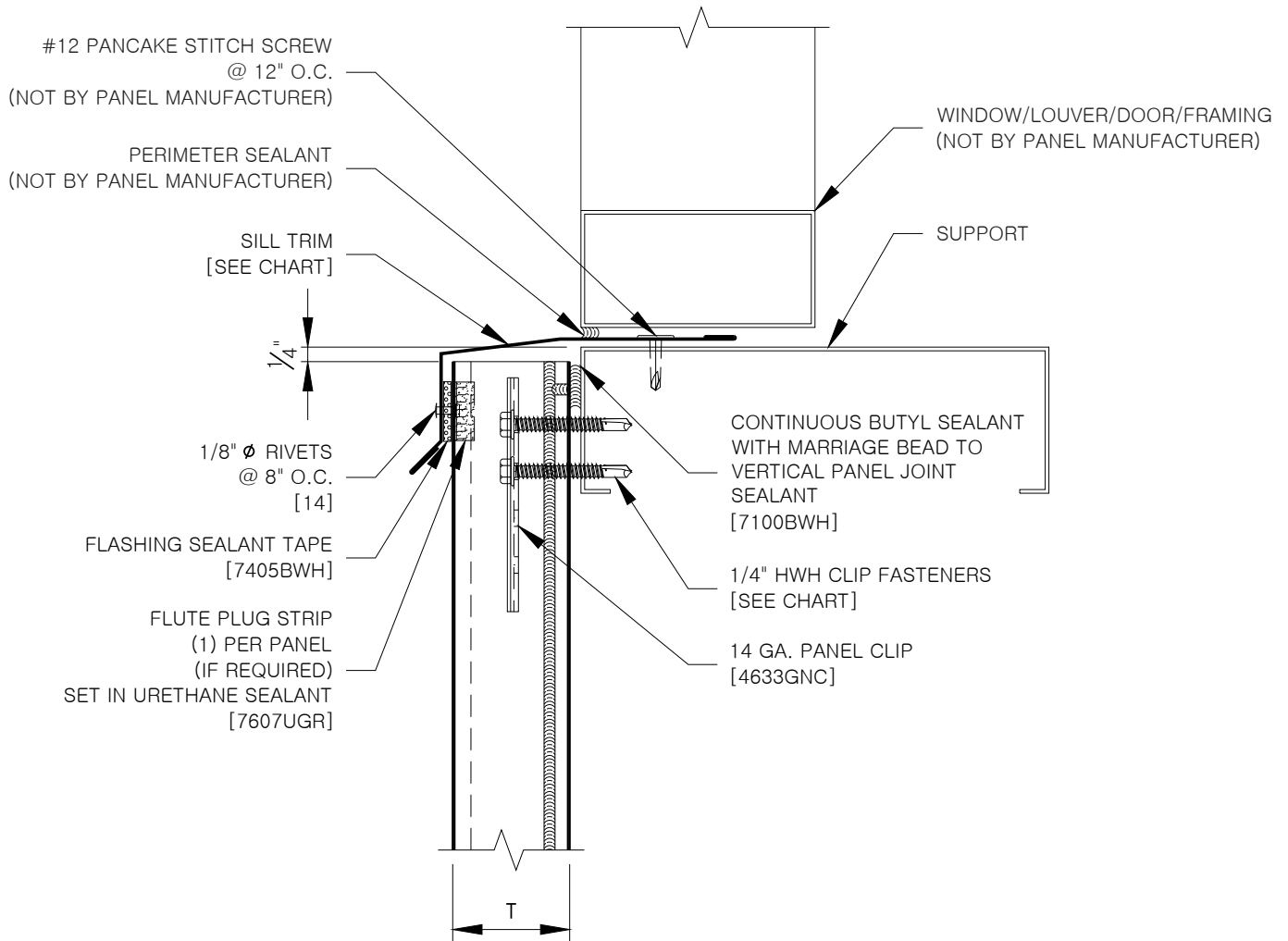
CI-CF-JB-02-A

DATE: Jul '19



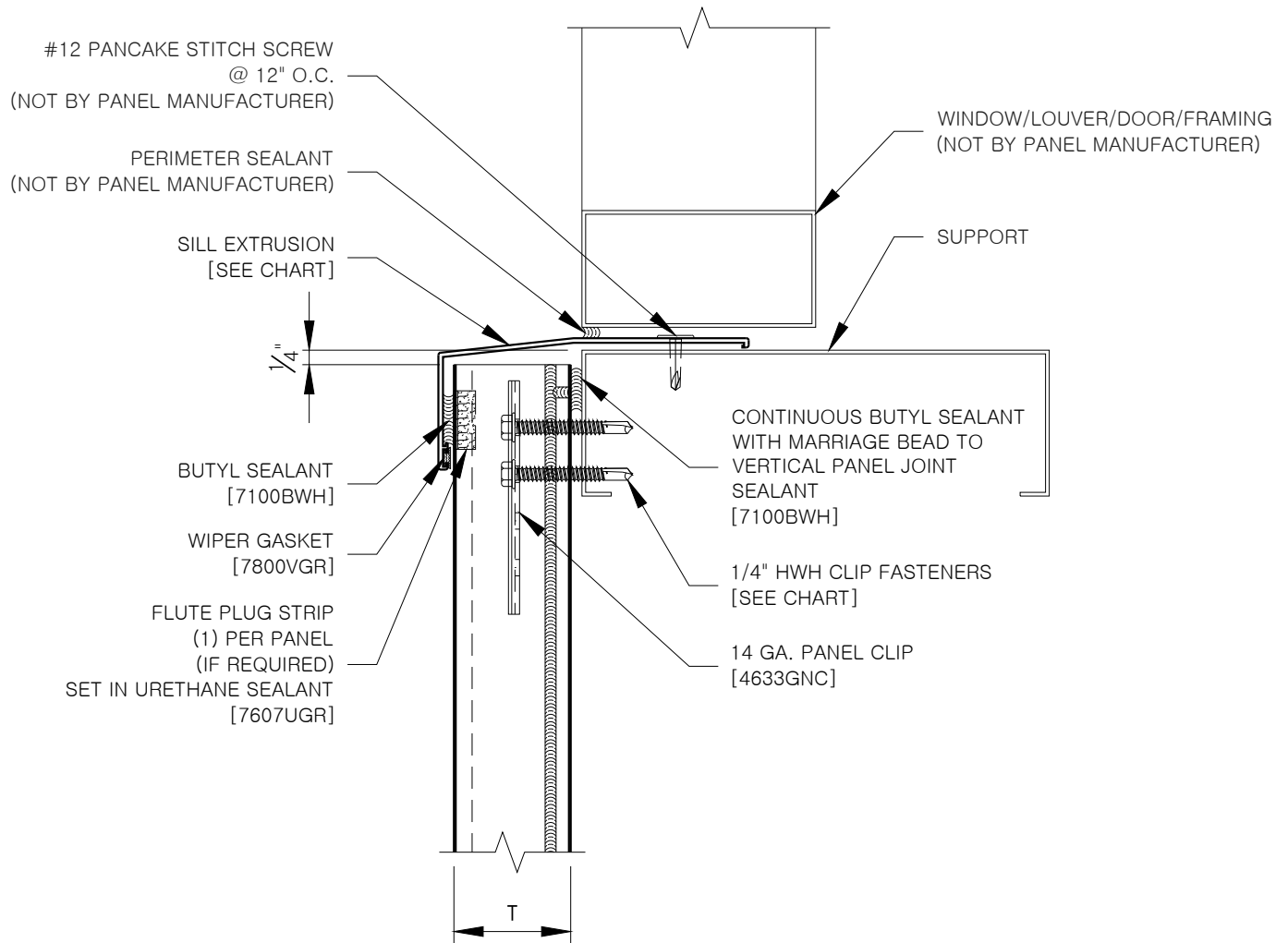
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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	FEMALE JAMB EXTRUSION	TYPE 3 THRU FASTENER	TEK 5 THRU FASTENER	TYPE B THRU FASTENER
2"	9420A	1424PNC	1732PNC	1824PNC
2.5"	9421A	1432PNC	1740PNC	1832PNC
3"	9422A	1432PNC	1740PNC	1832PNC
4"	9423A	1440PNC	1748PNC	1832PNC
COMMERCIAL & INDUSTRIAL		JAMB W/ EXTRUSION		CI-CF-EJ-01-A
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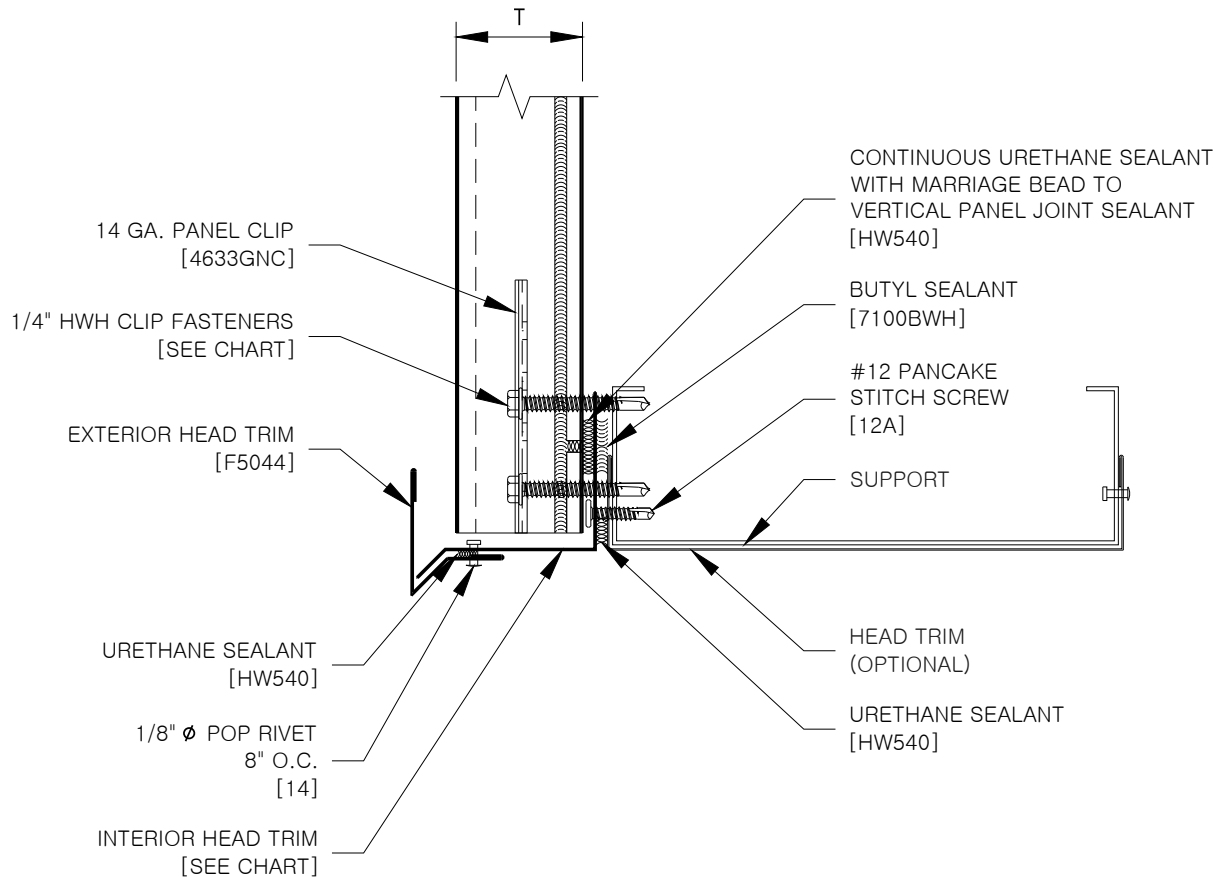
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	SILL TRIM	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5501	1616PNC	1724PNC	1816PNC
2.5"	F5503	1624PNC	1732PNC	1824PNC
2.75"	F5505	1624PNC	1732PNC	1824PNC
3"	F5507	1624PNC	1732PNC	1824PNC
4"	F5509	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		SILL DETAIL W/ FLAT TRIM		CI-CF-SL-01-A
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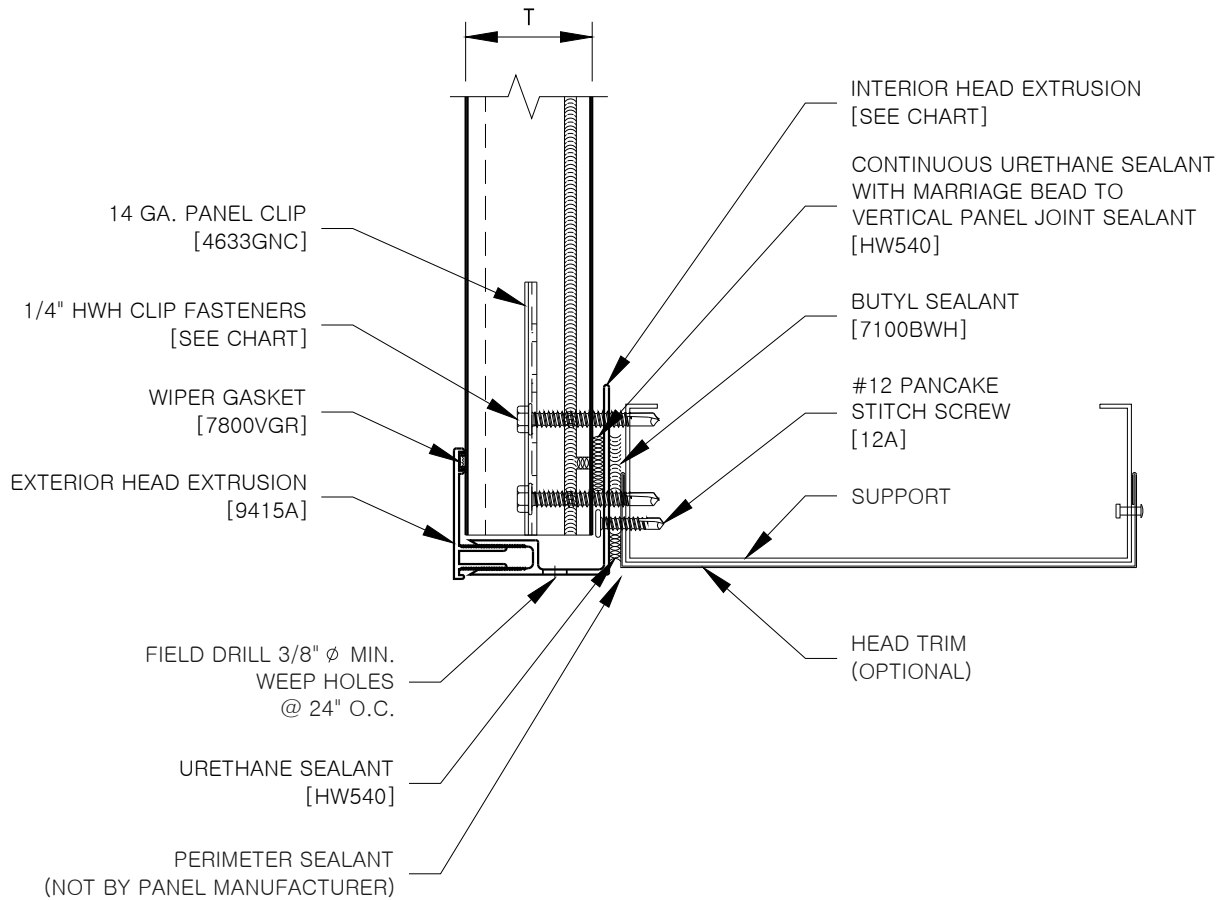
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	SILL EXTRUSION	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	9413A	1616PNC	1724PNC	1816PNC
2.5"	9413A	1624PNC	1732PNC	1824PNC
3"	9413A	1624PNC	1732PNC	1824PNC
4"	9412A	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		SILL DETAIL W/ EXTRUSION		CI-CF-ES-01-A
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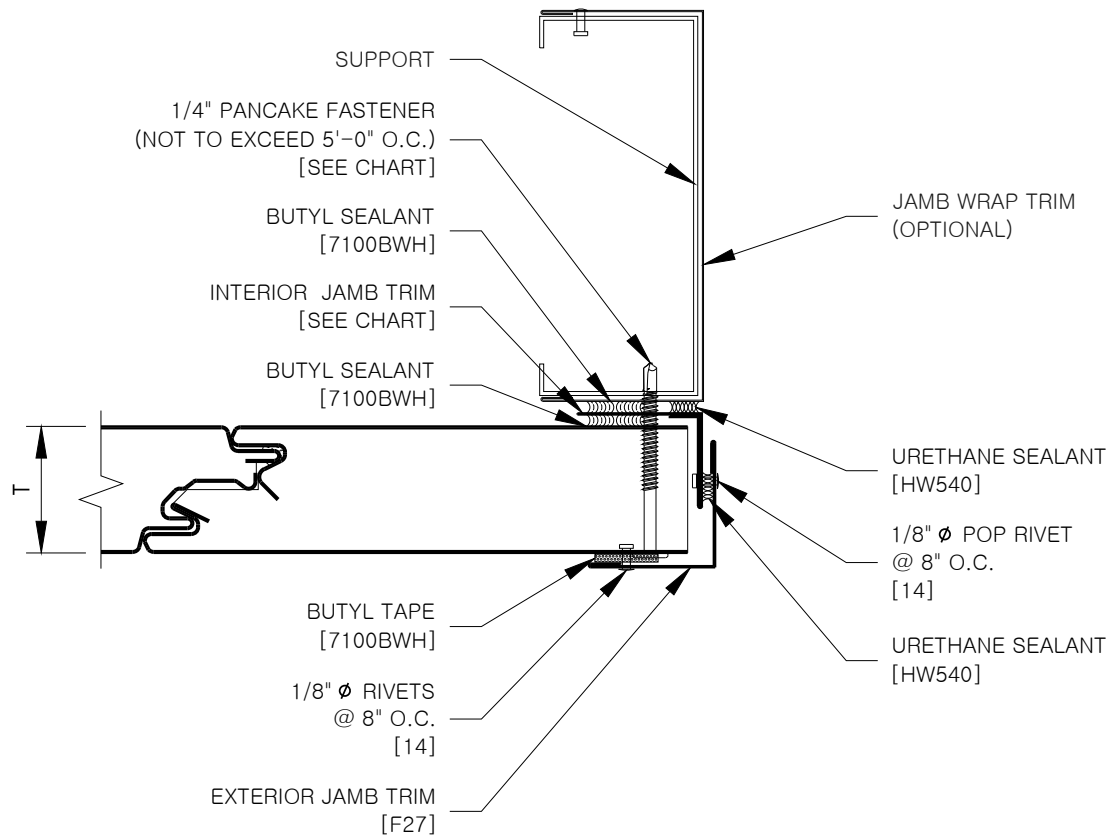
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	INTERIOR HEAD TRIM	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5045	1616PNC	1724PNC	1816PNC
2.5"	F5046	1624PNC	1732PNC	1824PNC
2.75"	F5047	1624PNC	1732PNC	1824PNC
3"	F5048	1624PNC	1732PNC	1824PNC
4"	F5049	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		O.H. DOOR HEAD W/ TWO PIECE TRIM		CI-CF-HD-02-A
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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	INTERIOR HEAD EXTRUSION	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	9420A	1616PNC	1724PNC	1816PNC
2.5"	9421A	1624PNC	1732PNC	1824PNC
3"	9422A	1624PNC	1732PNC	1824PNC
4"	9423A	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		O.H. DOOR HEAD W/ TWO PIECE EXTRUSION		CI-CF-EH-02-A
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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	INTERIOR JAMB TRIM	PANCAKE HEAD TYPE 3
2"	F5442	1424PNC
2.5"	F5442	1432PNC
3"	F5443	1432PNC
4"	F5443	1440PNC

