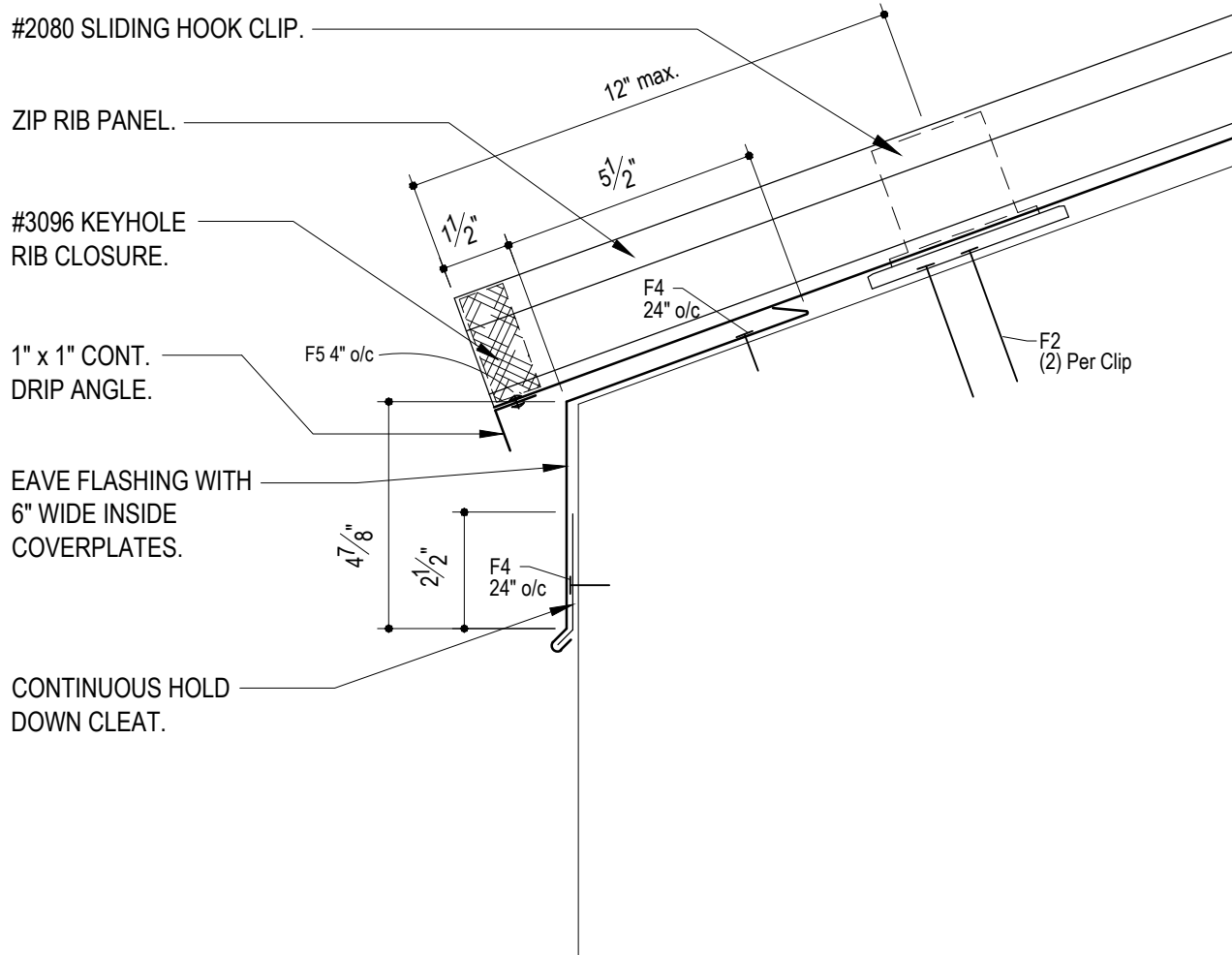


ZIP-RIB Detail Plates

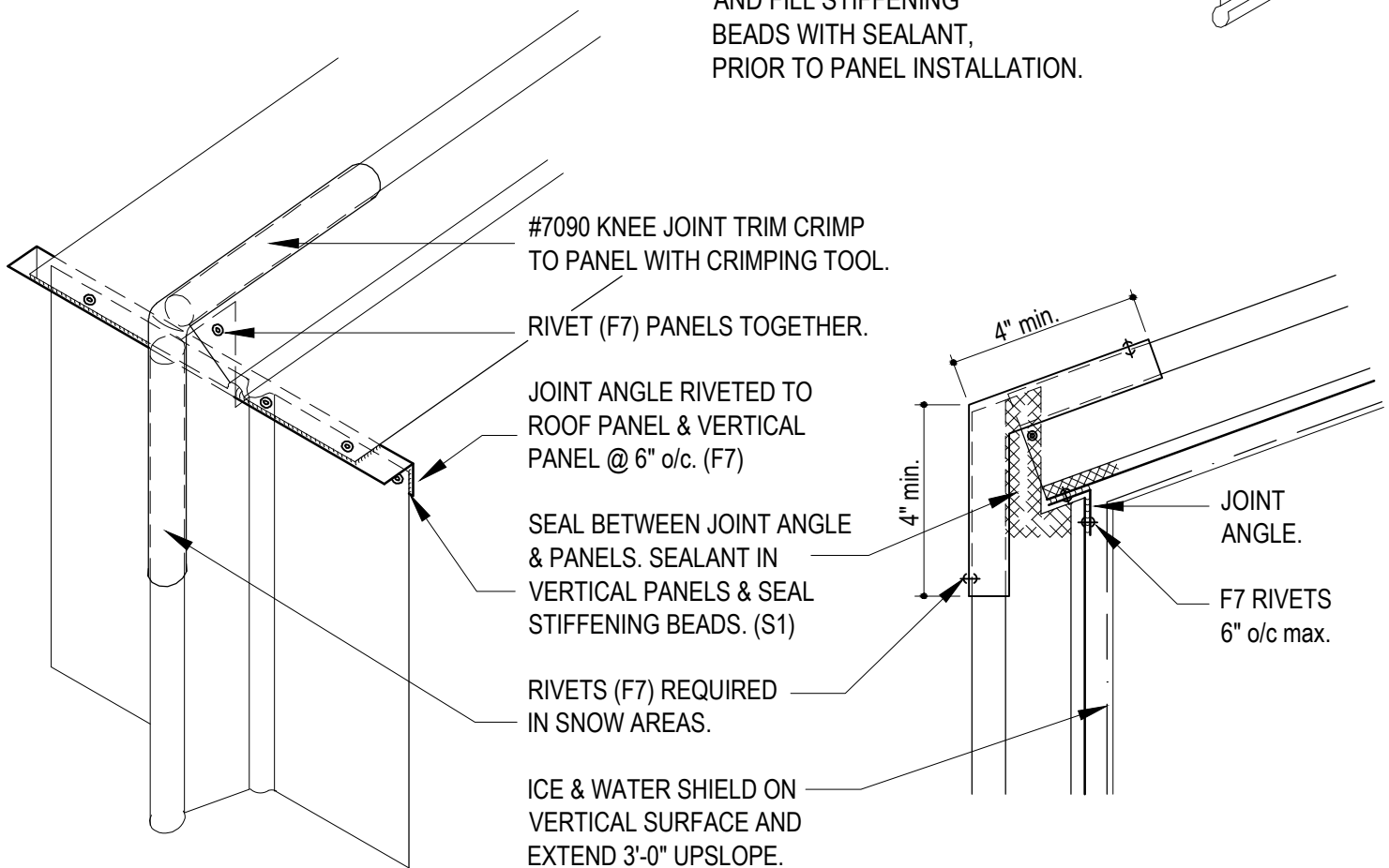
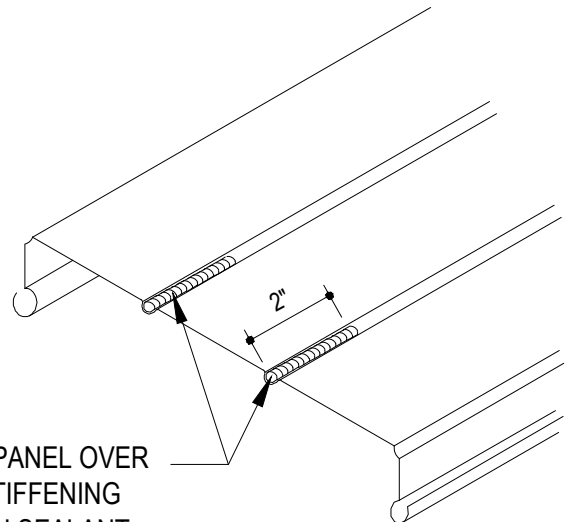
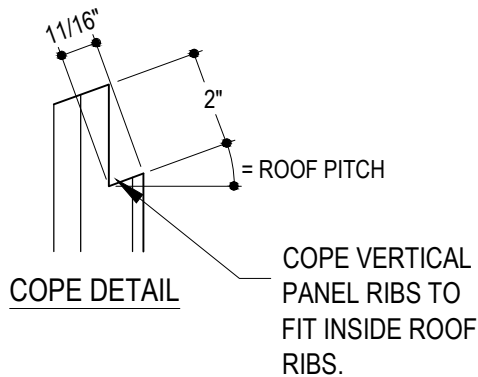
Plate No.	Description	Plate No.	Description
ZR - 101	EAVE	ZR - 505	SIDEWALL
ZR - 102	TWO PIECE KNEE JOINT	ZR - 506	RADIUS SIDEWALL
ZR - 103	ONE PIECE KNEE JOINT	ZR - 507	SIDEWALL STEP FLASHING
ZR - 201	GUTTER	ZR - 508	SIDEWALL AT SIDING
ZR - 202	BUILT IN GUTTER (Coping)	ZR - 509	SEALED SIDEWALL
ZR - 203	BUILT IN GUTTER (Panel)	ZR - 601	CURB FLASHING ISOMETRIC
ZR - 204	INTERNAL GUTTER	ZR - 602	CURB DETAIL - C1
ZR - 301	FIXED RIDGE (Behind Closure)	ZR - 603	CURB DETAIL - C2
ZR - 302	FIXED RIDGE (Thru-Bolt)	ZR - 604	CURB DETAIL - C3
ZR - 303	SLIP RIDGE	ZR - 605	CURB DETAIL - C4
ZR - 304	VENTED RIDGE	ZR - 606	PIPE PENETRATION (Rubber Boot)
ZR - 304a	LOW PROFILE VENTED RIDGE	ZR - 607	PIPE PENETRATION (Alum Base)
ZR - 305	PAN END DETAIL	ZR - 607i	PIPE PENETRATION (Alum Base) INSTALLATION
ZR - 306	RIDGE / HEADWALL CLOSURES	ZR - 608	BEAM PENETRATION (Alum Base)
ZR - 307	FIXED HIP (Behind Closure)	ZR - 608i	BEAM PENETRATION (Alum Base) INSTALLATION
ZR - 308	FIXED HIP (Thru-Bolt)	ZR - 701	EXPANSION JOINT
ZR - 309	SLIP HIP	ZR - 702	RADIUS EXPANSION JOINT
ZR - 310	VENTED HIP	ZR - 703	EXPANSION JOINT AT SIDEWALL
ZR - 311	HIP CLOSURES	ZR - 801	SLOPE TRANSITION
ZR - 312	HIP CLOSURE INSTALLATION	ZR - 802	HIP / RAKE
ZR - 313	FIXED HEADWALL (Behind Closure)	ZR - 803	HIP / SIDEWALL
ZR - 314	FIXED HEADWALL (Thru-Bolt)	ZR - 804	VALLEY / SIDEWALL
ZR - 315	SLIP HEADWALL	ZR - 805	CORNER DETAILS
ZR - 316	VENTED HEADWALL	ZR - 806	WINDOW HEAD, SILL & JAMB
ZR - 316a	LOW PROFILE VENTED HEADWALL	ZR - 901	FASTENER & SEALANTS
ZR - 317	PEAK	ZR - 902	ZIP RIB PANEL LAP
ZR - 318	SLIP PEAK	ZR - 903	FIX POINT DETAILS
ZR - 319	VENTED PEAK	ZR - 904	S5Z COLORGARD SNOWGUARD
ZR - 401	VALLEY	ZR - 904a	S5Z WITH ALPINE SNOWGUARD
ZR - 501	GABLE	ZR - 905	FREE SPAN CANOPY
ZR - 502	SEALED GABLE	ZR - 906	SOLAR PANEL SYSTEM
ZR - 503	RADIUS GABLE	ZR - 907	FALL PROTECTION SYSTEM
ZR - 504	GABLE AT STEPPED EAVE	ZR - 908	FLASHING LAPS
ZR - 504a	GABLE AT STEPPED EAVE (Diverter)		