COMMERCIAL &  
INDUSTRIAL

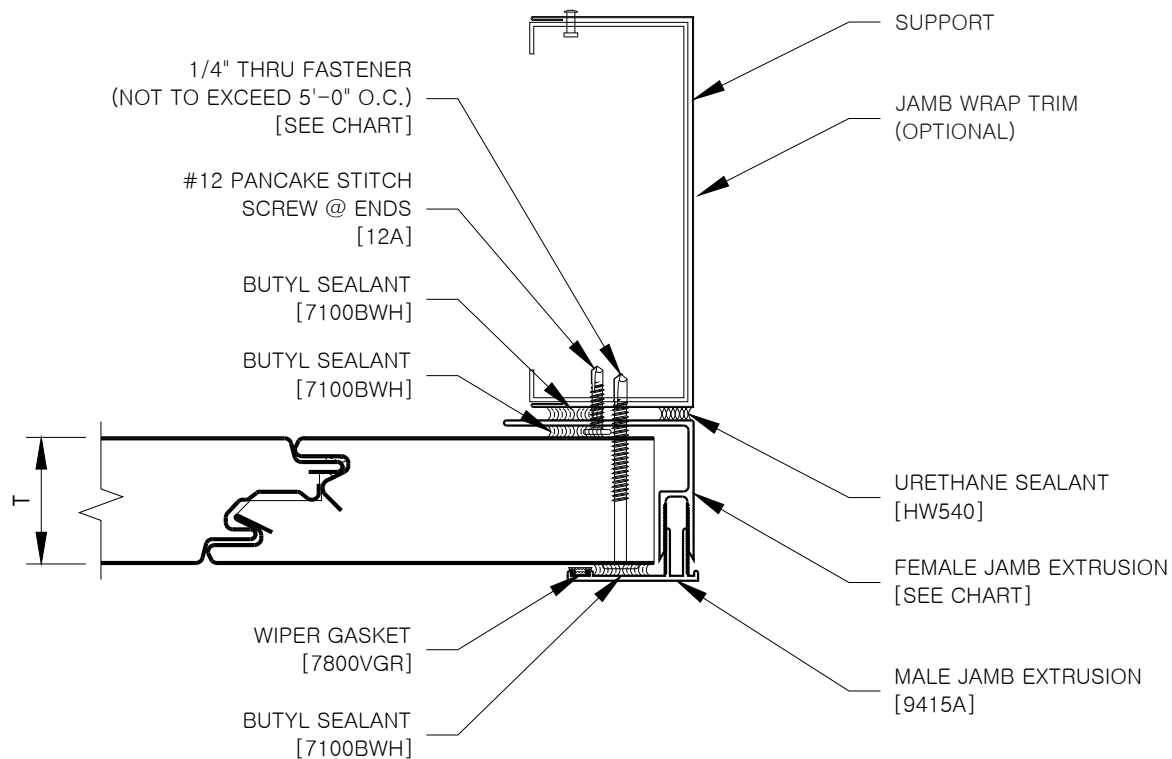
O.H. DOOR JAMB  
W/ TWO PIECE TRIM

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CI-CF-DJ-01-A

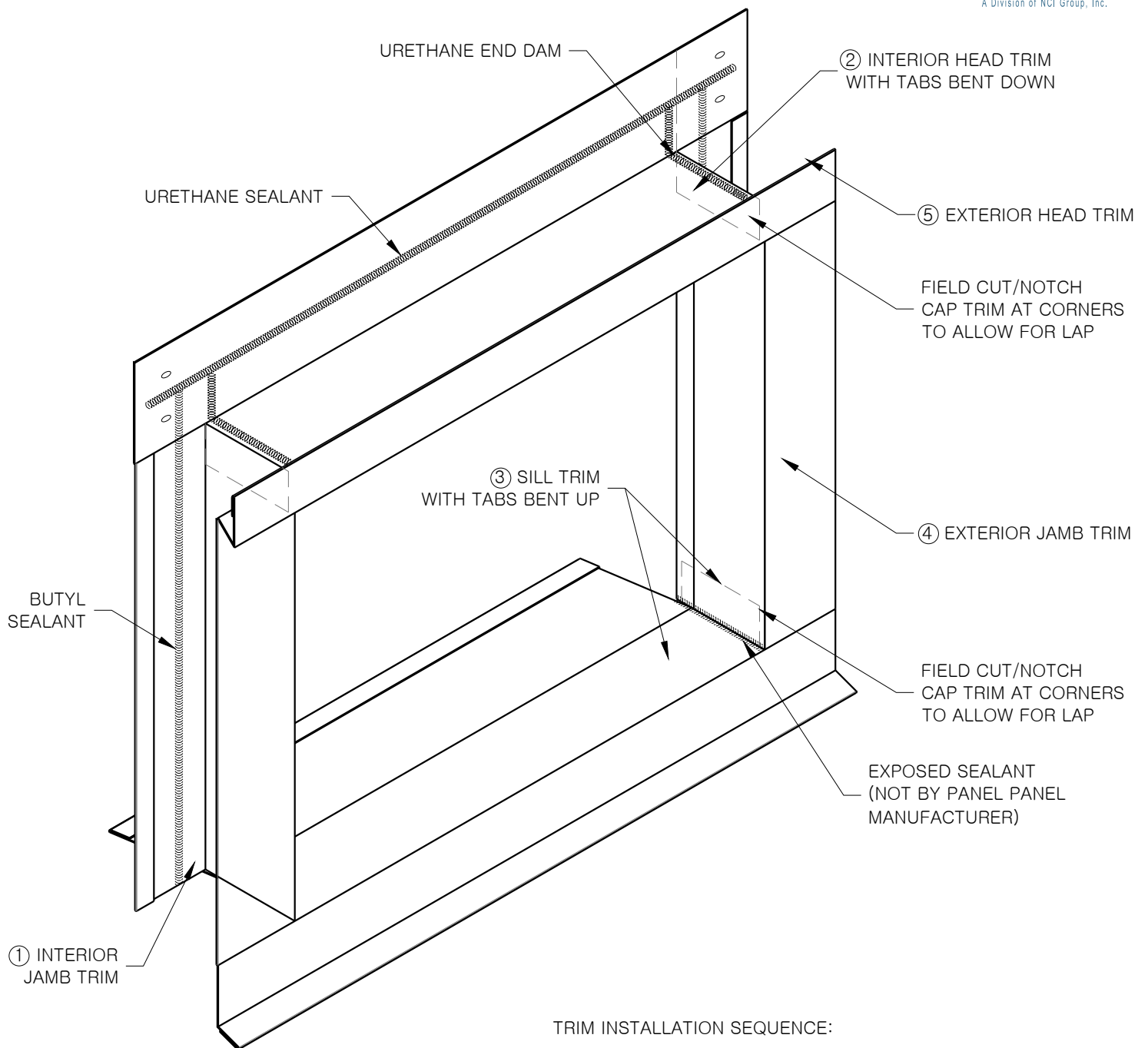
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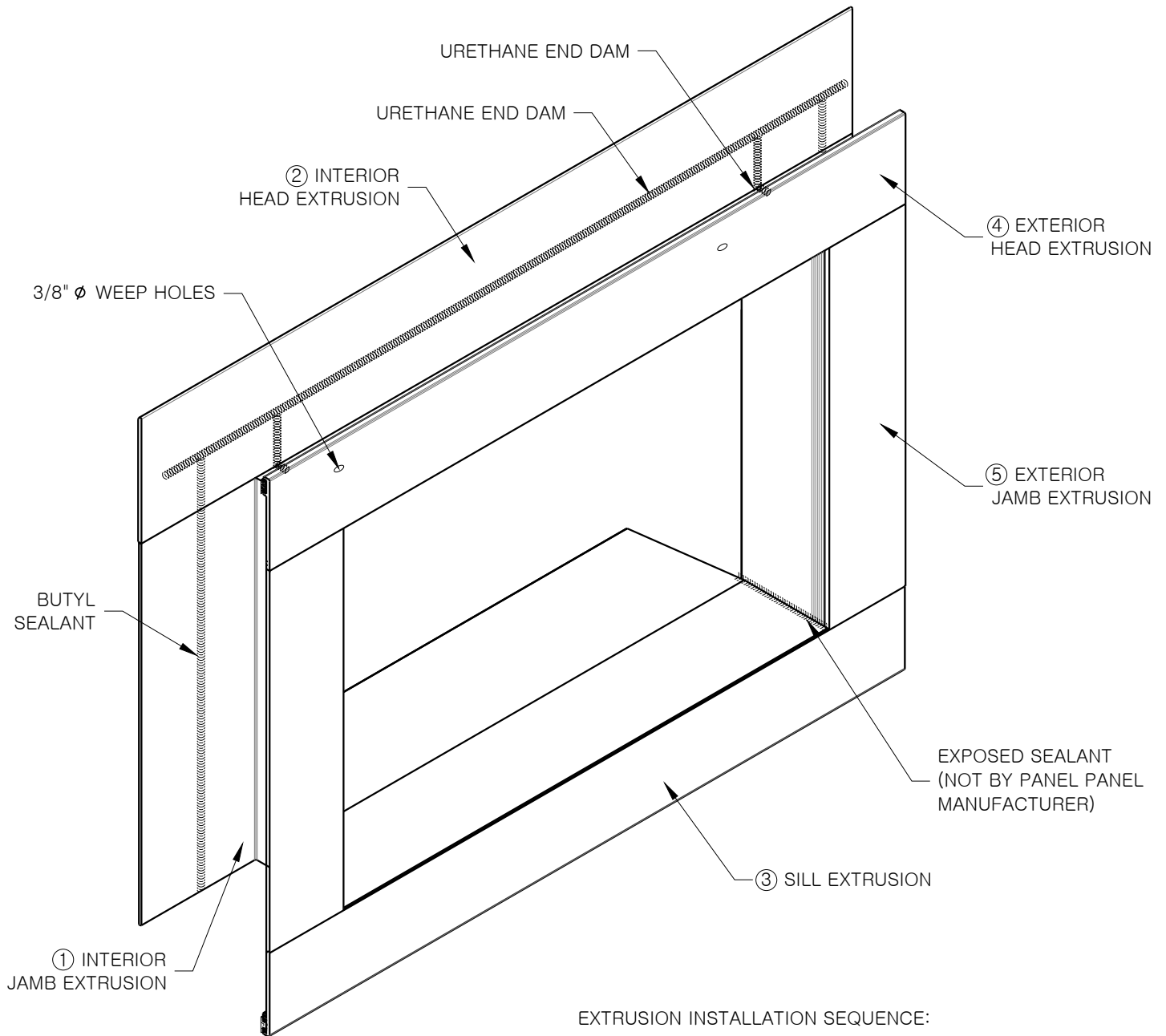
REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	FEMALE JAMB EXTRUSION	TYPE 3 THRU FASTENER	TEK 5 THRU FASTENER	TYPE B THRU FASTENER
2"	9420A	1424PNC	1732PNC	1824PNC
2.5"	9421A	1432PNC	1740PNC	1832PNC
3"	9422A	1432PNC	1740PNC	1832PNC
4"	9423A	1440PNC	1748PNC	1832PNC
COMMERCIAL & INDUSTRIAL		O.H. DOOR JAMB W/ EXTRUSION		CI-CF-ED-01-A
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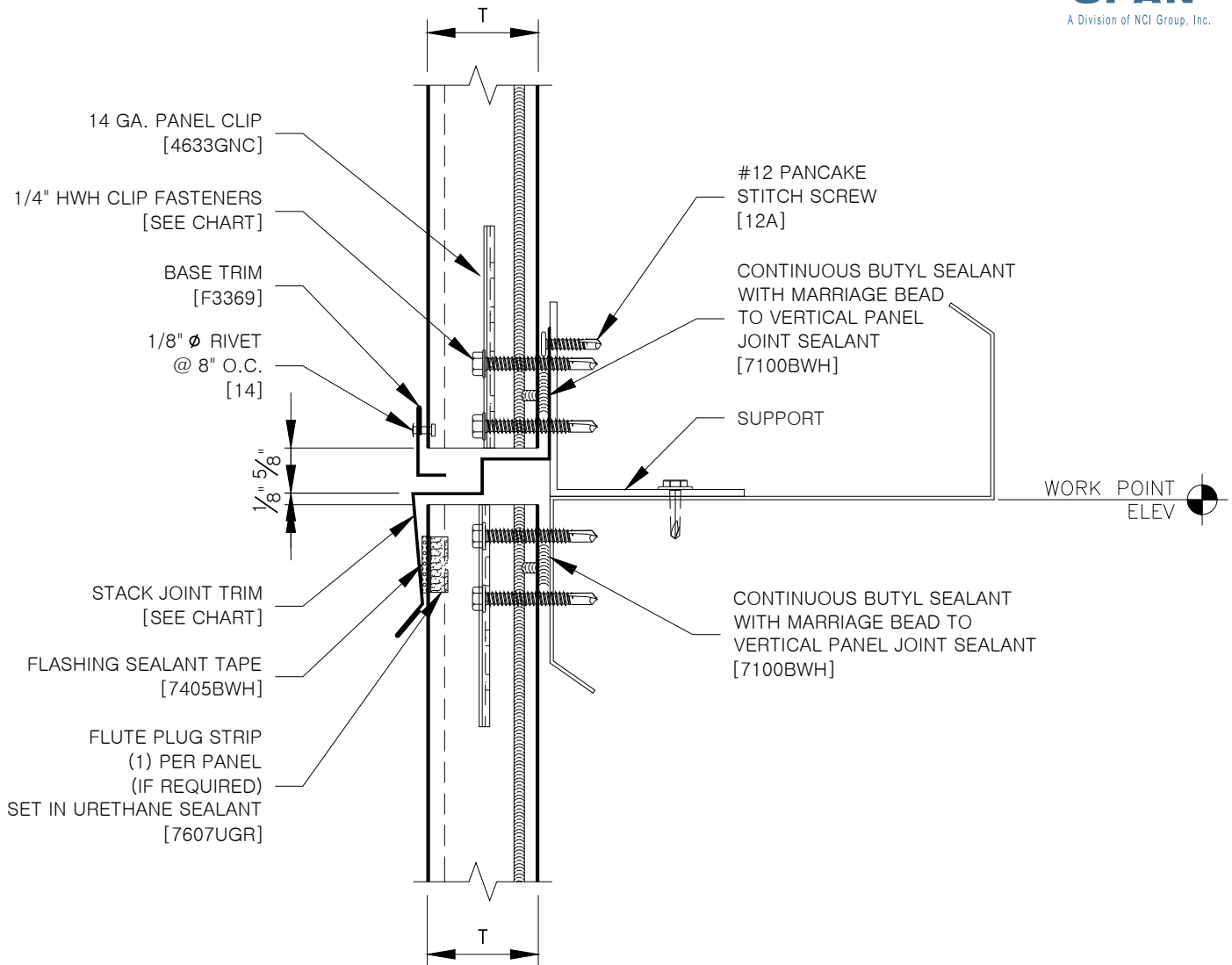
TRIM INSTALLATION SEQUENCE:

- ① INTERIOR JAMB TRIMS
- ② INTERIOR HEAD TRIM WITH TABS BENT DOWN (NOTCHED)
- ③ SILL TRIM WITH TABS BENT UP (NOTCHED)
- ④ EXTERIOR JAMB TRIMS
- ⑤ EXTERIOR HEAD TRIM



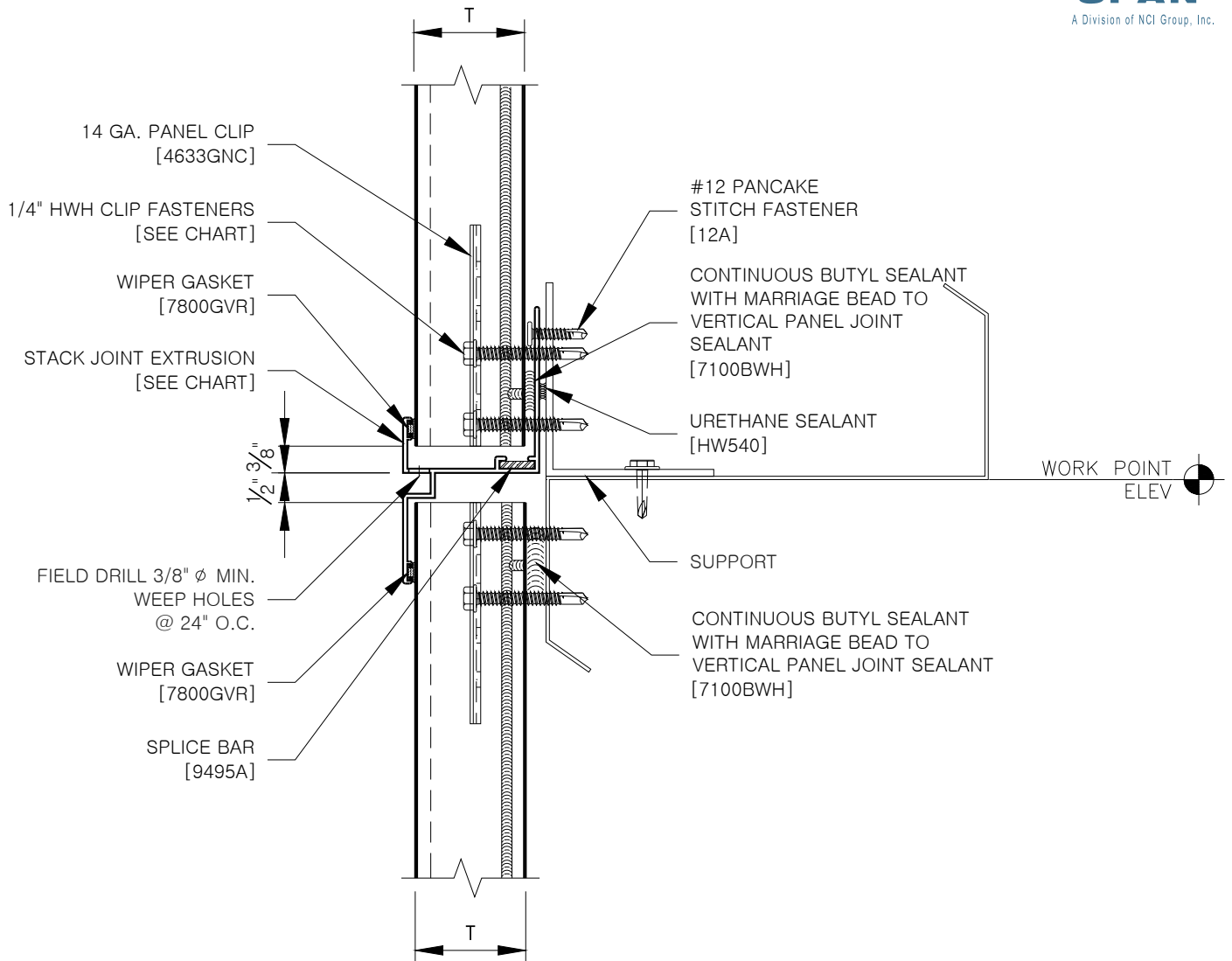
EXTRUSION INSTALLATION SEQUENCE:

- ① INTERIOR JAMB EXTRUSIONS
- ② INTERIOR HEAD EXTRUSION (NOTCHED)
- ③ SILL EXTRUSION (NOTCHED)
- ④ EXTERIOR HEAD EXTRUSION (NOTCHED)
- ⑤ EXTERIOR JAMB EXTRUSIONS



REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	STACK JOINT TRIM	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	F5701	1616PNC	1724PNC	1816PNC
2.5"	F5703	1624PNC	1732PNC	1824PNC
2.75"	F5705	1624PNC	1732PNC	1824PNC
3"	F5707	1624PNC	1732PNC	1824PNC
4"	F5709	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		STACK JOINT W/ TRIM		CI-CF-SJ-01-A
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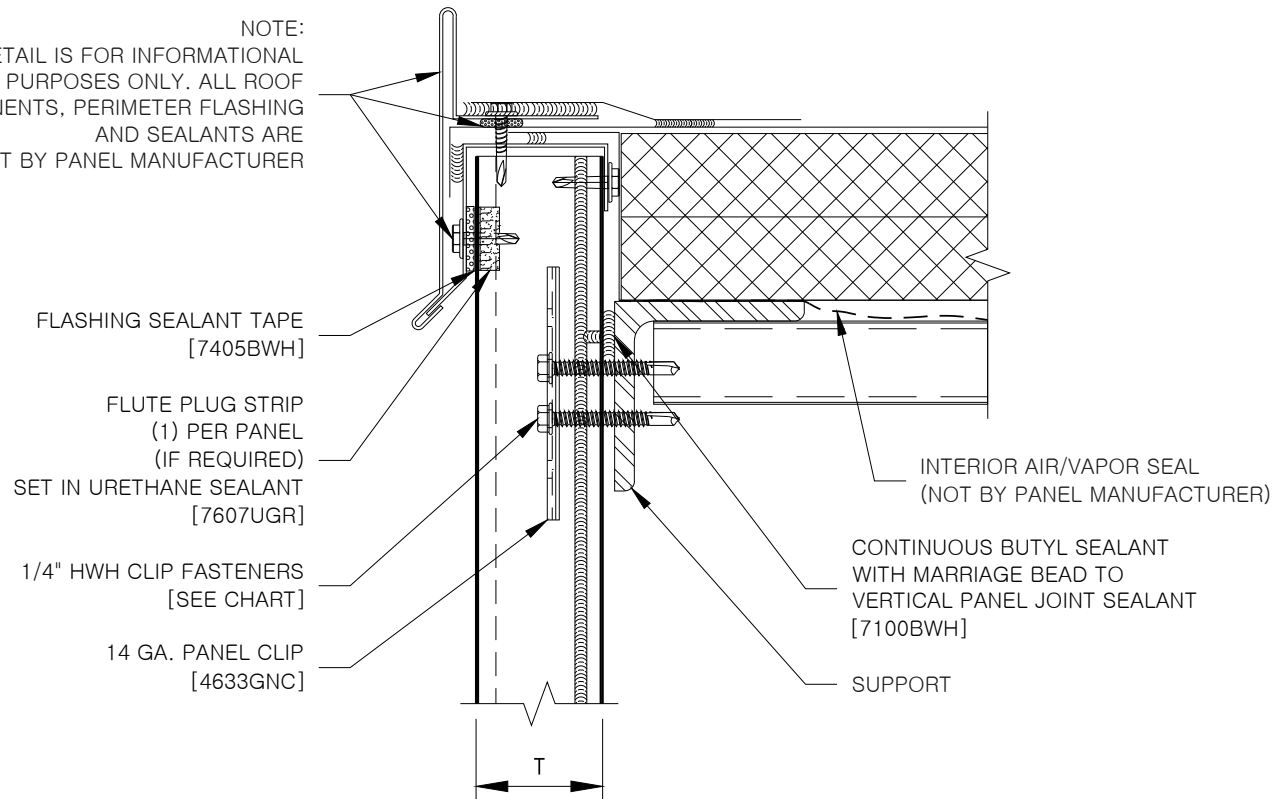


REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.

CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	STACK JOINT EXTRUSION	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	9455A	1616PNC	1724PNC	1816PNC
2.5"	9456A	1624PNC	1732PNC	1824PNC
3"	9458A	1624PNC	1732PNC	1824PNC
4"	9459A	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		STACK JOINT W/ EXTRUSION		CI-CF-ESJ-01-A
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NOTE:  
THIS DETAIL IS FOR INFORMATIONAL  
PURPOSES ONLY. ALL ROOF  
COMPONENTS, PERIMETER FLASHING  
AND SEALANTS ARE  
NOT BY PANEL MANUFACTURER



REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE  
APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	TYPE III CLIP FASTENER	TYPE V CLIP FASTENER	TYPE B CLIP FASTENER
2"	1616PNC	1724PNC	1816PNC
2.5"	1624PNC	1732PNC	1824PNC
3"	1624PNC	1732PNC	1824PNC
2.75"	1624PNC	1732PNC	1824PNC
4"	1632PNC	1740PNC	1832PNC

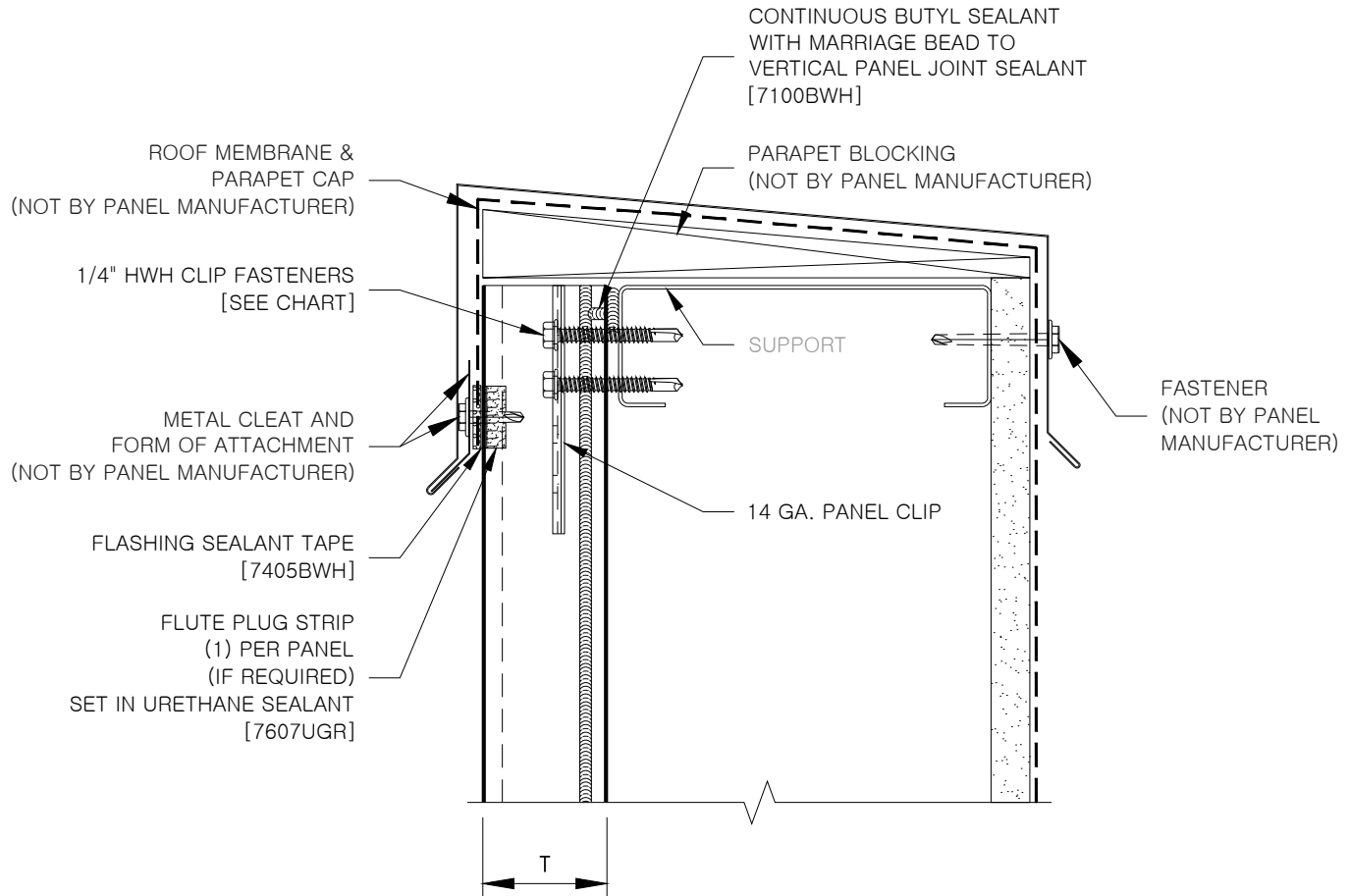
COMMERCIAL &  
INDUSTRIAL

EAVE DETAIL –  
CONVENTIONAL ROOF

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DATE: Jul '19



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CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

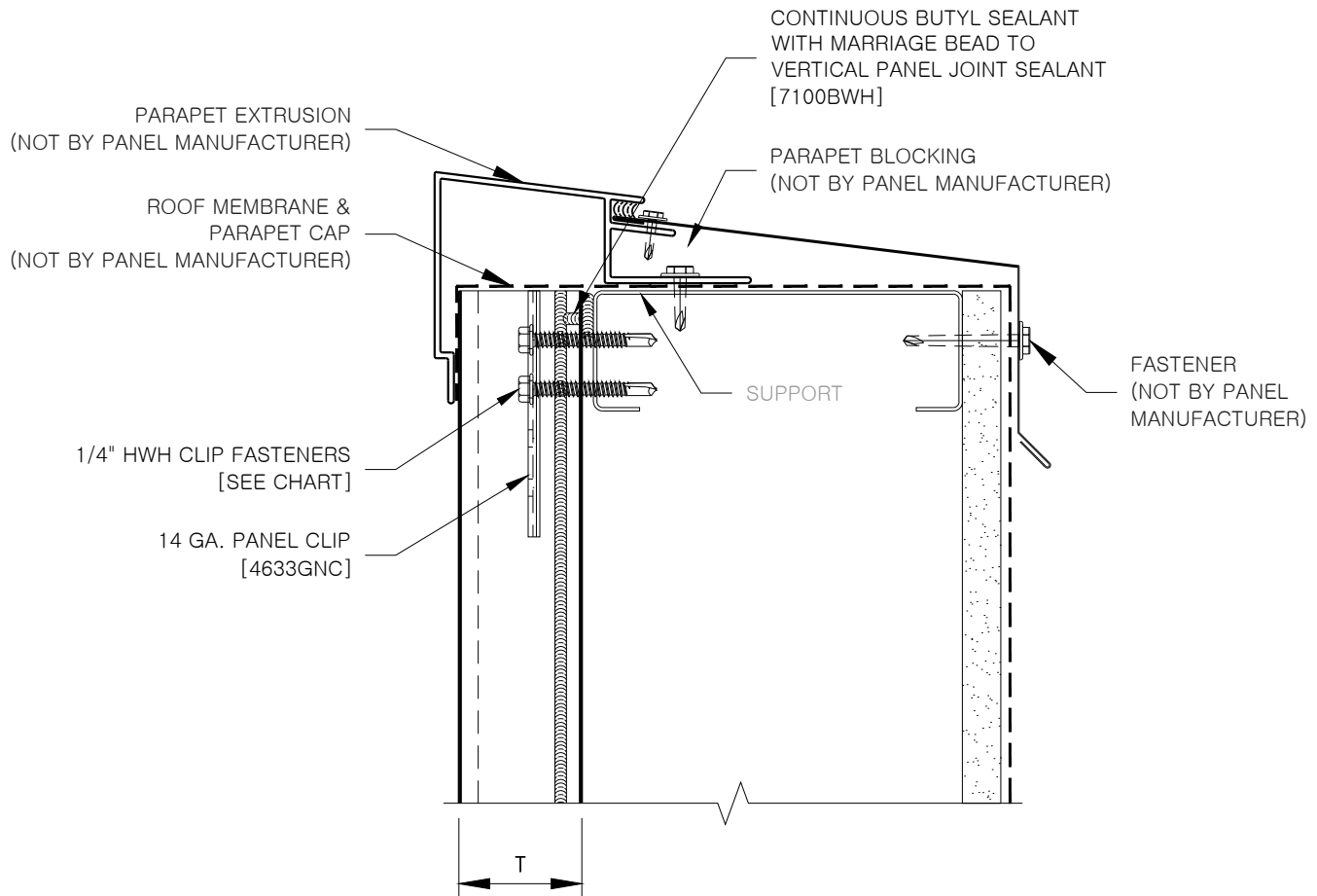
T	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	1616PNC	1724PNC	1816PNC
2.5"	1624PNC	1732PNC	1824PNC
2.75"	1624PNC	1732PNC	1824PNC
3"	1624PNC	1732PNC	1824PNC
4"	1632PNC	1740PNC	1832PNC