Detail Plates are available on our website in PDF and AutoCAD DWG.

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TWO PIECE KNEE JOINT



ISOMETRIC

SECTION

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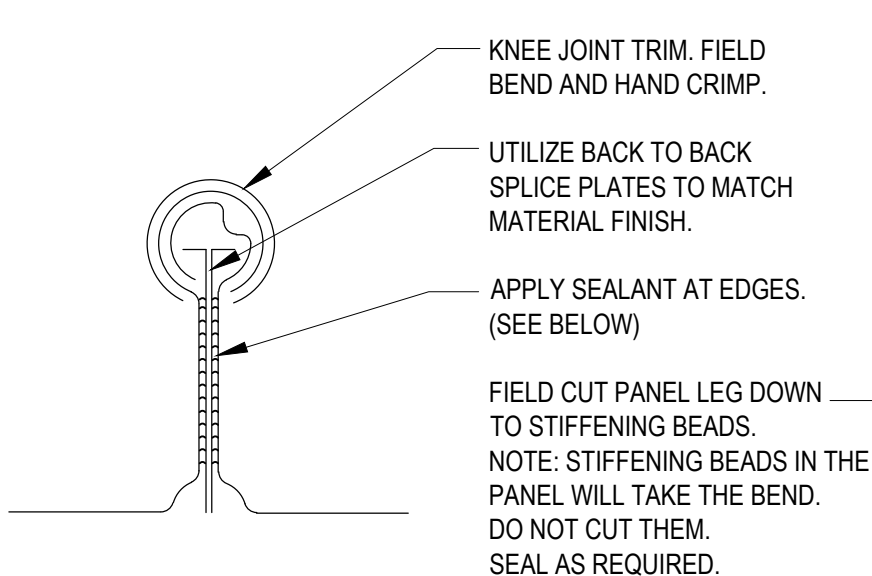
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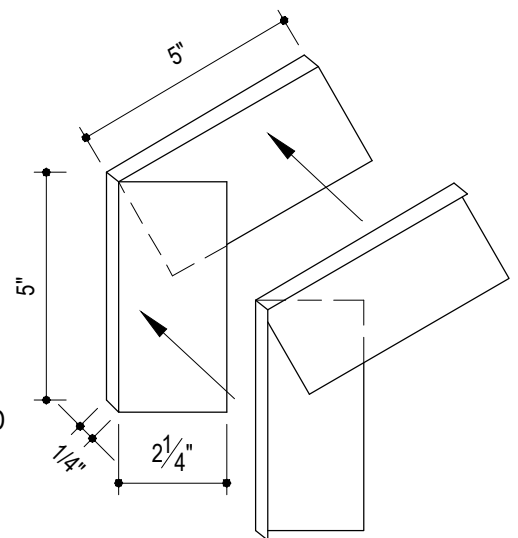
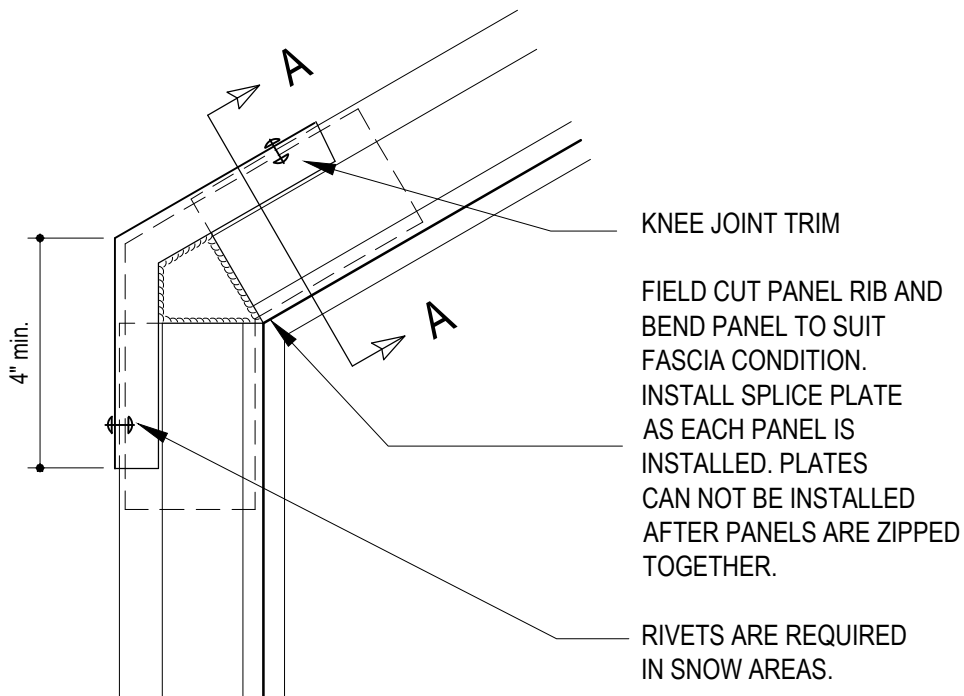
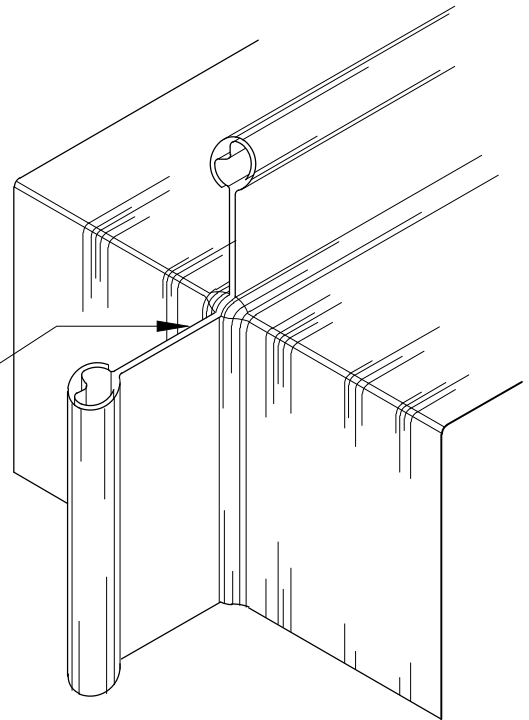


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ONE PIECE KNEE JOINT

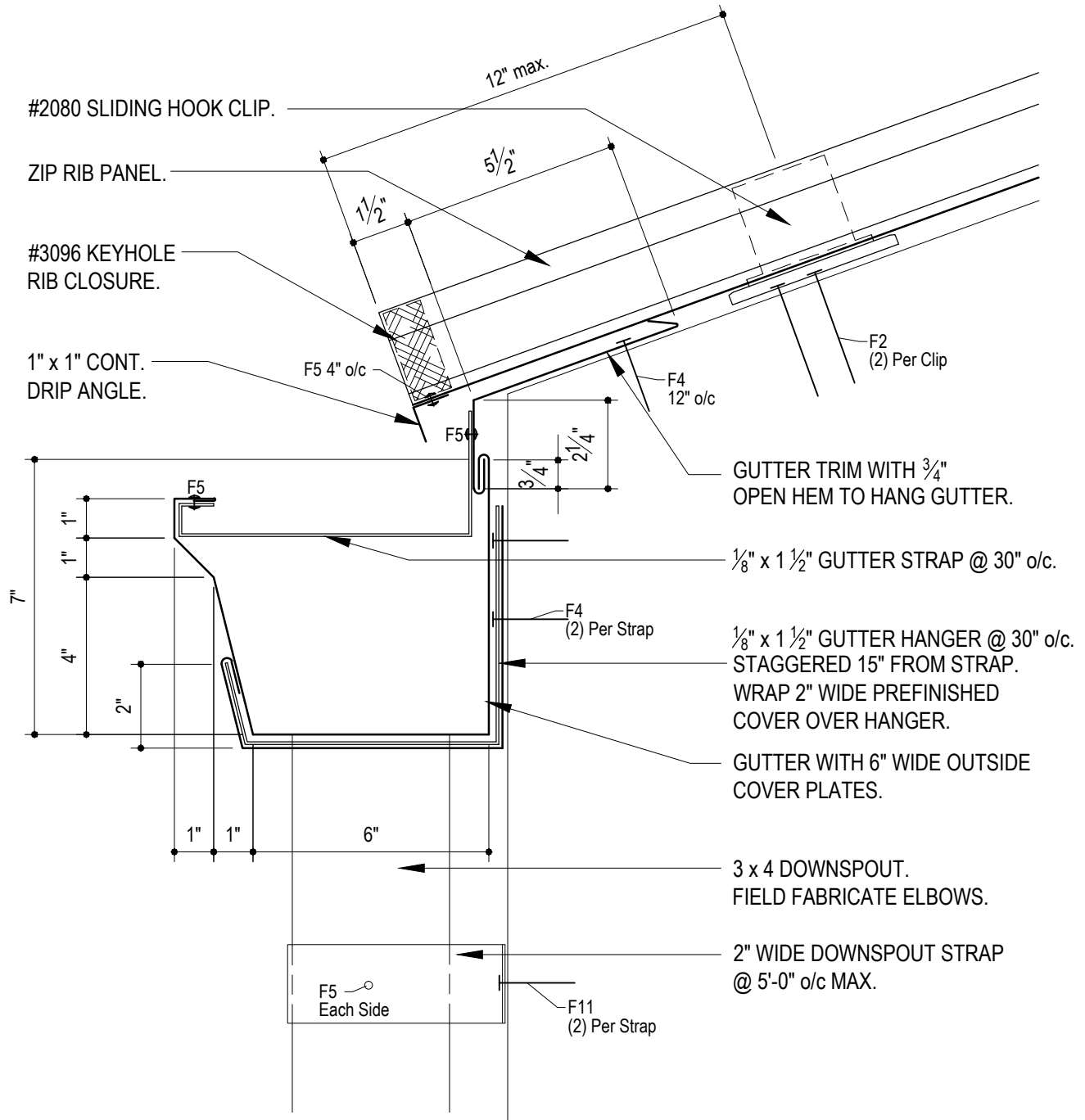


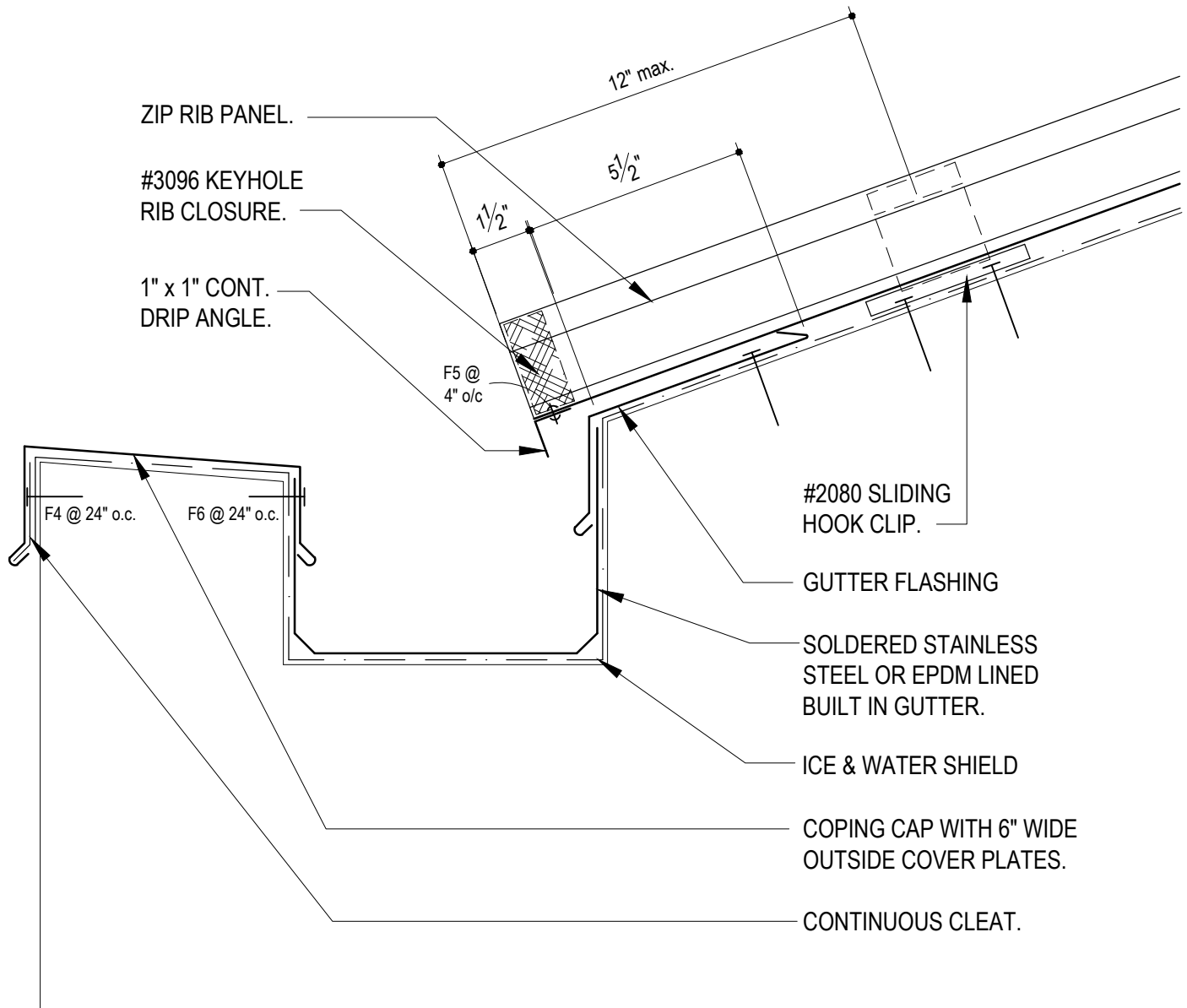
SECTION - "A"