COMMERCIAL &  
INDUSTRIAL

PARAPET (SUPPORTED)  
W/ TRIM

CI-CF-TP-01-A

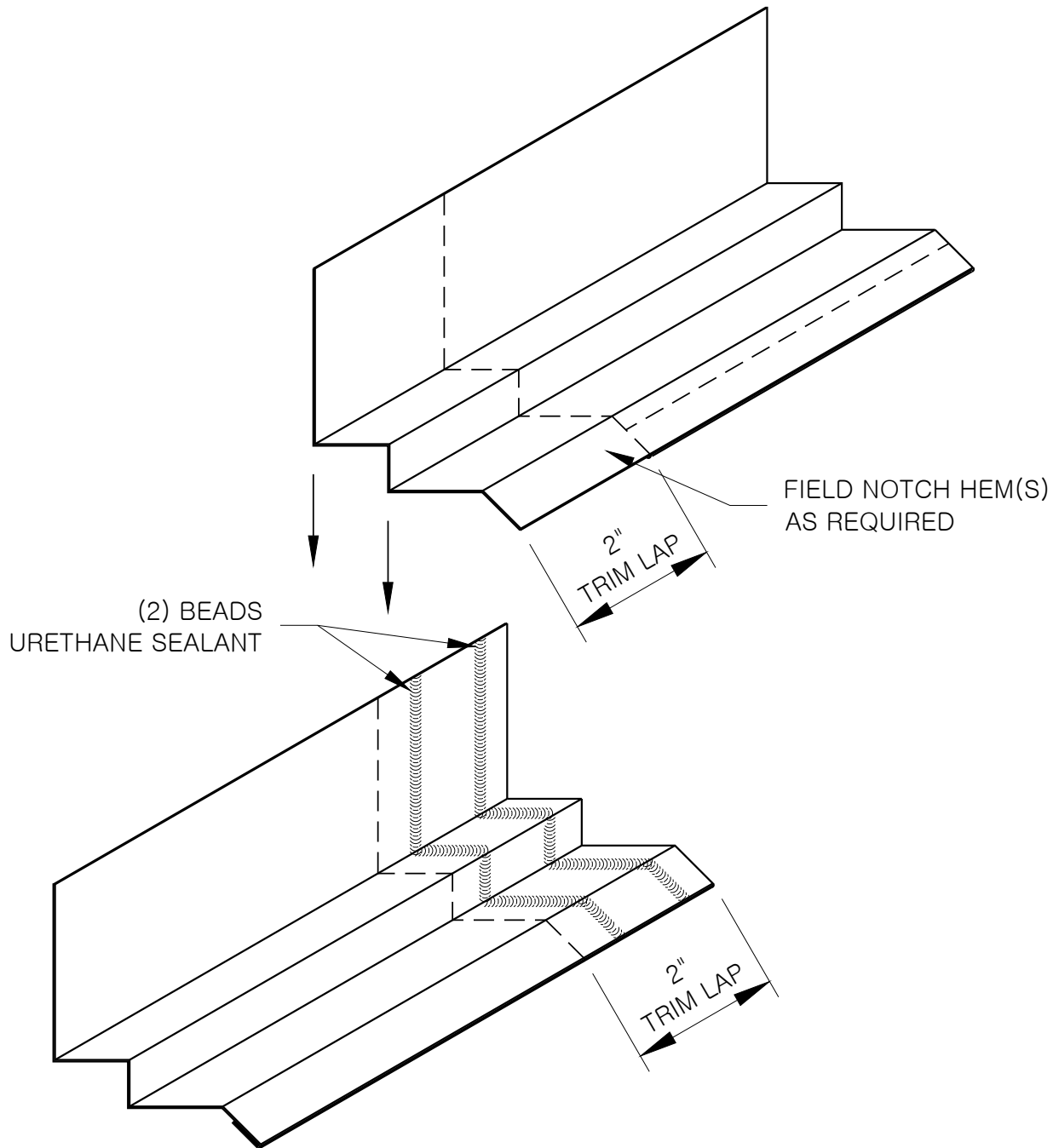
DATE: Jul '19



REFER TO SHEET "CI-CF-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.  
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

T	TYPE 3 CLIP FASTENER	TYPE 5 CLIP FASTENER	TYPE B CLIP FASTENER
2"	1616PNC	1724PNC	1816PNC
2.5"	1624PNC	1732PNC	1824PNC
2.75"	1624PNC	1732PNC	1824PNC
3"	1624PNC	1732PNC	1824PNC
4"	1632PNC	1740PNC	1832PNC
COMMERCIAL & INDUSTRIAL		PARAPET (SUPPORTED) W/ EXTRUSION	
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		CI-CF-EP-02-A	
		DATE: Jul '19	