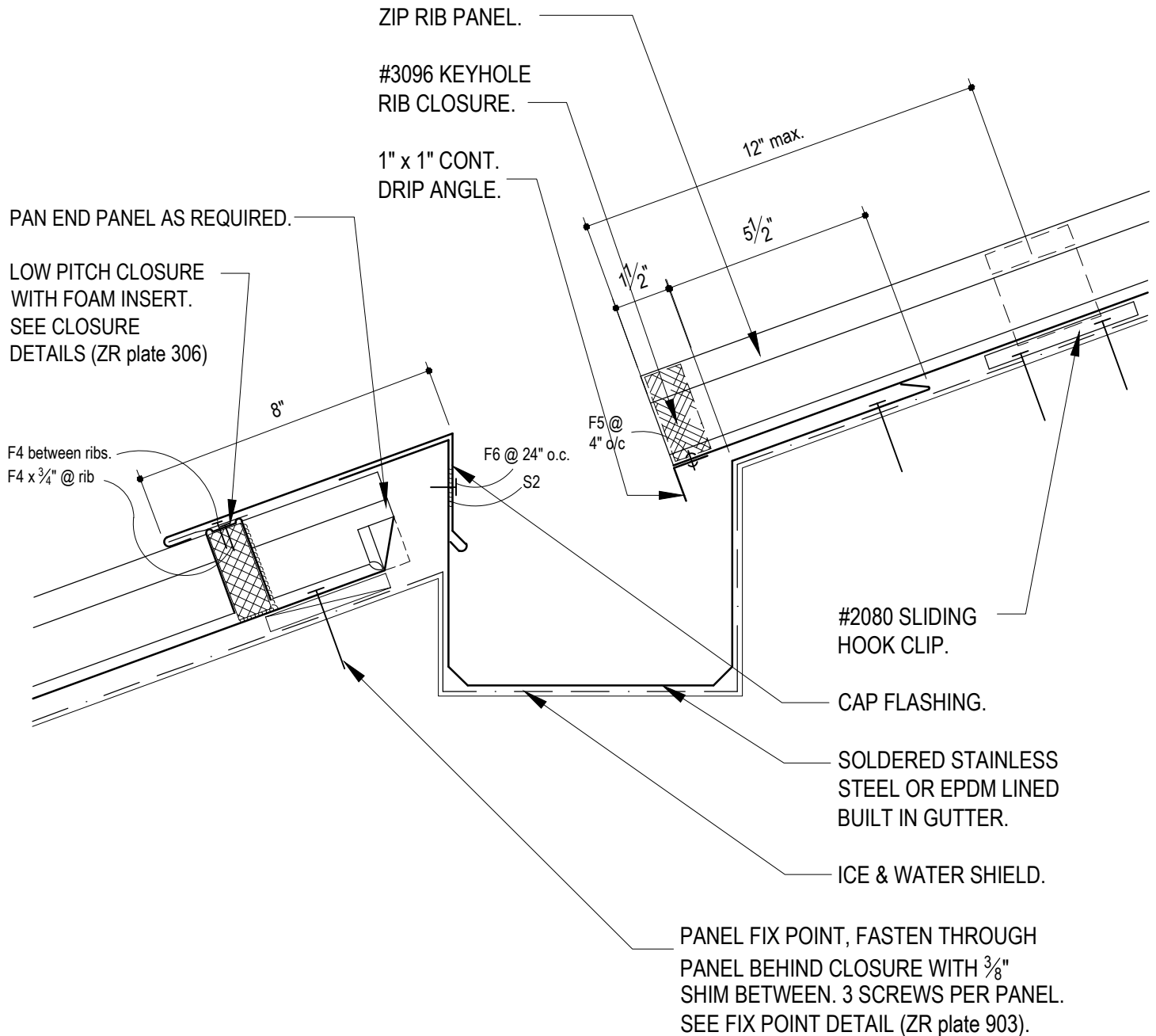
ONE PIECE ROOF TO FASCIA DETAIL

THIS DETAIL WILL ONLY WORK IN 22 GA. STEEL

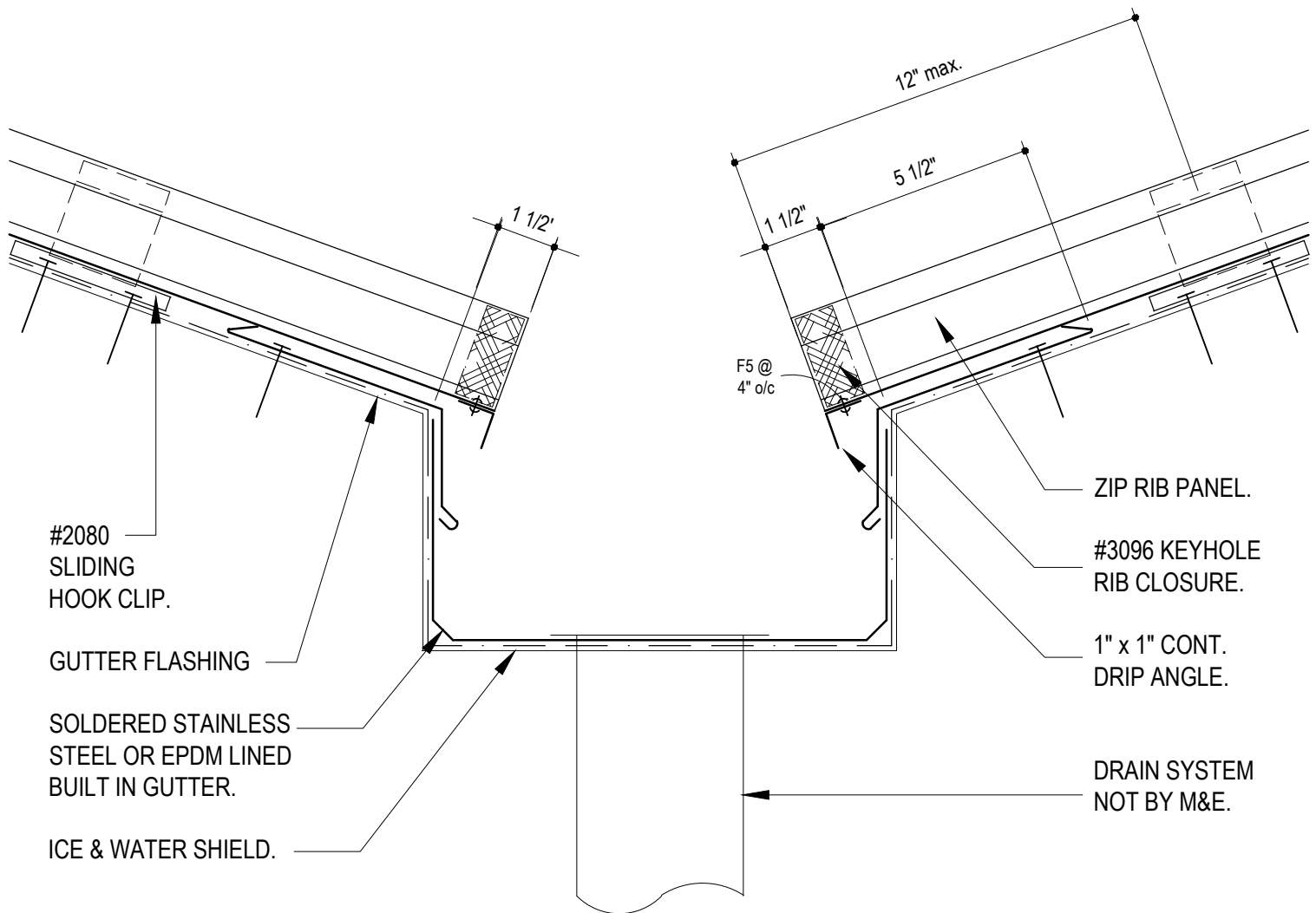




BUILT-IN GUTTER



INTERNAL GUTTER



RIDGE FIXED BEHIND CLOSURE

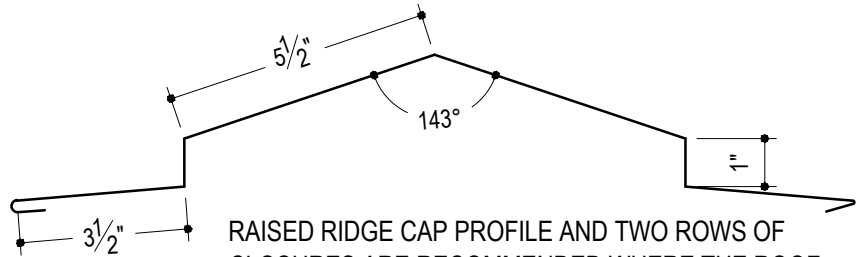
RIDGE FLASHING WITH 6" WIDE OUTSIDE COVER PLATES. FASTEN FLASHING TO CLOSURE BETWEEN EACH PANEL RIB.