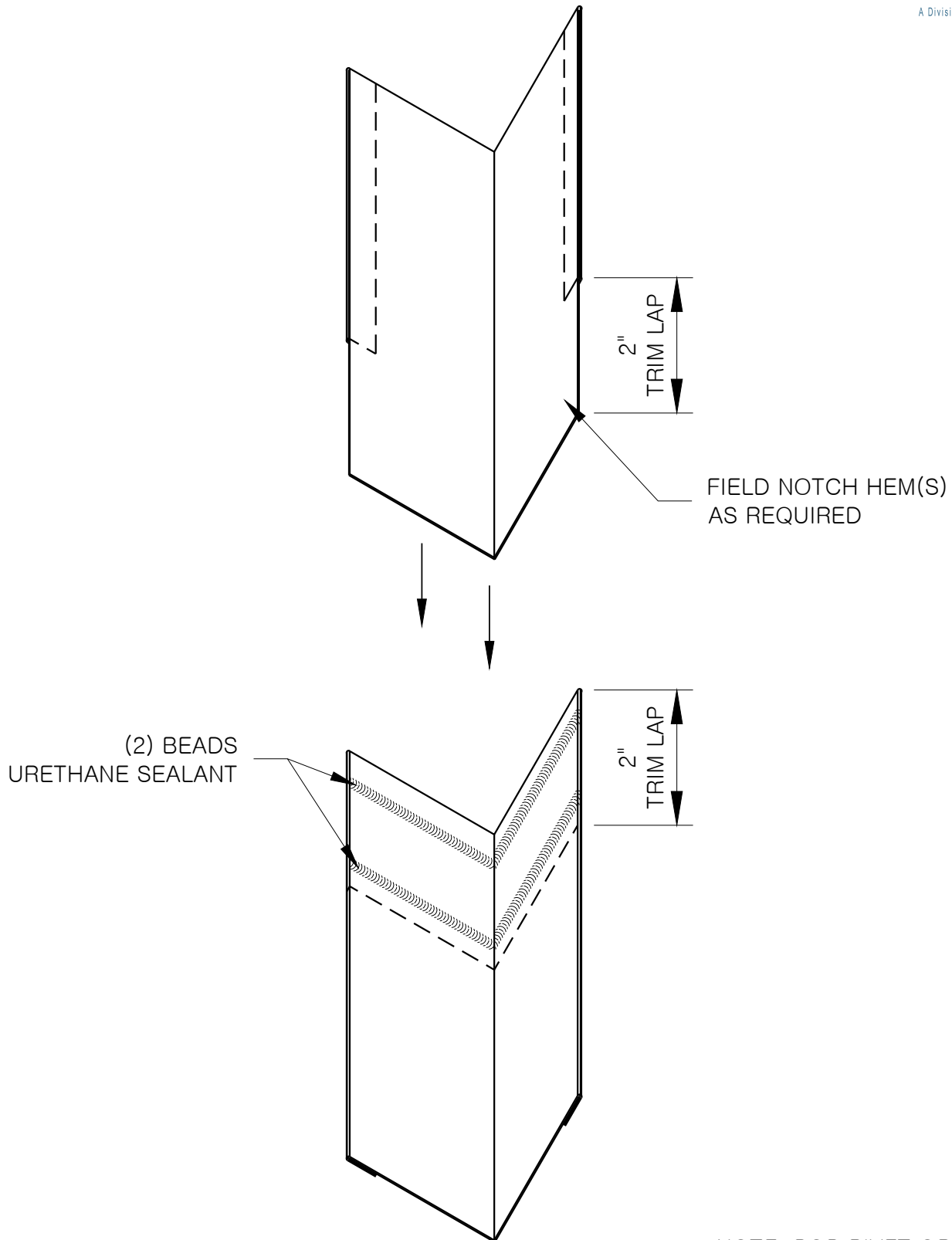


NOTE: POP RIVET OR STITCH  
SCREW AS NECESSARY

COMMERCIAL &  
INDUSTRIAL

TRIM END LAP -  
BASE

CI-CF-EL-B  
DATE: Jul '19

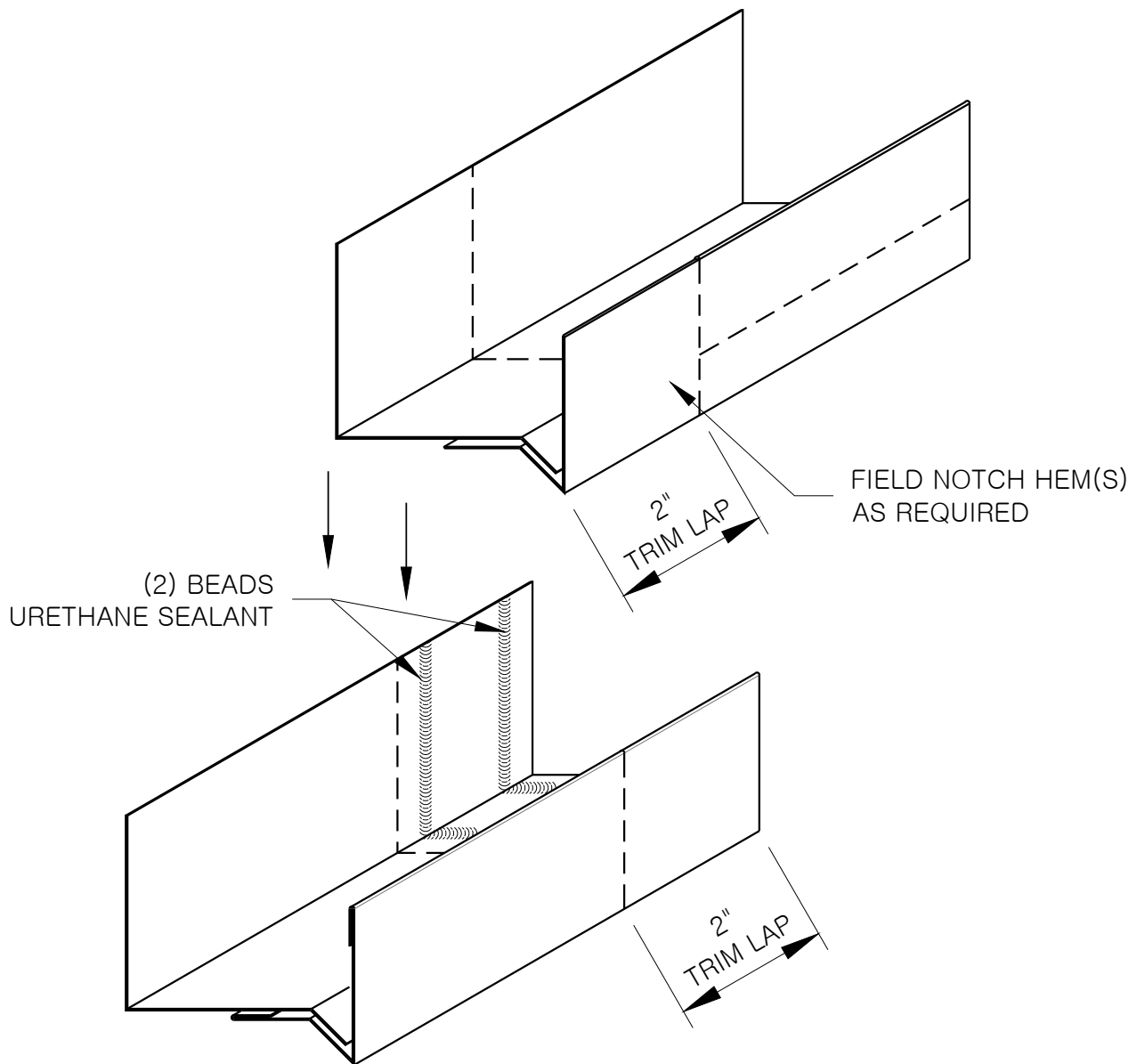


NOTE: POP RIVET OR STITCH  
SCREW AS NECESSARY

COMMERCIAL &  
INDUSTRIAL

TRIM END LAP –  
CORNER

CI-CF-EL-C  
DATE: Jul '19

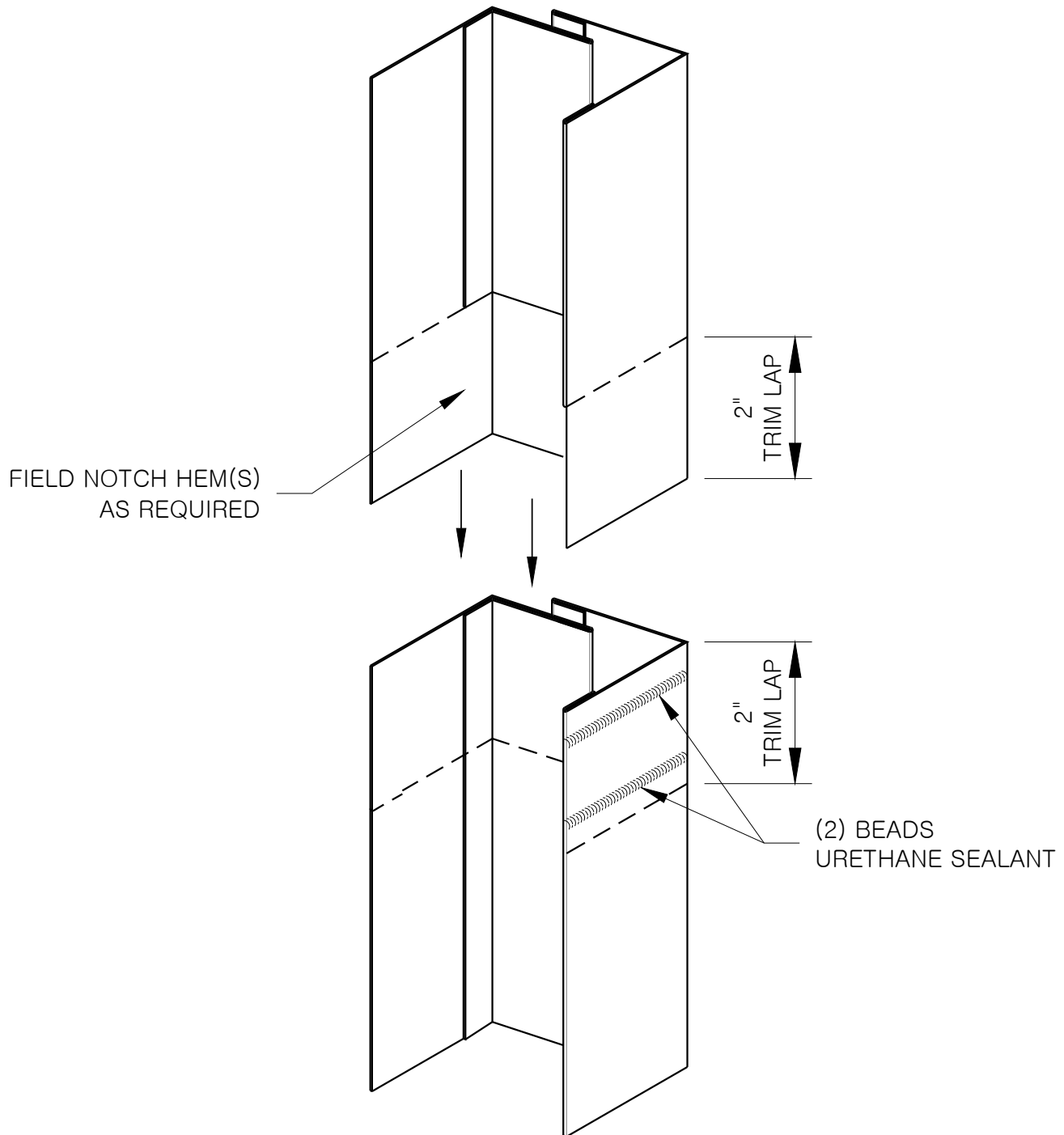


NOTE: POP RIVET OR STITCH  
SCREW AS NECESSARY

COMMERCIAL &  
INDUSTRIAL

TRIM END LAP –  
TWO PIECE HEAD

CI-CF-EL-H  
DATE: Jul '19

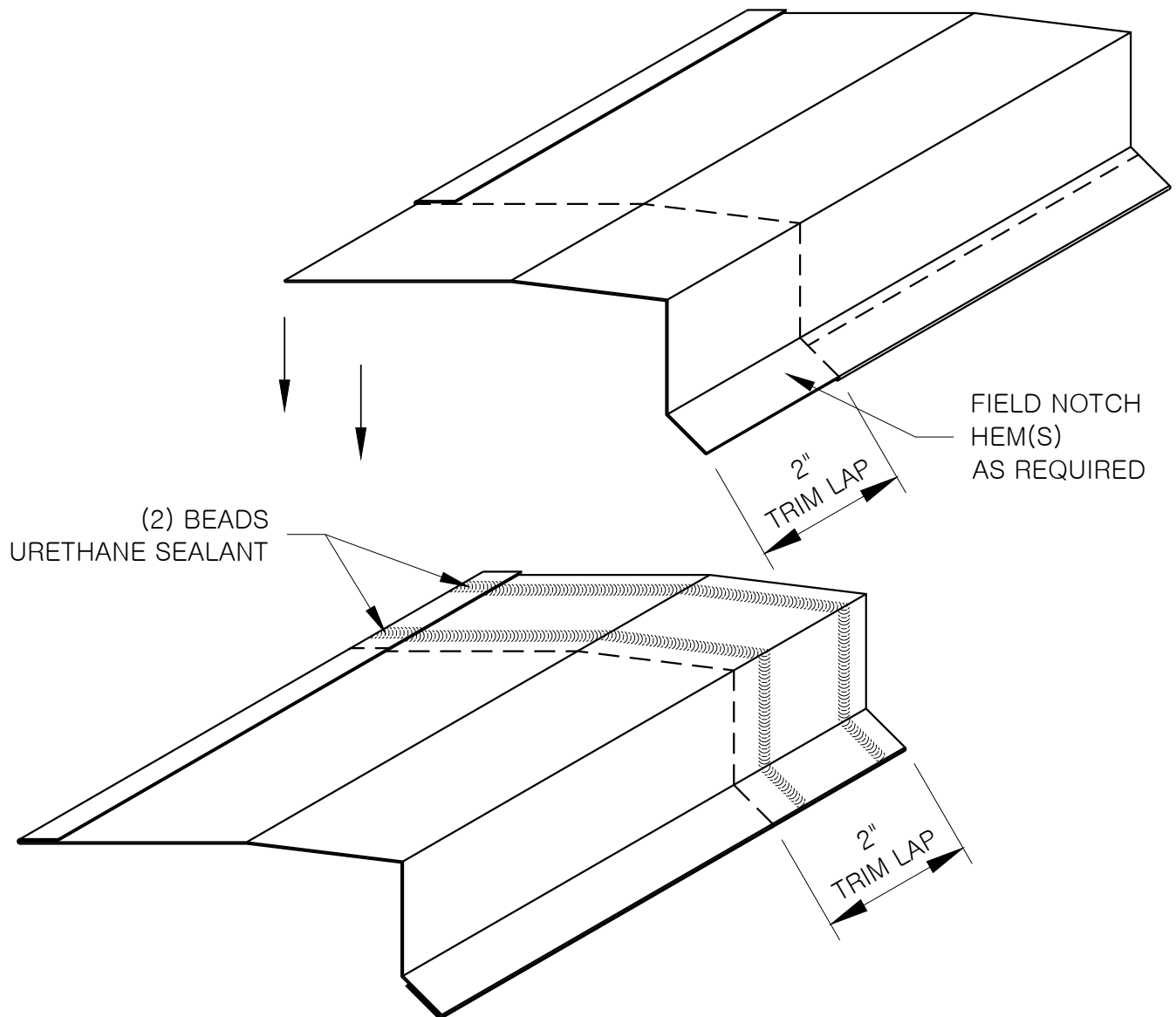


NOTE: POP RIVET OR STITCH  
SCREW AS NECESSARY

COMMERCIAL &  
INDUSTRIAL

TRIM END LAP –  
TWO PIECE JAMB

CI-CF-EL-J  
DATE: Jul '19

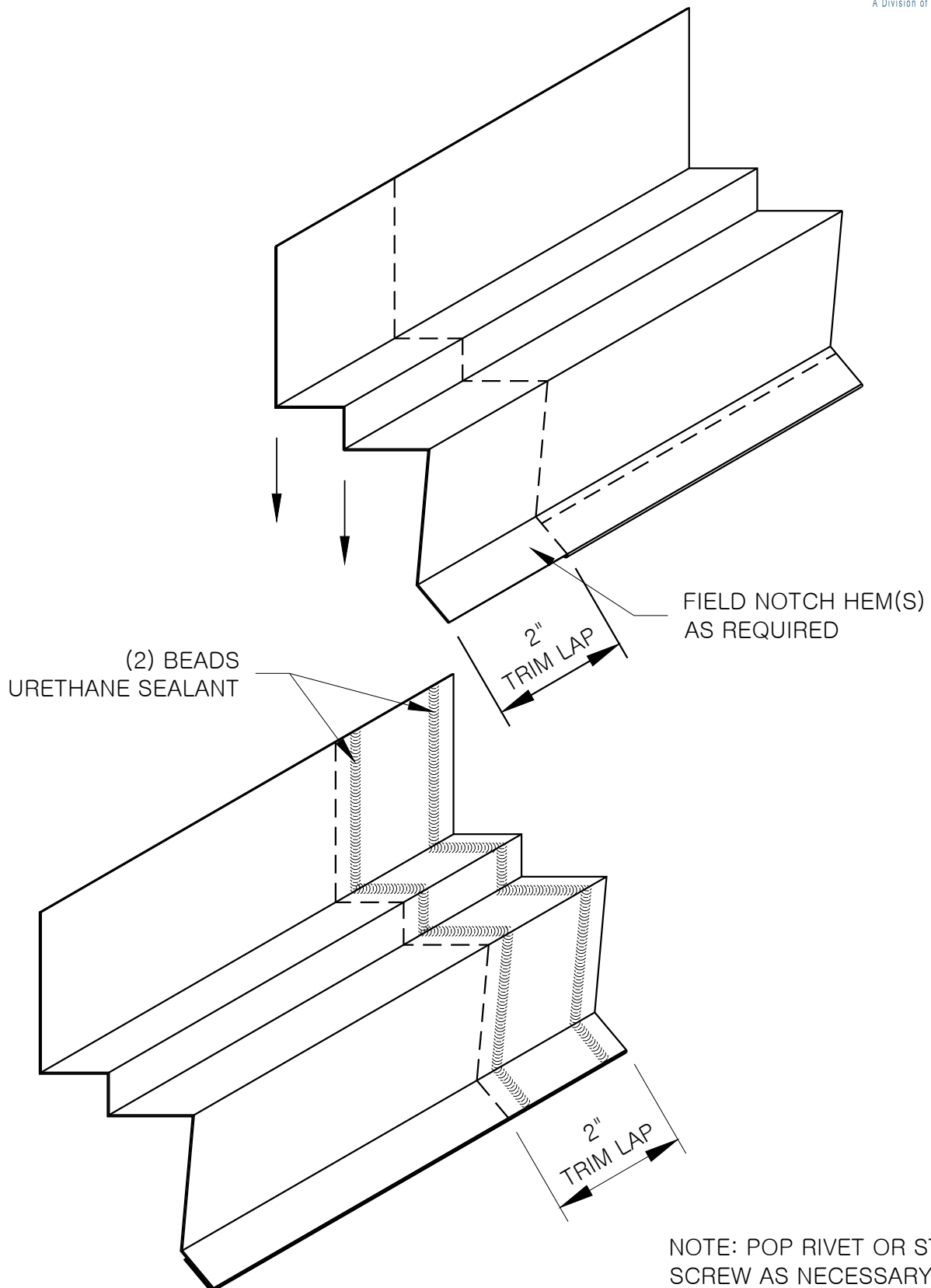


NOTE: POP RIVET OR STITCH  
SCREW AS NECESSARY

COMMERCIAL &  
INDUSTRIAL

TRIM END LAP -  
SILL

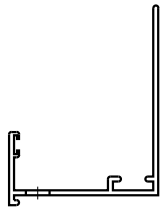
CI-CF-EL-S  
DATE: Jul '19



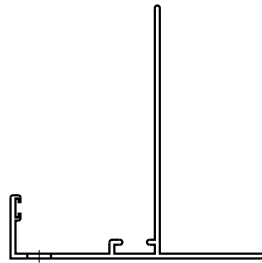
COMMERCIAL &  
INDUSTRIAL

TRIM END LAP –  
STACK JOINT

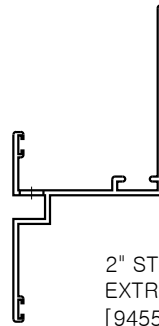
CI-CF-EL-SJ  
DATE: Jul '19



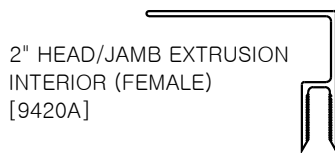
2" BASE  
EXTRUSION  
[9405A]



2" BASE/SOFFT  
EXTRUSION  
[9414A]

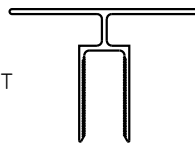


2" STACK JOINT  
EXTRUSION  
[9455A]



2" HEAD/JAMB EXTRUSION  
INTERIOR (FEMALE)  
[9420A]

2" VERTICAL H JOINT  
EXTRUSION  
INTERIOR (FEMALE)  
[9450A]



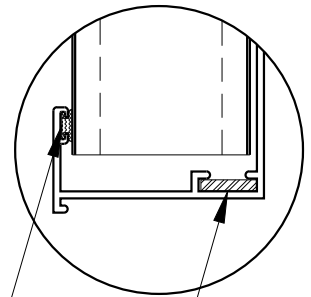
HEAD/JAMB EXTRUSION  
EXTERIOR (MALE)  
[9415A]



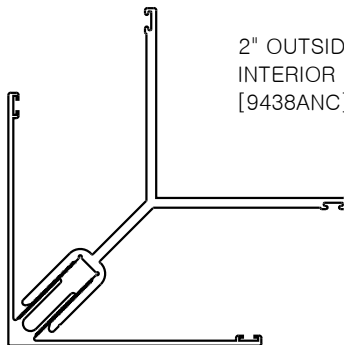
2" VERTICAL H JOINT  
EXTRUSION  
EXTERIOR (MALE)  
[9445A]



WIPER GASKET  
[7800VGR]



EXTRUDED ALUMINUM  
SPLICE BAR  
[9495A]

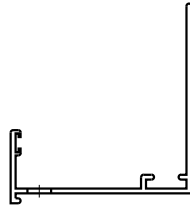


2" OUTSIDE CORNER  
INTERIOR (FEMALE)  
[9438ANC]

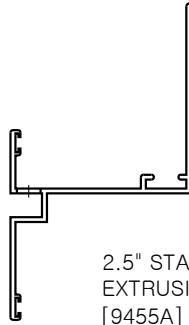
OUTSIDE CORNER  
EXTERIOR (MALE)  
[9425A]



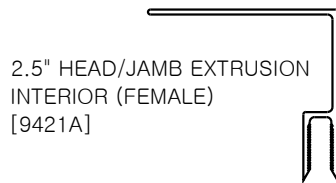
2" SILL EXTRUSION  
[9413A]



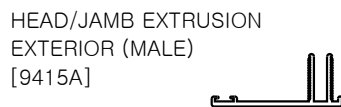
2.5" BASE  
EXTRUSION  
[9406A]



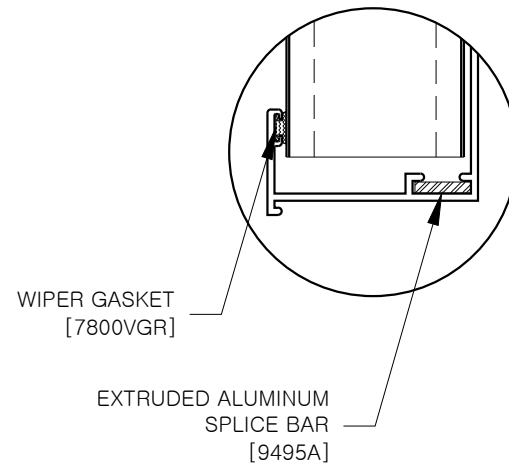
2.5" STACK JOINT  
EXTRUSION  
[9455A]



2.5" HEAD/JAMB EXTRUSION  
INTERIOR (FEMALE)  
[9421A]

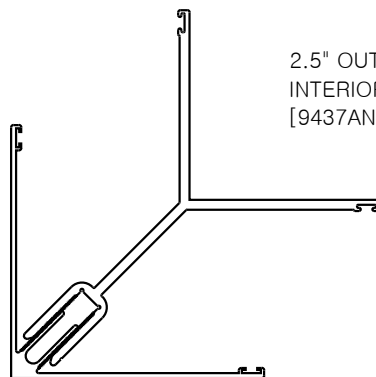


HEAD/JAMB EXTRUSION  
EXTERIOR (MALE)  
[9415A]



WIPER GASKET  
[7800VGR]

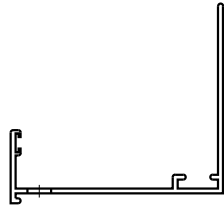
EXTRUDED ALUMINUM  
SPICE BAR  
[9495A]



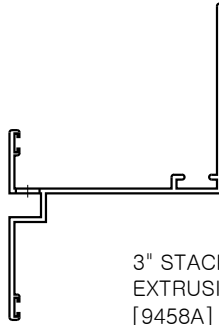
2.5" OUTSIDE CORNER  
INTERIOR (FEMALE)  
[9437ANC]

OUTSIDE CORNER  
EXTERIOR (MALE)  
[9429ANC]

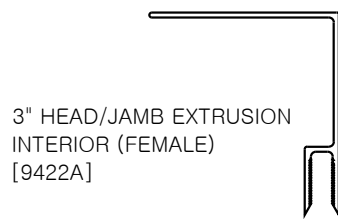




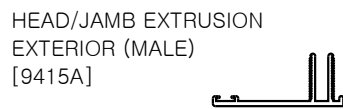
3" BASE EXTRUSION  
[9407A]



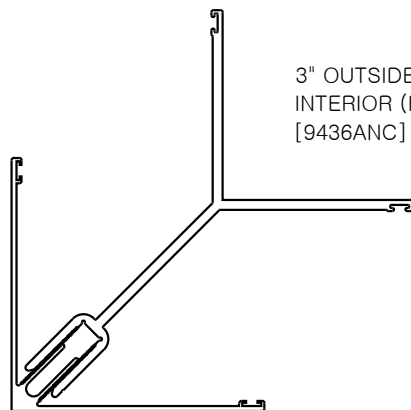
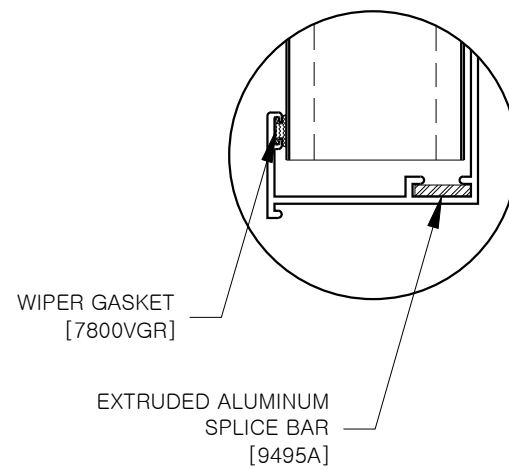
3" STACK JOINT  
EXTRUSION  
[9458A]



3" HEAD/JAMB EXTRUSION  
INTERIOR (FEMALE)  
[9422A]

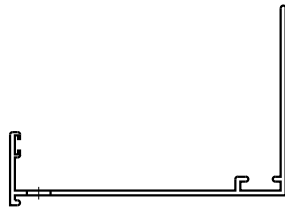


HEAD/JAMB EXTRUSION  
EXTERIOR (MALE)  
[9415A]

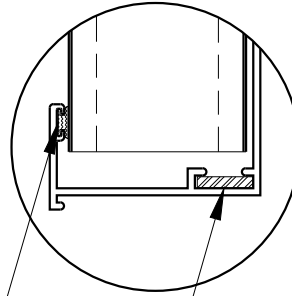


3" OUTSIDE CORNER  
INTERIOR (FEMALE)  
[9436ANC]

OUTSIDE CORNER  
EXTERIOR (MALE)  
[9429ANC]

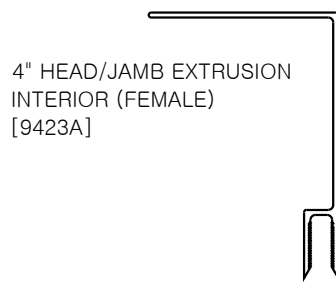


4" BASE EXTRUSION  
[9404A]



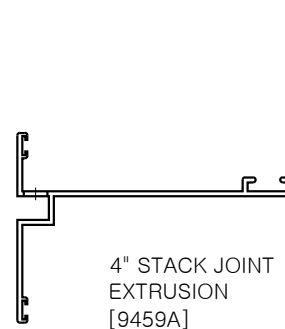
WIPER GASKET  
[7800VGR]

EXTRUDED ALUMINUM  
SPLICE BAR  
[9495A]

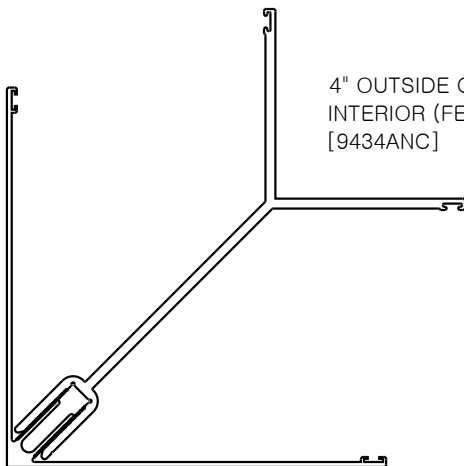


4" HEAD/JAMB EXTRUSION  
INTERIOR (FEMALE)  
[9423A]

HEAD/JAMB EXTRUSION  
EXTERIOR (MALE)  
[9415A]



4" STACK JOINT  
EXTRUSION  
[9459A]

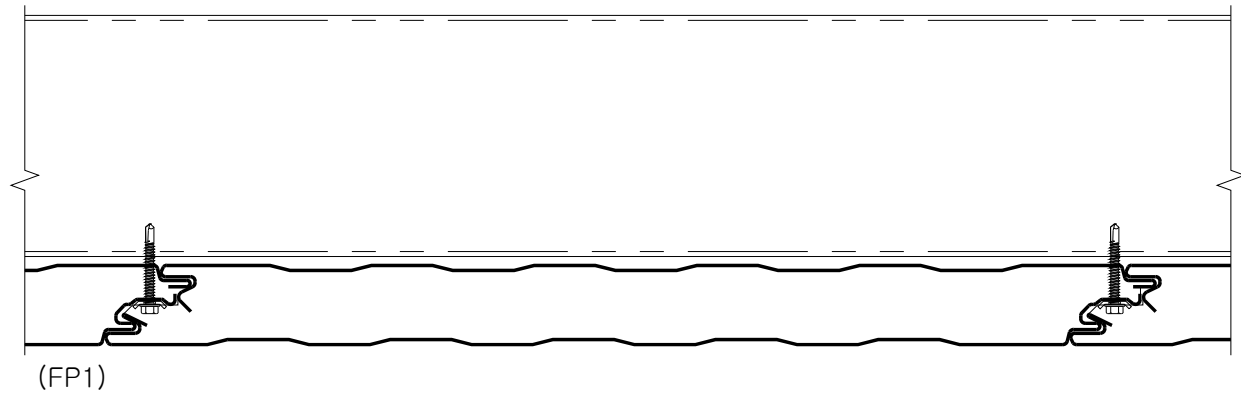


4" OUTSIDE CORNER  
INTERIOR (FEMALE)  
[9434ANC]

OUTSIDE CORNER  
EXTERIOR (MALE)  
[9429ANC]

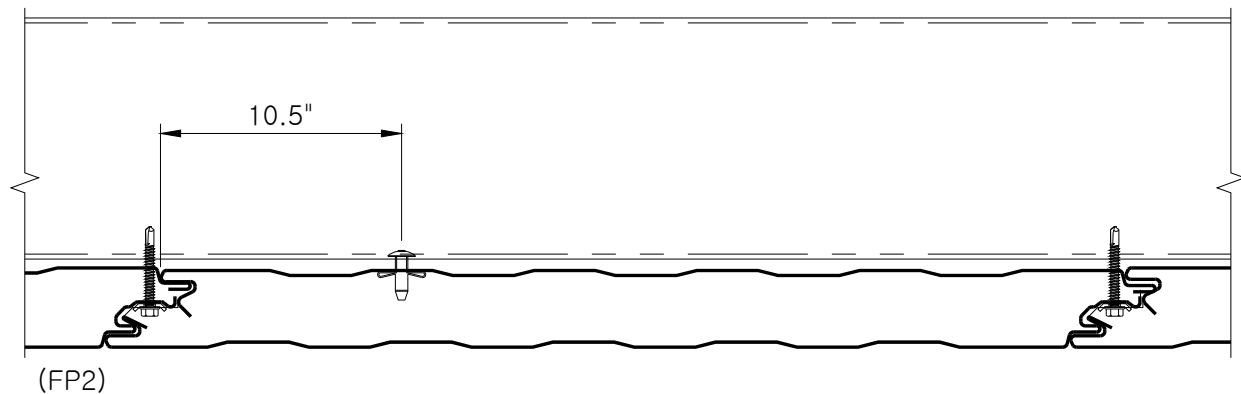


4" SILL EXTRUSION  
[9412A]



FASTENING PATTERN 1  
SIDE JOINT FASTENING

DIMENSION IS FROM  
FEMALE EDGE  $\pm 1.5"$

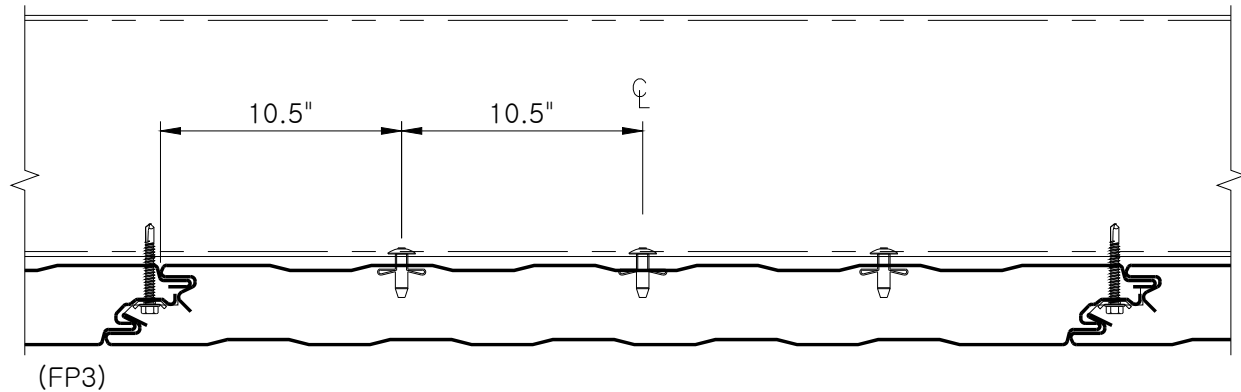


FASTENING PATTERN 2  
SIDE JOINT FASTENING  
AND ONE DOME HEAD  
BULB-TITE® RIVET

INSTALL RIVET THROUGH GIRT FLANGE  
INTO MESA WHERE THE SKIN MAKES  
CONTACT WITH THE STEEL

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)

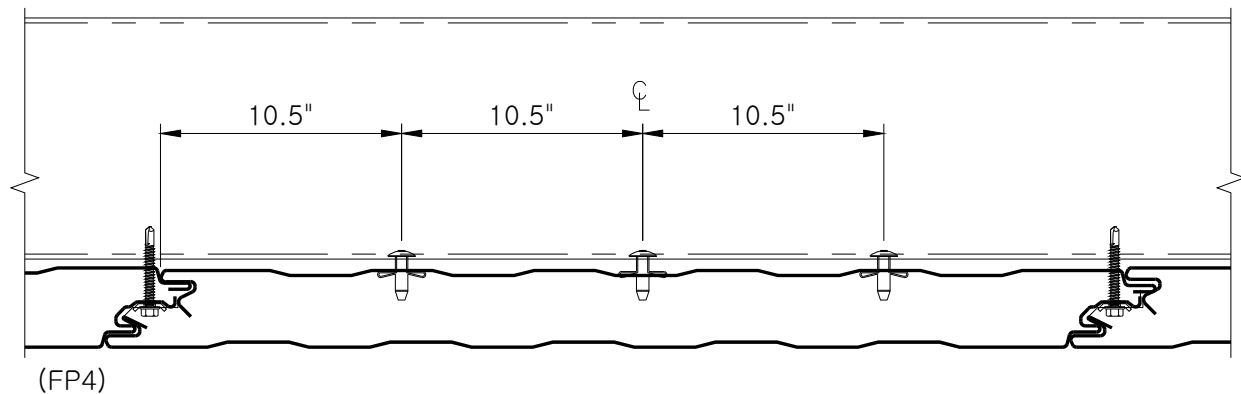
DIMENSION IS FROM  
FEMALE EDGE  $\pm 1.5"$



FASTENING PATTERN 3  
SIDE JOINT FASTENING  
AND TWO DOME HEAD  
BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE  
INTO MESA WHERE THE SKIN MAKES  
CONTACT WITH THE STEEL

DIMENSION IS FROM  
FEMALE EDGE  $\pm 1.5"$

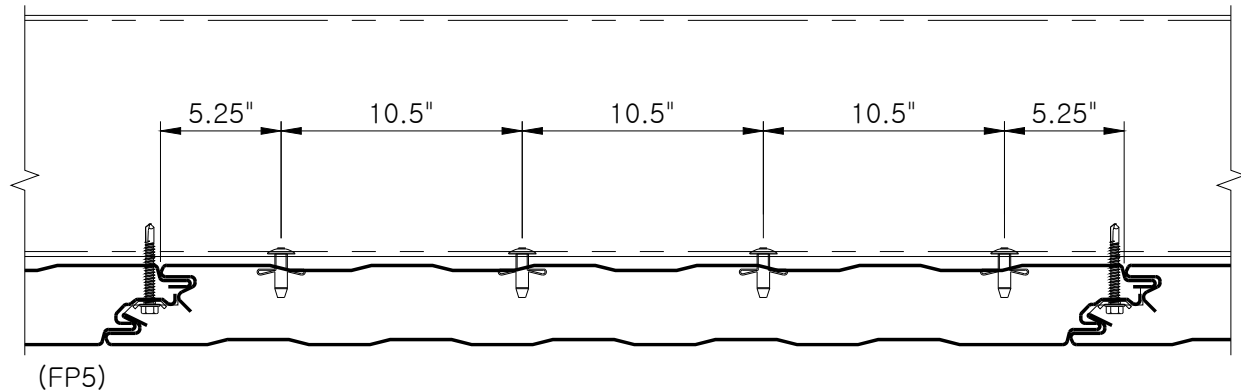


FASTENING PATTERN 4  
SIDE JOINT FASTENING  
WITH THREE DOME HEAD  
BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE  
INTO MESA WHERE THE SKIN MAKES  
CONTACT WITH THE STEEL

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)

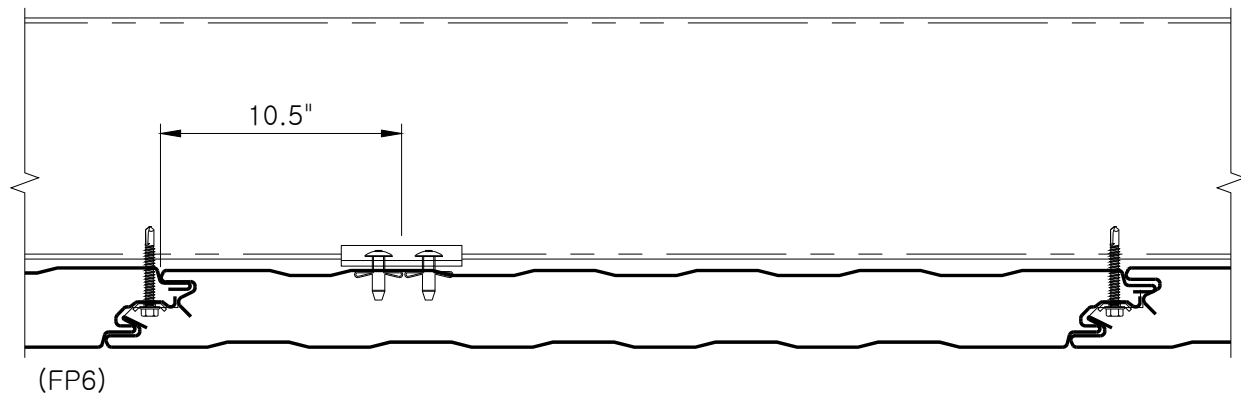
DIMENSION IS FROM  
FEMALE EDGE  $\pm 1.5"$



FASTENING PATTERN 5  
SIDE JOINT FASTENING  
AND BACK FASTENING WITH  
FOUR DOME HEAD BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE  
INTO MESA WHERE THE SKIN MAKES  
CONTACT WITH THE STEEL

DIMENSION IS FROM  
FEMALE EDGE  $\pm 1.5"$

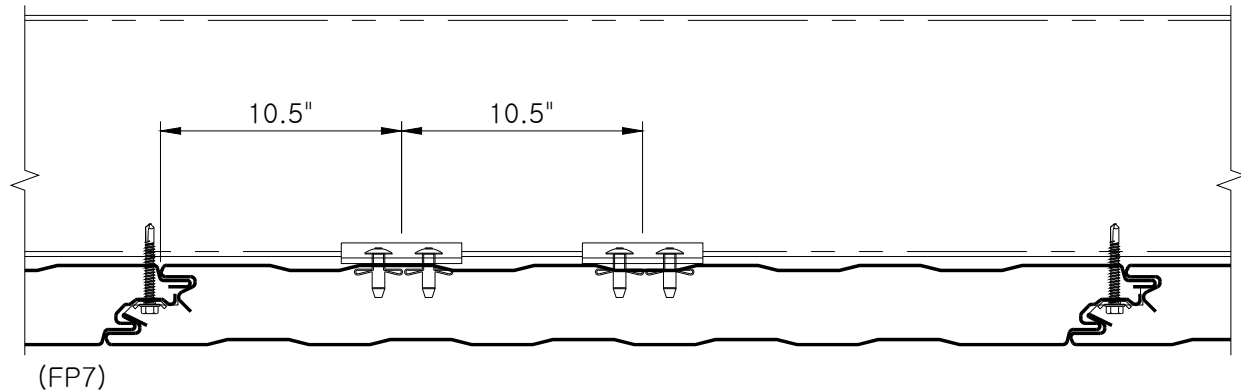


FASTENING PATTERN 6  
SIDE JOINT FASTENING  
AND ONE GIRT CLIP WITH TWO DOME HEAD  
BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE  
INTO MESA WHERE THE SKIN MAKES  
CONTACT WITH THE STEEL

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)

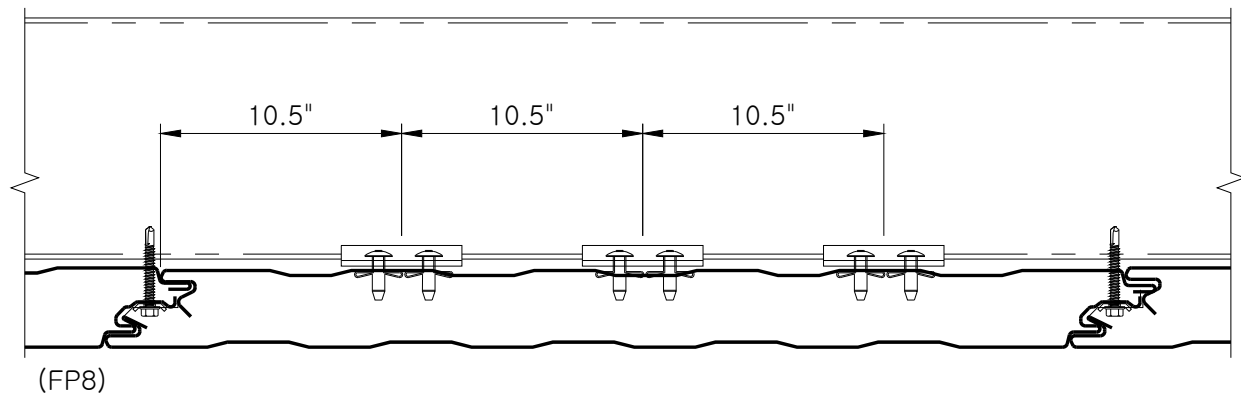
DIMENSION IS FROM  
FEMALE EDGE  $\pm 1.5"$