3" CLEARANCE IS REQUIRED BETWEEN PANELS FOR PAN END TOOL. SEE PAN END DETAIL. (ZR plate 305)

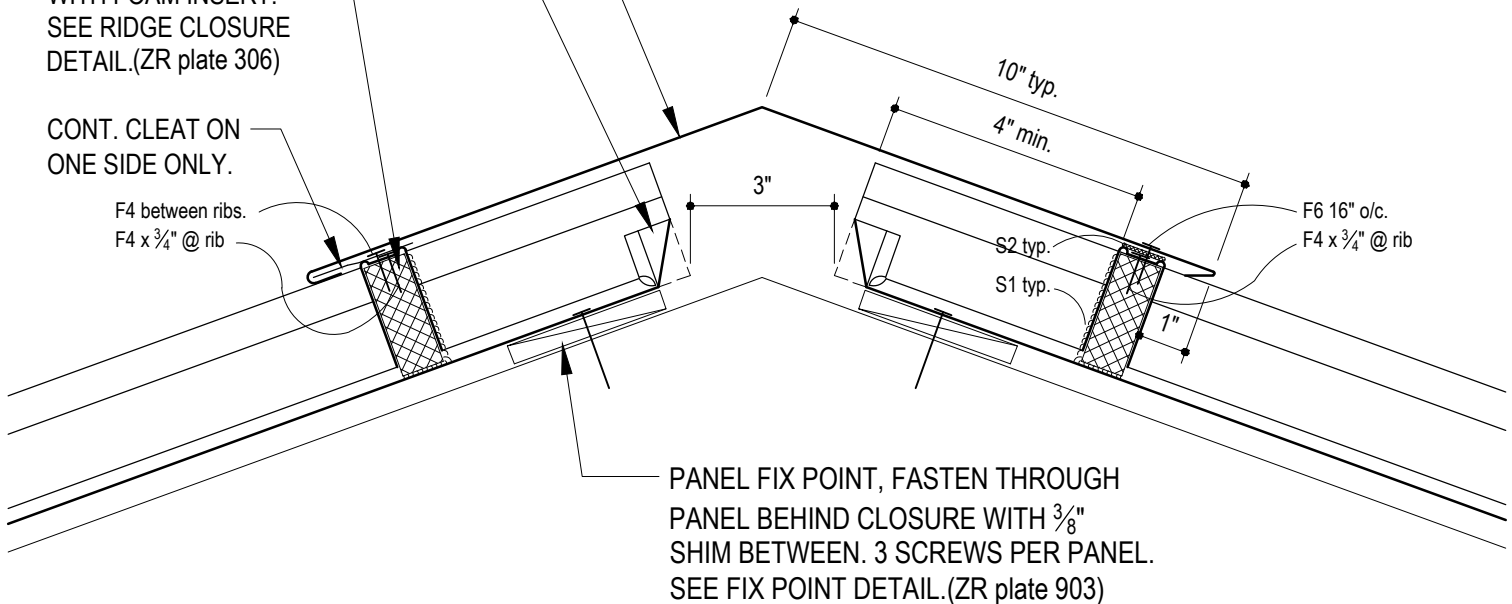
LOW PITCH CLOSURE WITH FOAM INSERT. SEE RIDGE CLOSURE DETAIL.(ZR plate 306)

CONT. CLEAT ON ONE SIDE ONLY.

F4 between ribs.
F4 x 3/4" @ rib



RAISED RIDGE CAP PROFILE AND TWO ROWS OF CLOSURES ARE RECOMMENDED WHERE THE ROOF SLOPE IS 2 ON 12 OR LESS.

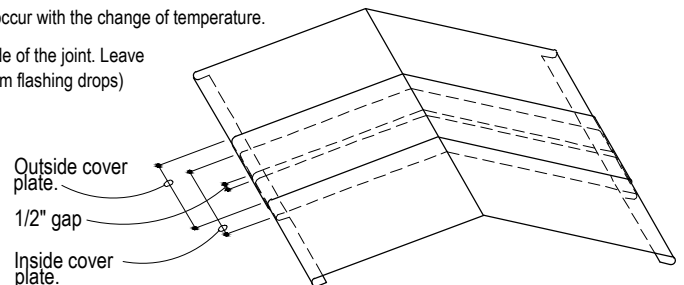
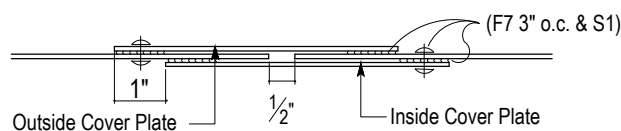


PANEL FIX POINT, FASTEN THROUGH PANEL BEHIND CLOSURE WITH 3/8" SHIM BETWEEN. 3 SCREWS PER PANEL. SEE FIX POINT DETAIL.(ZR plate 903)

Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

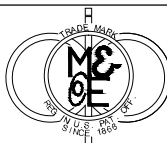
Expansion joints are required every 30' for aluminum and every 50' for steel.



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RIDGE FLASHING WITH 6" WIDE
OUTSIDE COVER PLATES.
FASTEN FLASHING TO CLOSURE
BETWEEN EACH PANEL RIB.

3" CLEARANCE IS REQUIRED
BETWEEN PANELS FOR PAN
END TOOL. SEE PAN END
DETAIL. (ZR plate 305)

LOW PITCH CLOSURE
WITH FOAM INSERT.
SEE RIDGE CLOSURE
DETAIL. (ZR plate 306)

CONT. CLEAT ON
ONE SIDE ONLY.

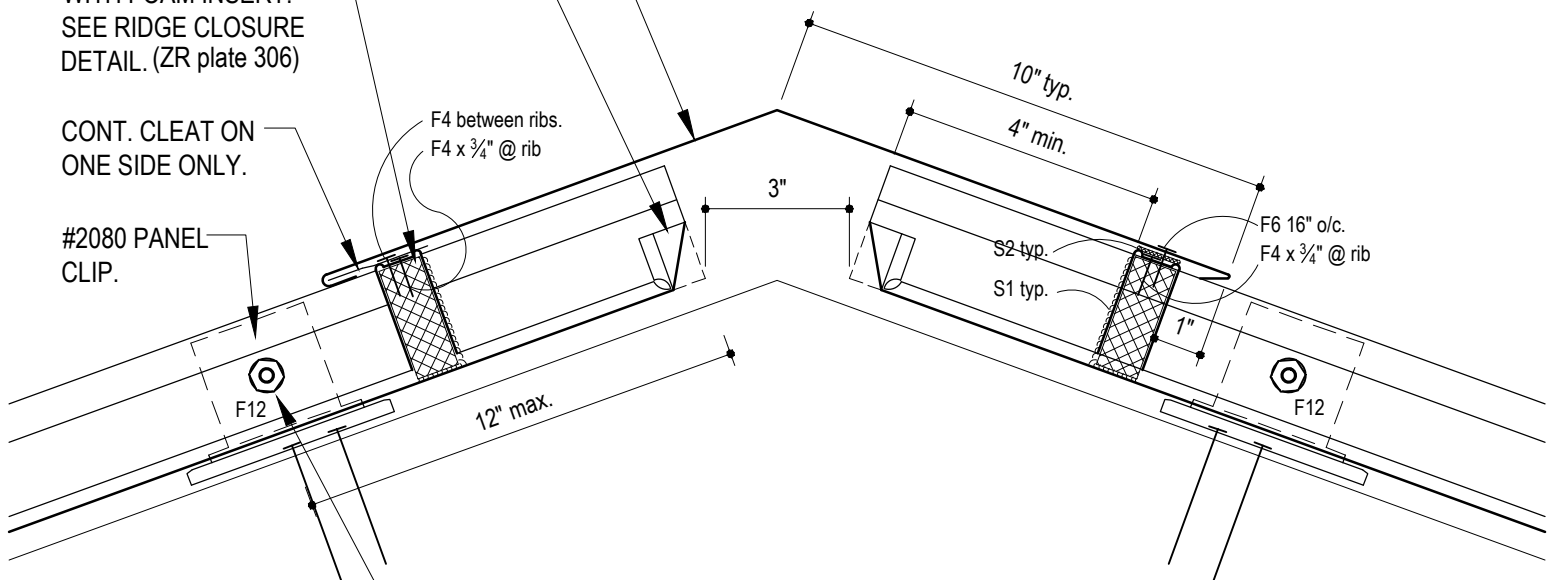
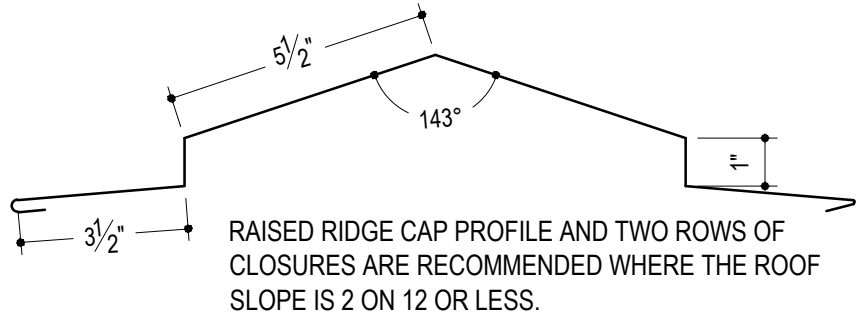
#2080 PANEL
CLIP.

F4 between ribs.
F4 x 3/4" @ rib

F12

12" max.

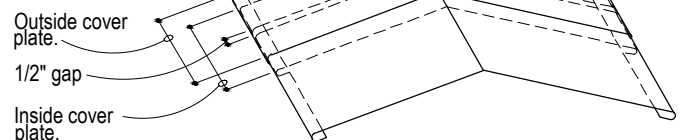
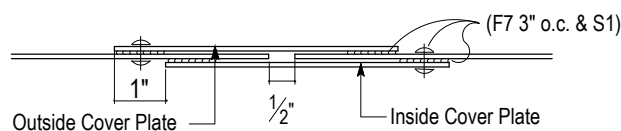
FIX PANEL CLIP WITH THRU-BOLT.
SEE FIX CLIP DETAIL. (ZR plate 903)



Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

Expansion joints are required every 30' for aluminum and every 50' for steel.



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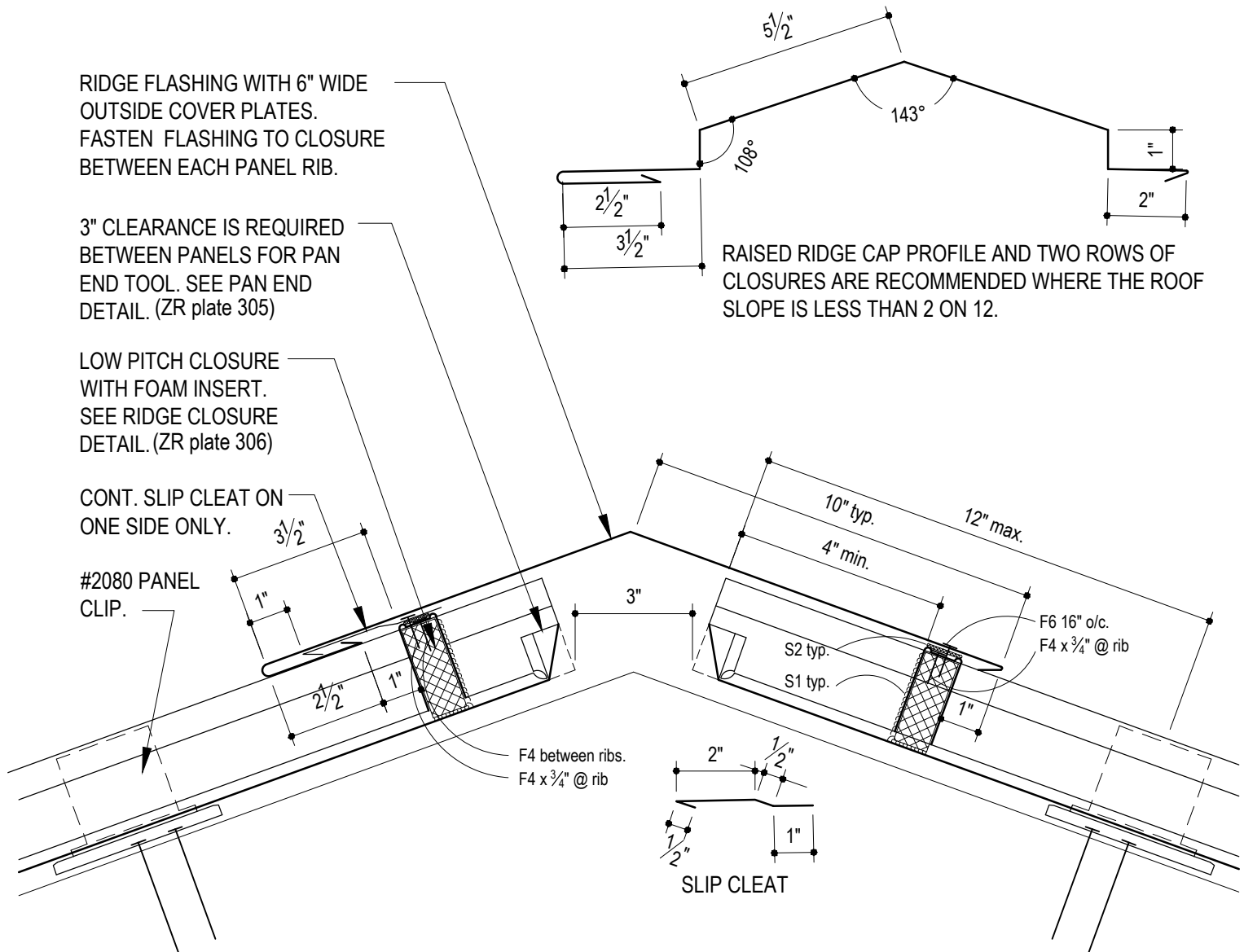
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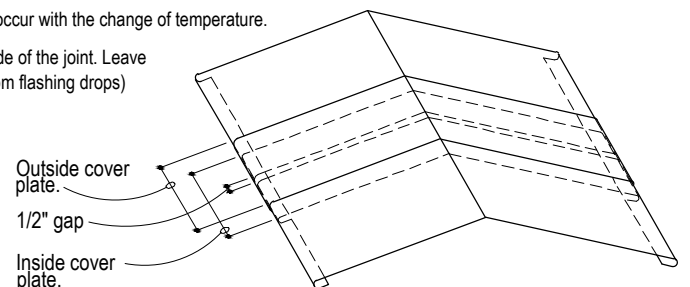
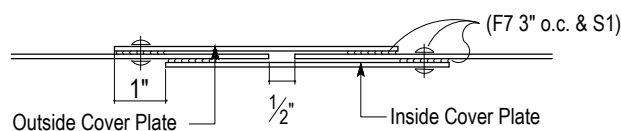
SLIP RIDGE



Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

Expansion joints are required every 30' for aluminum and every 50' for steel.