FASTENING PATTERN 7  
SIDE JOINT FASTENING  
AND TWO GIRT CLIPS WITH FOUR DOME HEAD  
BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE  
INTO MESA WHERE THE SKIN MAKES  
CONTACT WITH THE STEEL

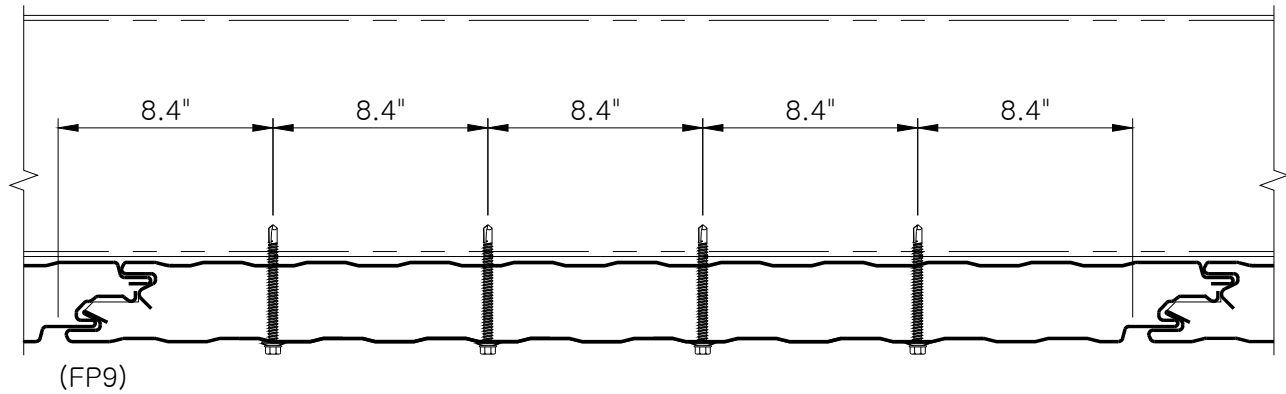
DIMENSION IS FROM  
FEMALE EDGE  $\pm 1.5"$



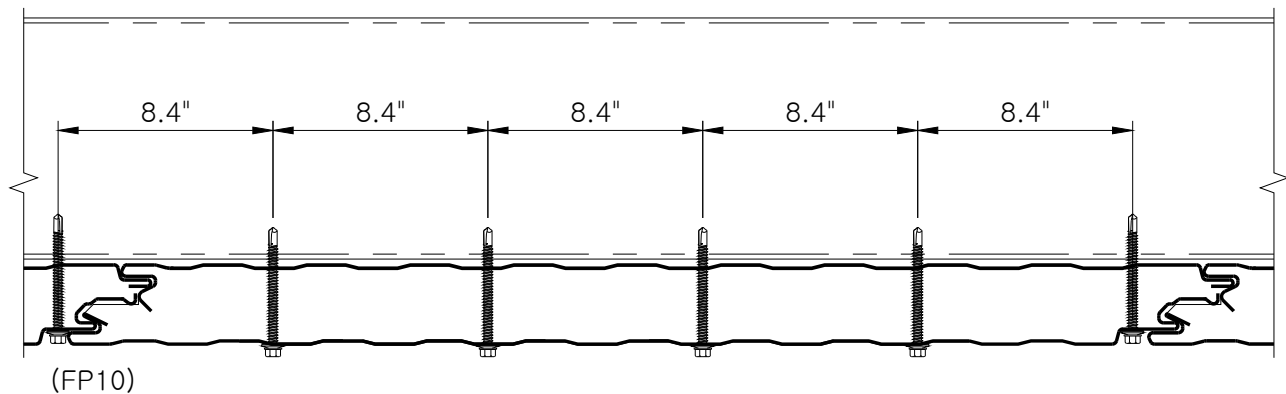
FASTENING PATTERN 8  
SIDE JOINT FASTENING  
WITH THREE GIRT CLIPS WITH SIX DOME HEAD  
BULB-TITE® RIVETS

INSTALL RIVET THROUGH GIRT FLANGE  
INTO MESA WHERE THE SKIN MAKES  
CONTACT WITH THE STEEL

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)

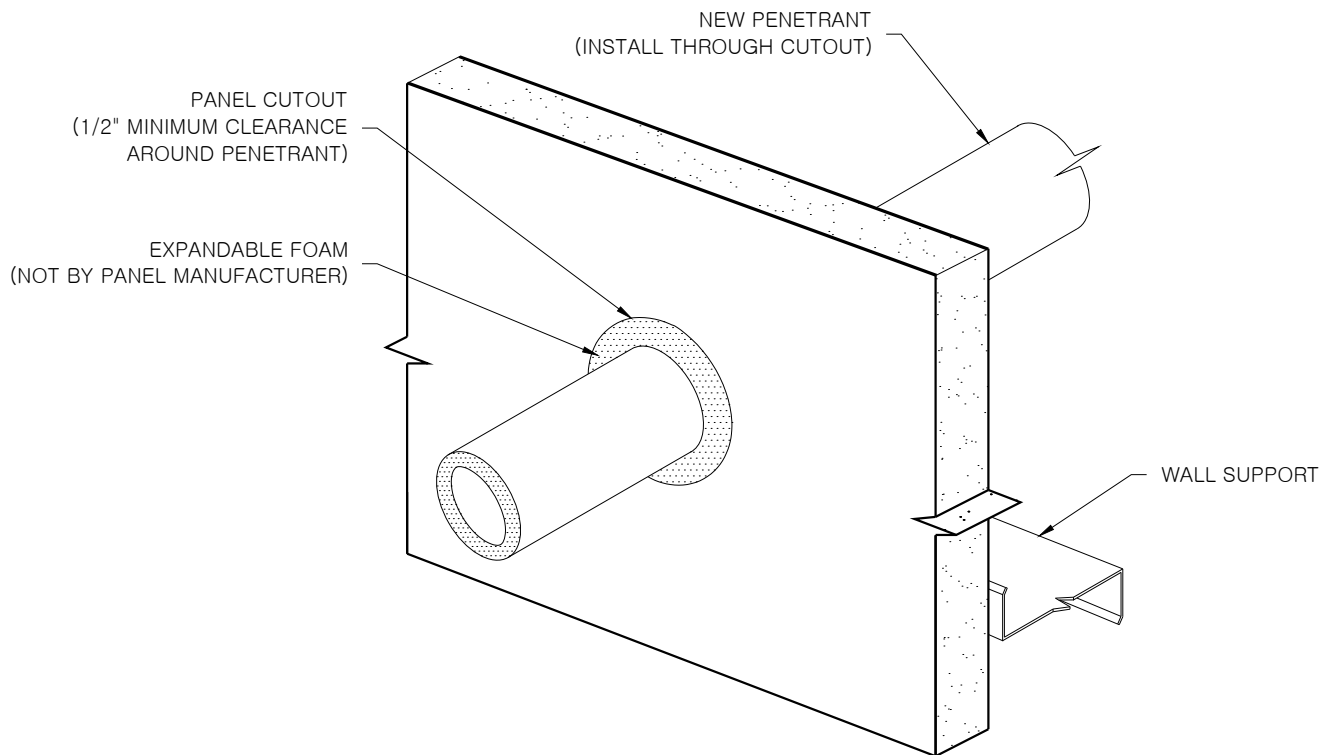


FASTENING PATTERN 9  
WITH FOUR SELF-TAPPING  
SCREWS WITH MIN. 20 GA.  
NEOPRENE BONDED WASHER



FASTENING PATTERN 10  
WITH FIVE SELF-TAPPING  
SCREWS WITH MIN. 20 GA.  
NEOPRENE BONDED WASHER

(CONSULT FACTORY FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)



NEW PENETRANT IN EXISTING WALL

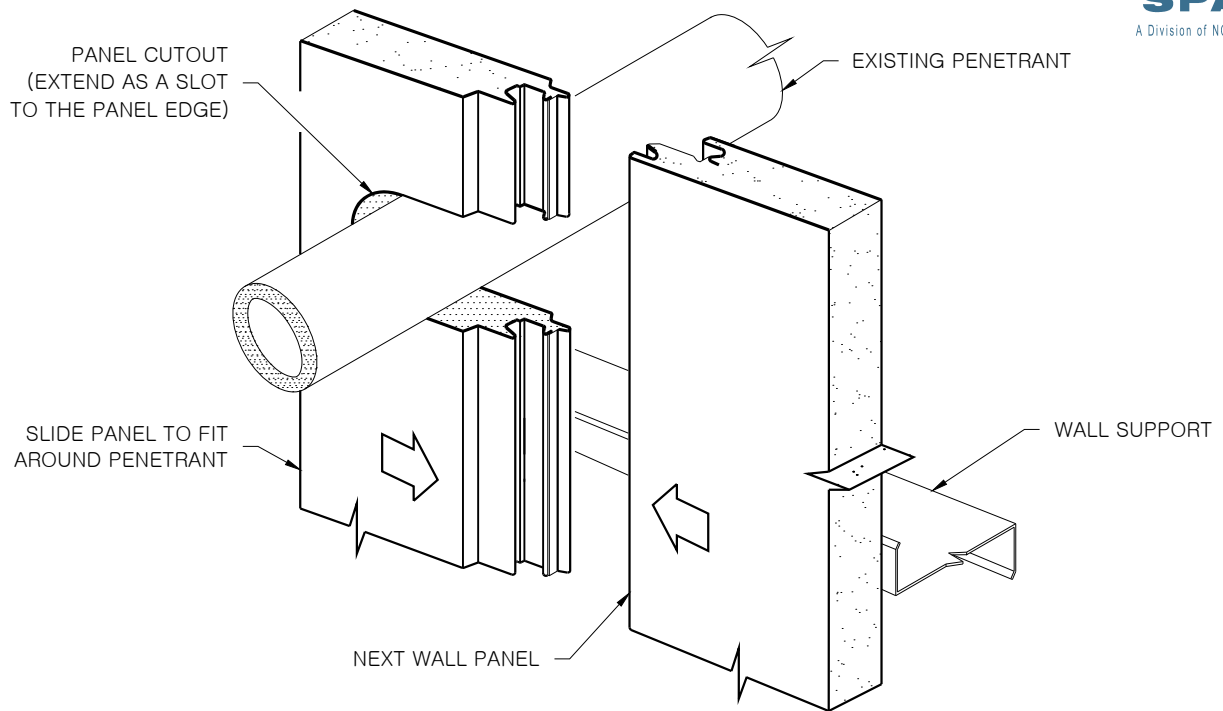
SEE DETAIL CI-CF-PEN-5 FOR FLASHING INFORMATION