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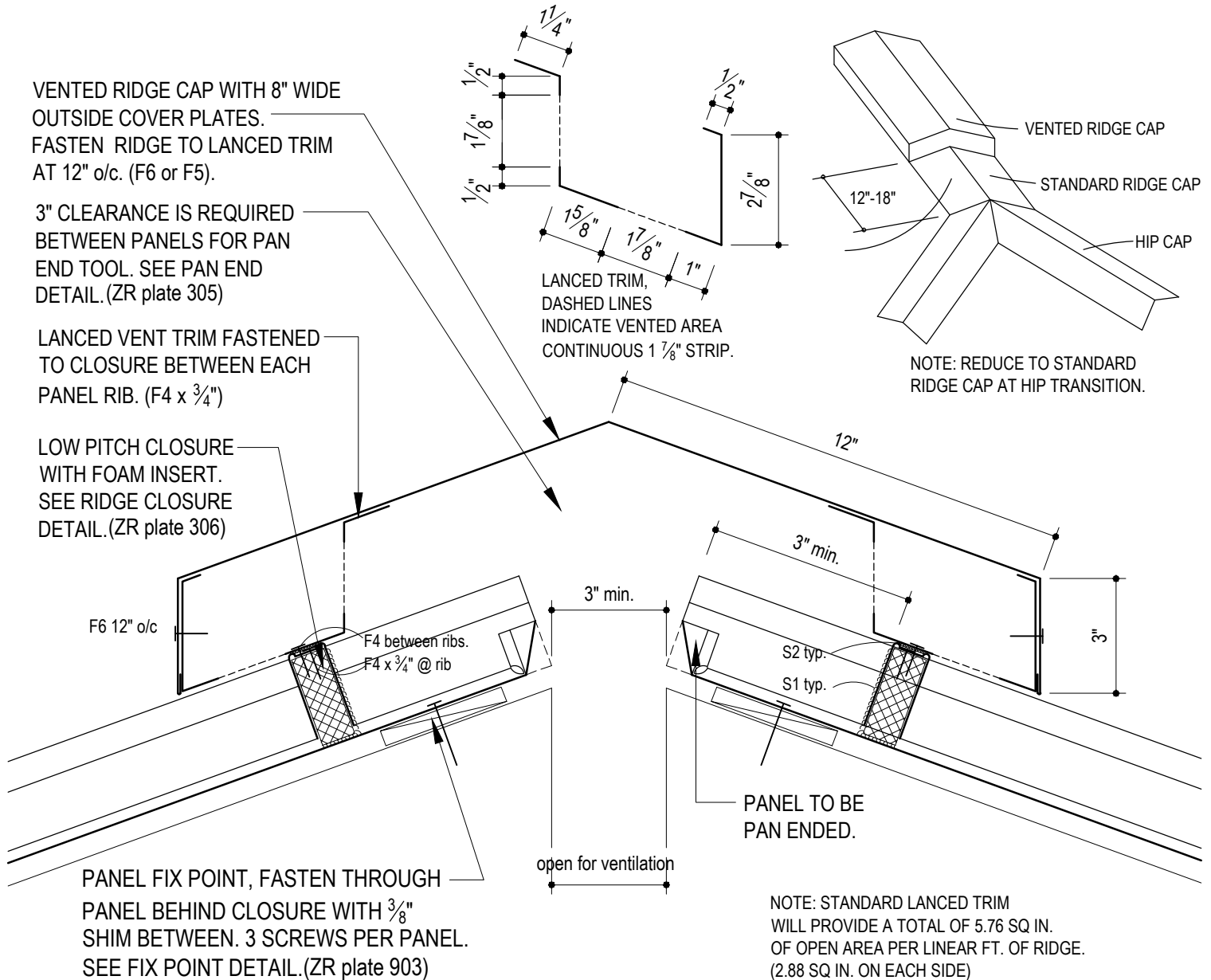
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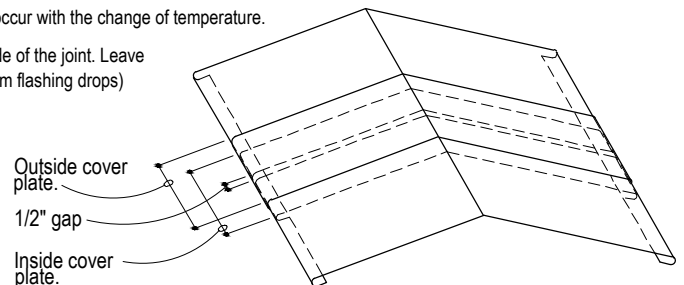
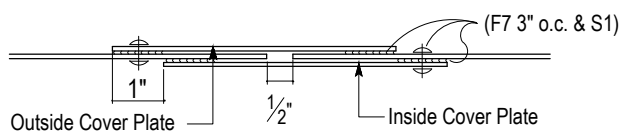
VENTED RIDGE



Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

Expansion joints are required every 30' for aluminum and every 50' for steel.



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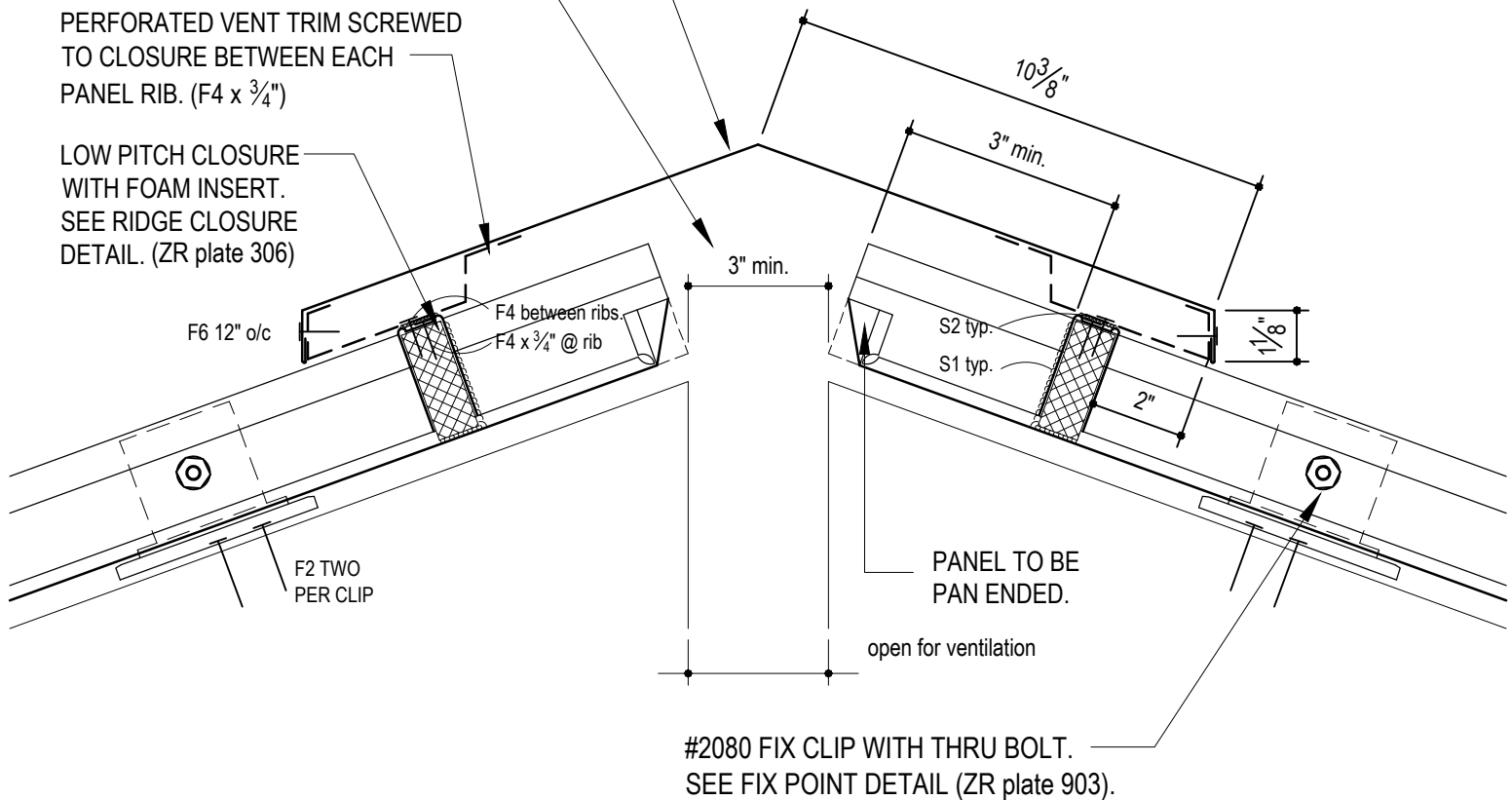
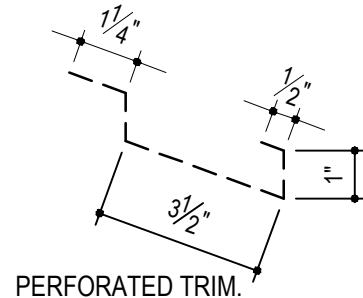
LOW PROFILE VENTED RIDGE

VENTED RIDGE CAP WITH 8" WIDE
OUTSIDE COVER PLATES.
FASTEN RIDGE TO LANCED TRIM
AT 12" o/c. (F6 or F5).

3" CLEARANCE IS REQUIRED
BETWEEN PANELS FOR PAN
END TOOL. SEE PAN END
DETAIL. (ZR plate 305)

PERFORATED VENT TRIM SCREWED
TO CLOSURE BETWEEN EACH
PANEL RIB. (F4 x 3/4")

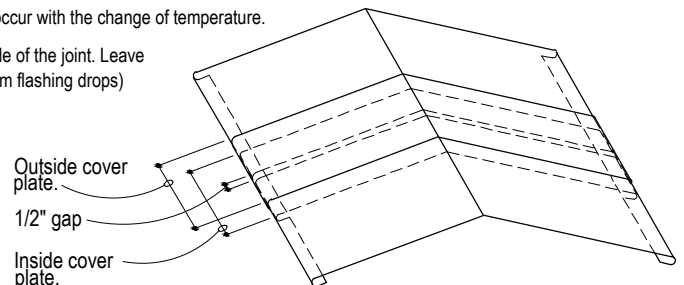
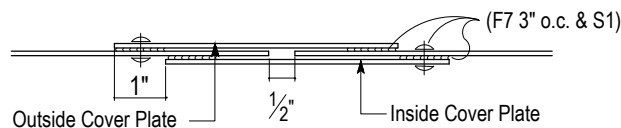
LOW PITCH CLOSURE
WITH FOAM INSERT.
SEE RIDGE CLOSURE
DETAIL. (ZR plate 306)



Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

Expansion joints are required every 30' for aluminum and every 50' for steel.