COMMERCIAL &  
INDUSTRIAL

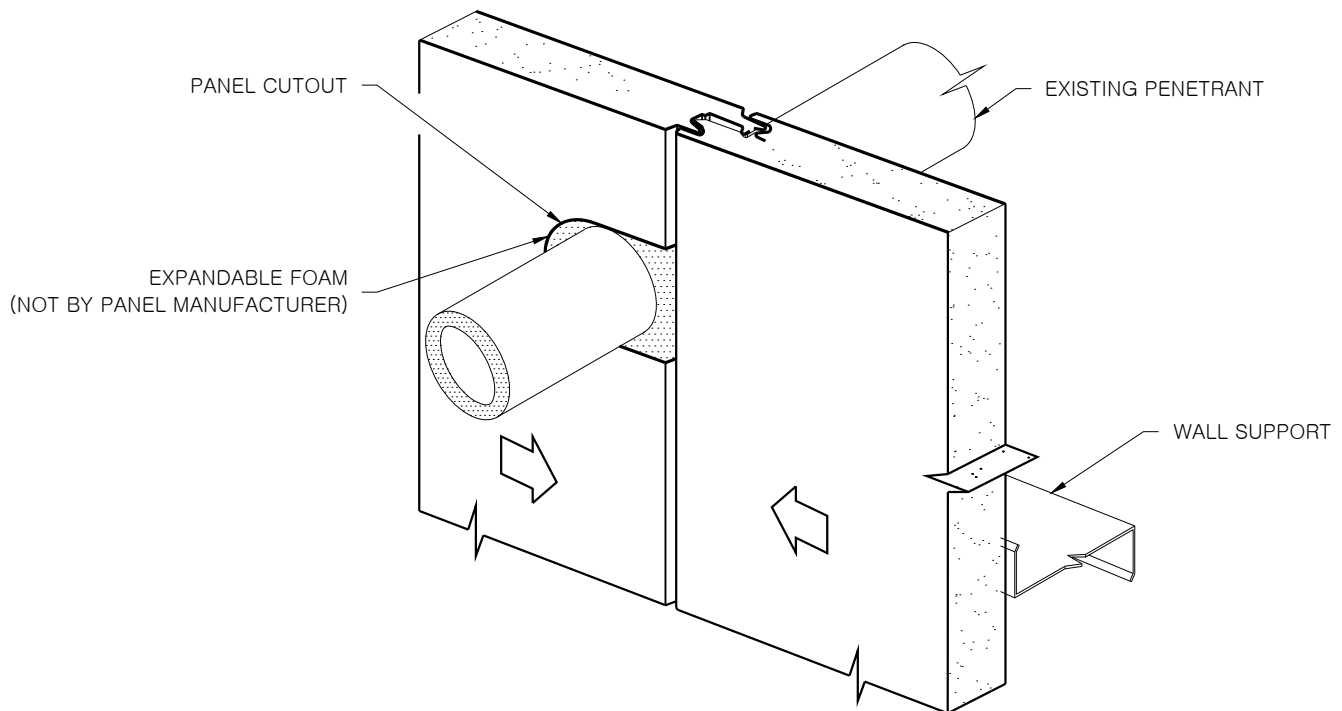
PIPE PENETRATION –  
FIELD OF PANEL

CI-CF-PEN-1  
DATE: Jul '19





### EXISTING PENETRANT IN NEW WALL

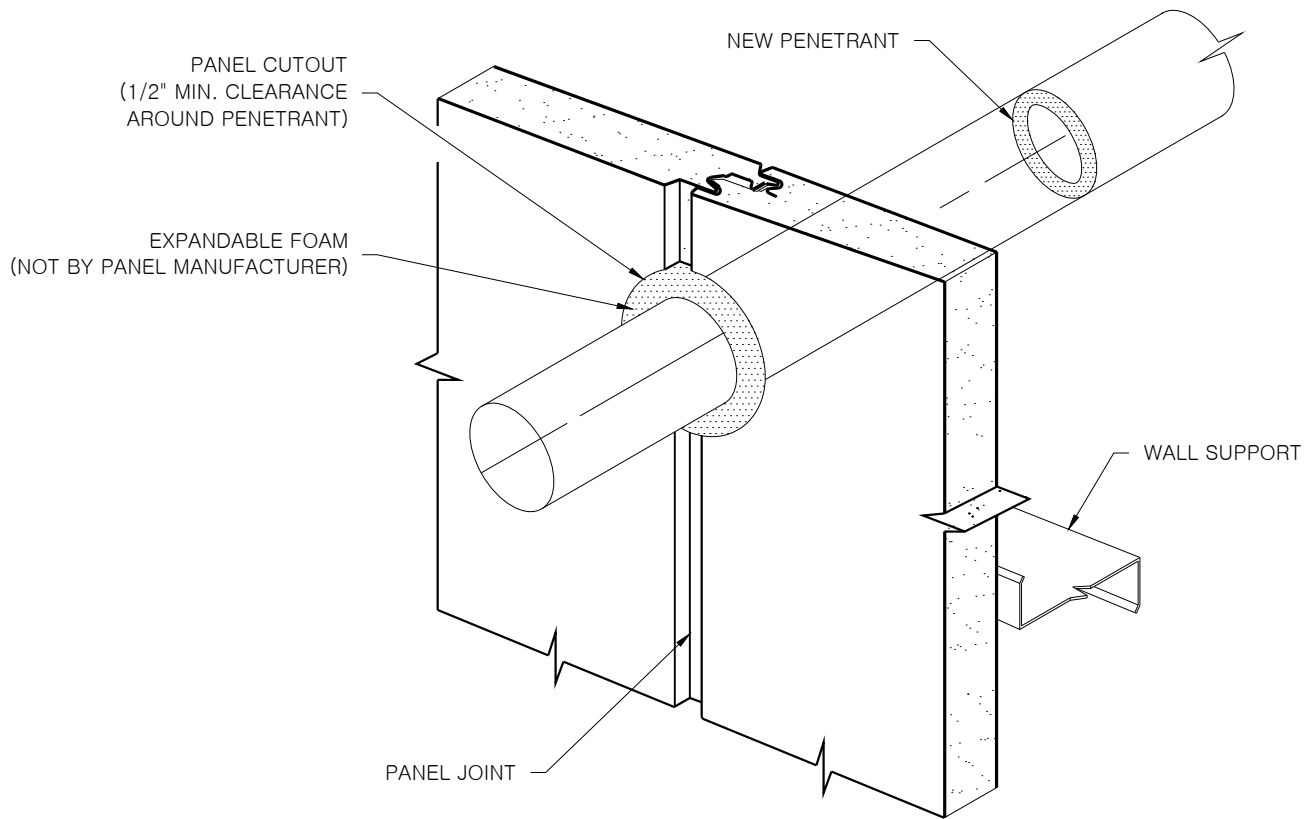


SEE DETAIL CI-CF-PEN-4 FOR SEALANT LOCATIONS  
SEE DETAIL CI-CF-PEN-5 FOR FLASHING INFORMATION

COMMERCIAL &  
INDUSTRIAL

PIPE PENETRATION –  
NOTCHED PANEL

CI-CF-PEN-2  
DATE: Jul '19



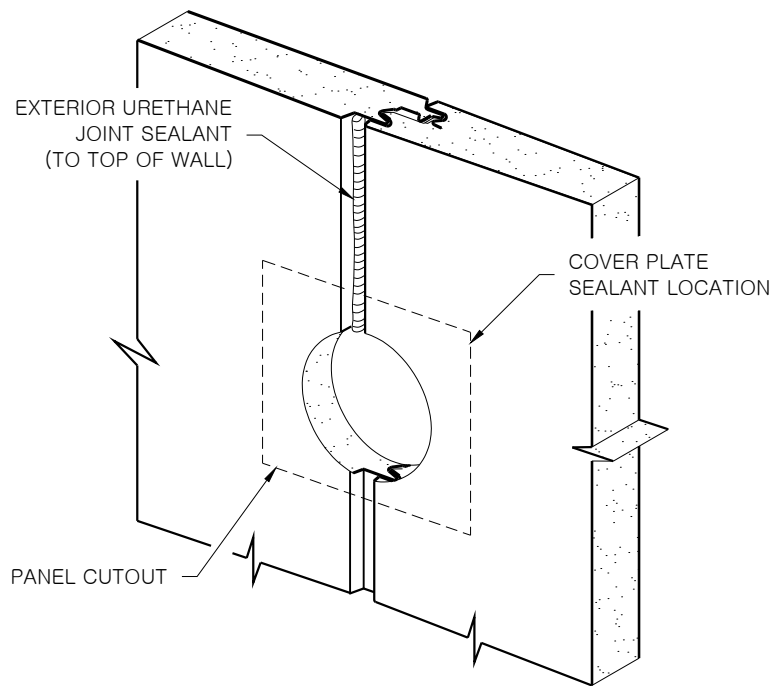
NEW PENETRATION IN EXISTING WALL AT PANEL JOINTS

SEE DETAIL CI-CF-PEN-4 FOR SEALANT LOCATIONS

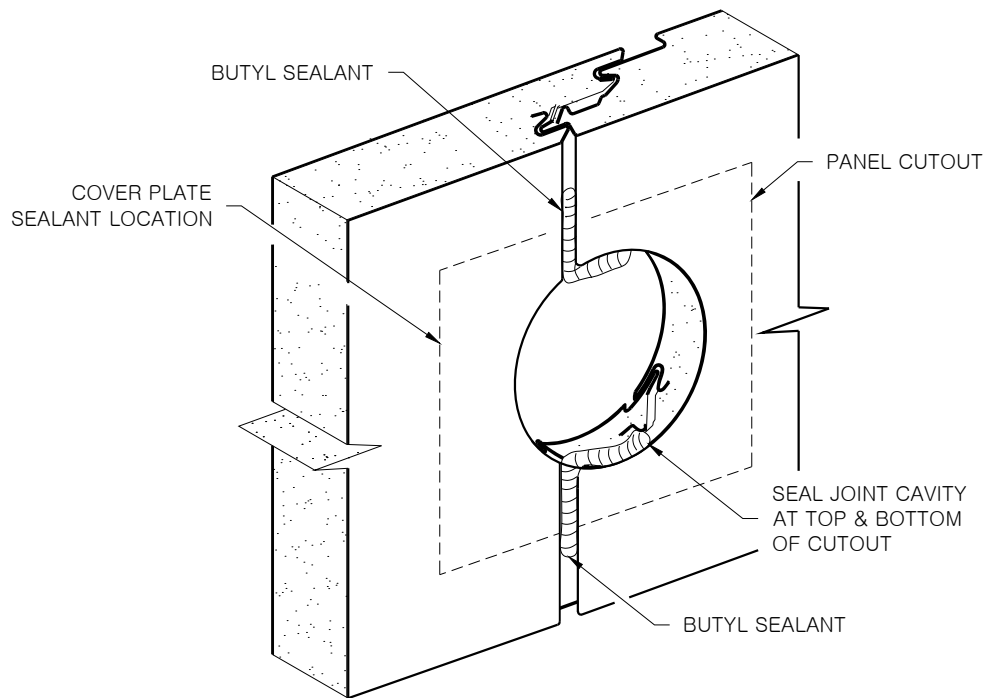
COMMERCIAL &  
INDUSTRIAL

PIPE PENETRATION –  
AT PANEL JOINT

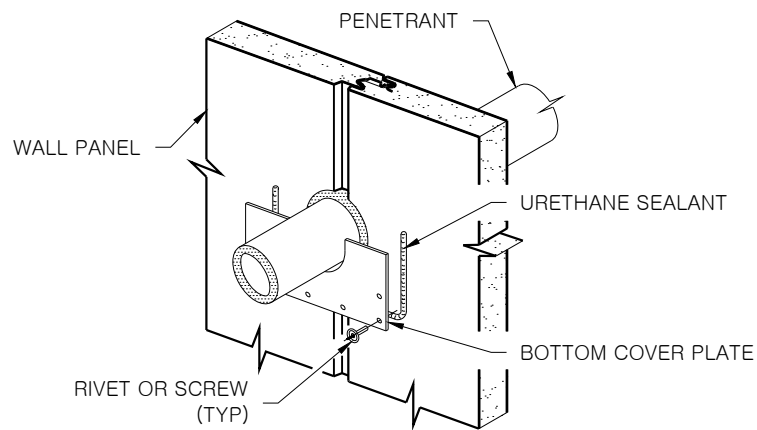
CI-CF-PEN-3  
DATE: Jul '19



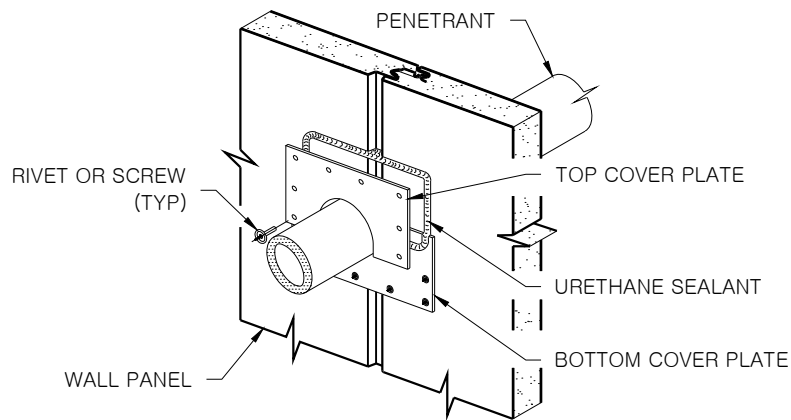
EXTERIOR WEATHER SEAL (NEW PENETRANT, EXISTING WALL)



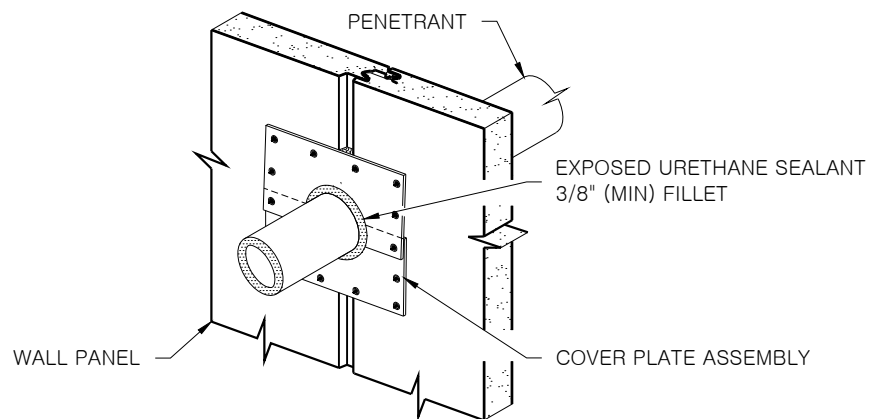
INTERIOR AIR/VAPOR SEAL (NEW PENETRANT, EXISTING WALL)



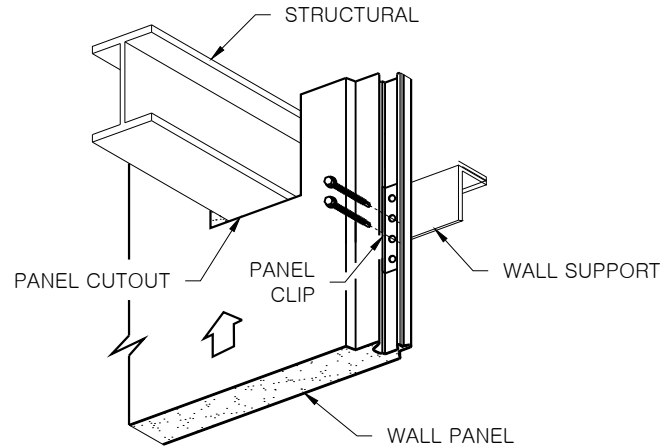
BOTTOM COVER PLATE INSTALLATION



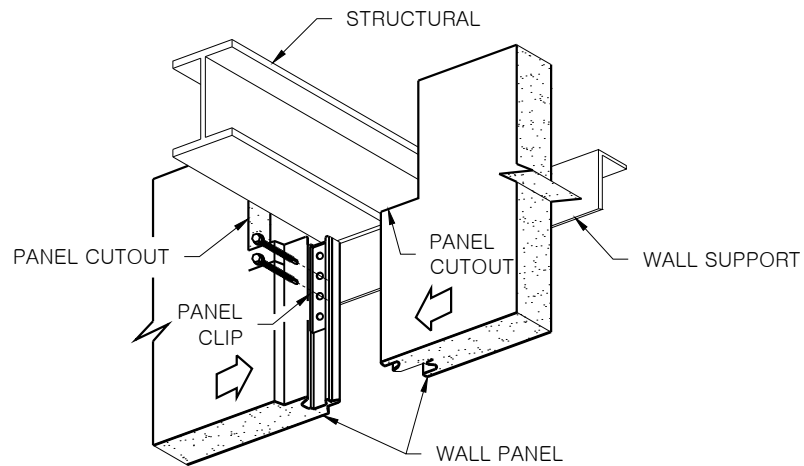
TOP COVER PLATE INSTALLATION



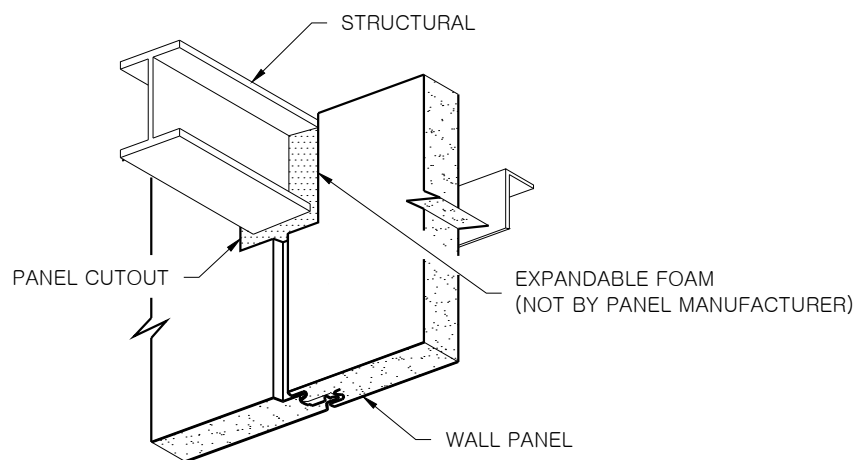
PENETRATION PERIMETER SEAL



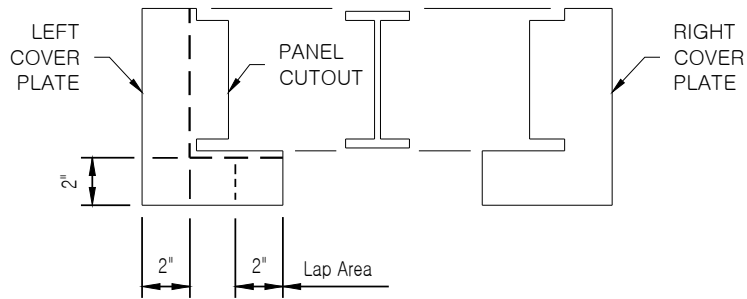
PANEL CUTOUT (AT CENTER OF PANEL)



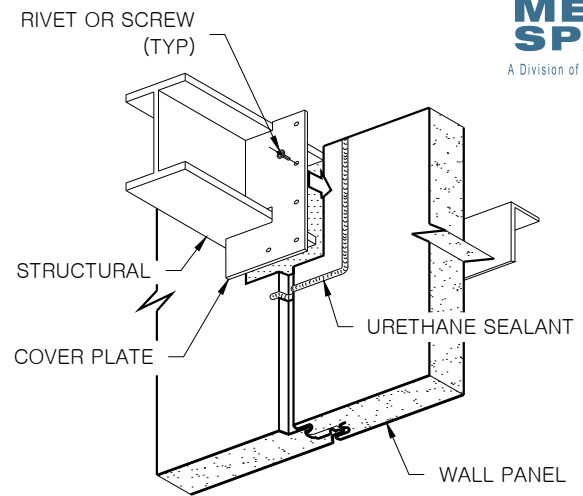
PANEL CUTOUT (AT PANEL JOINT)



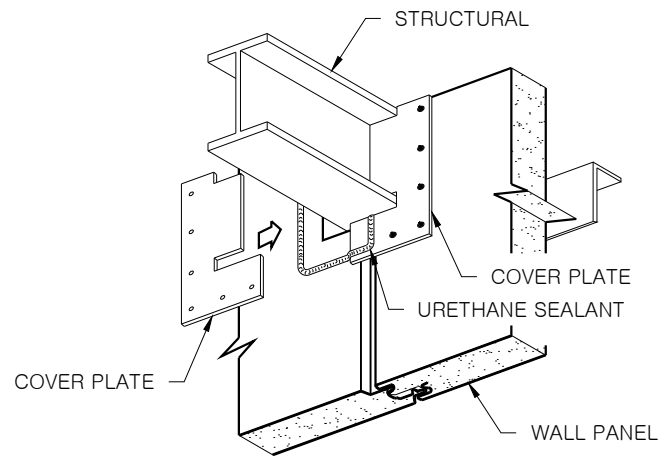
FILLER INSULATION



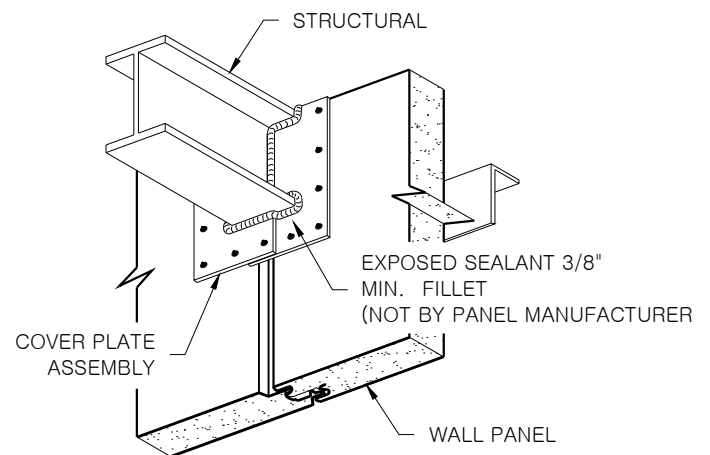
COVER PLATE LAYOUT



RIGHT COVER PLATE INSTALLATION



LEFT COVER PLATE INSTALLATION



PENETRATION PERIMETER SEAL