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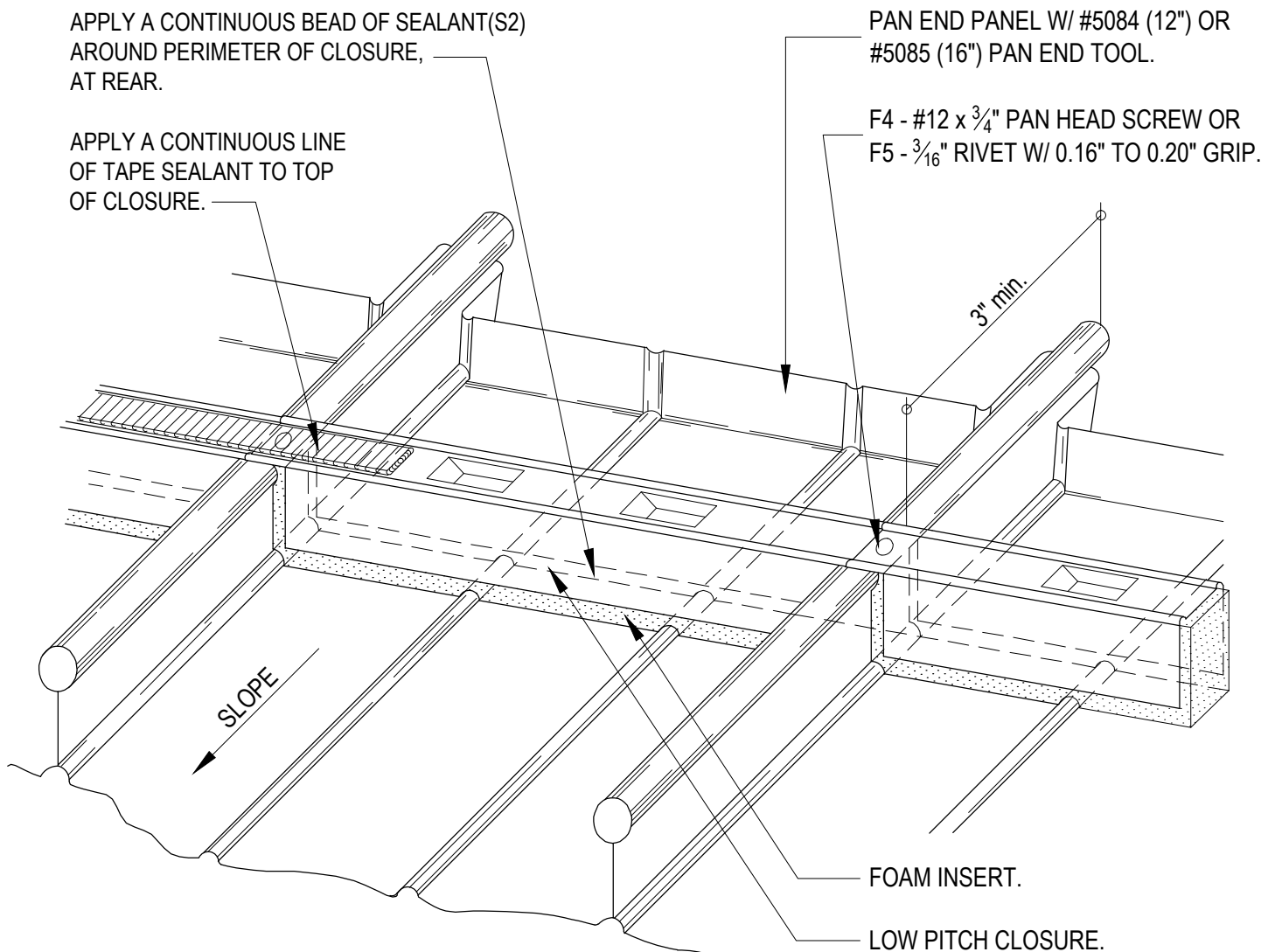
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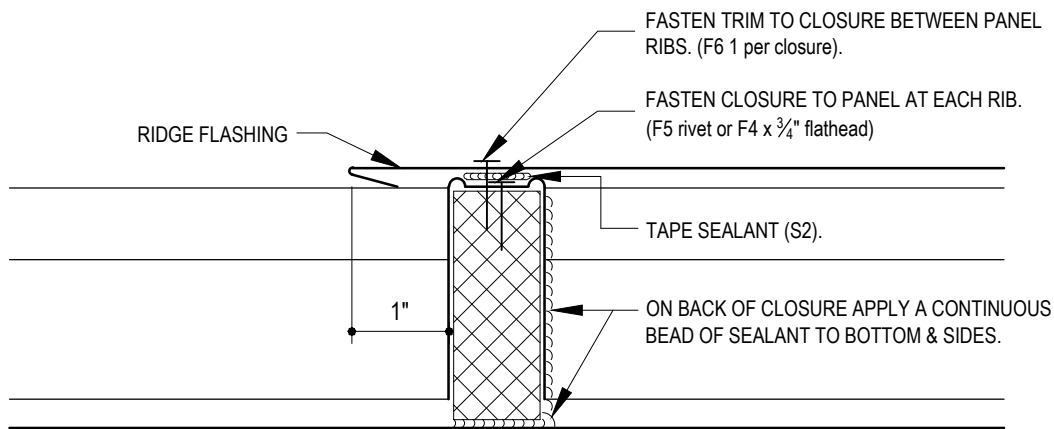


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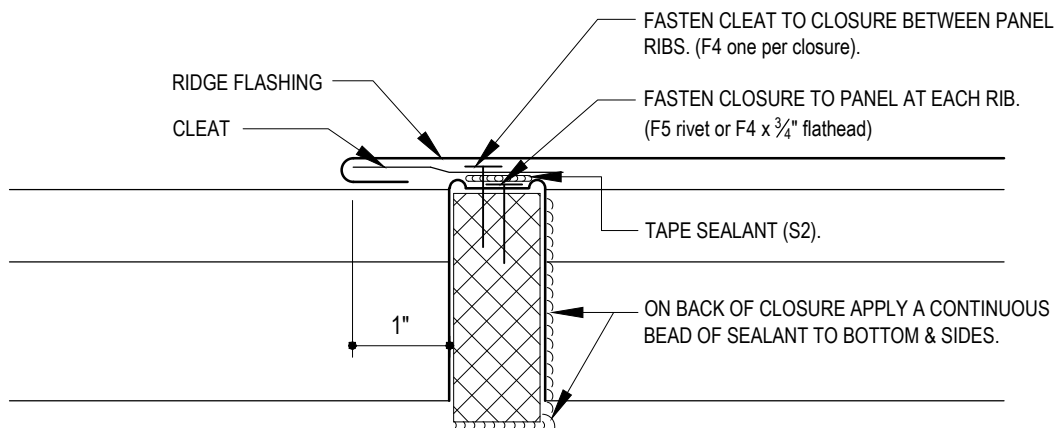
WHEN FASTENING FLASHING TO CLOSURE, FASTEN
FLASHING ONLY AT THE CENTER OF EACH CLOSURE.



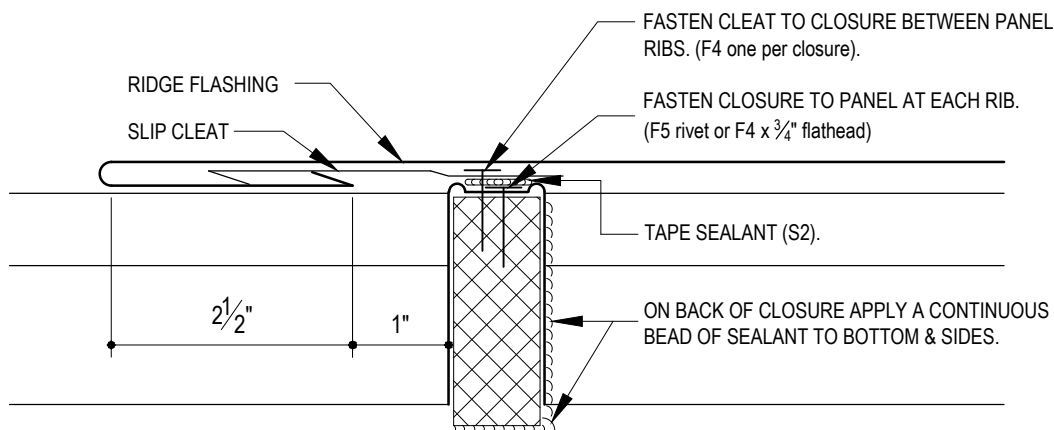
RIDGE CLOSURES



RIDGE CLOSURE (expose fastener)

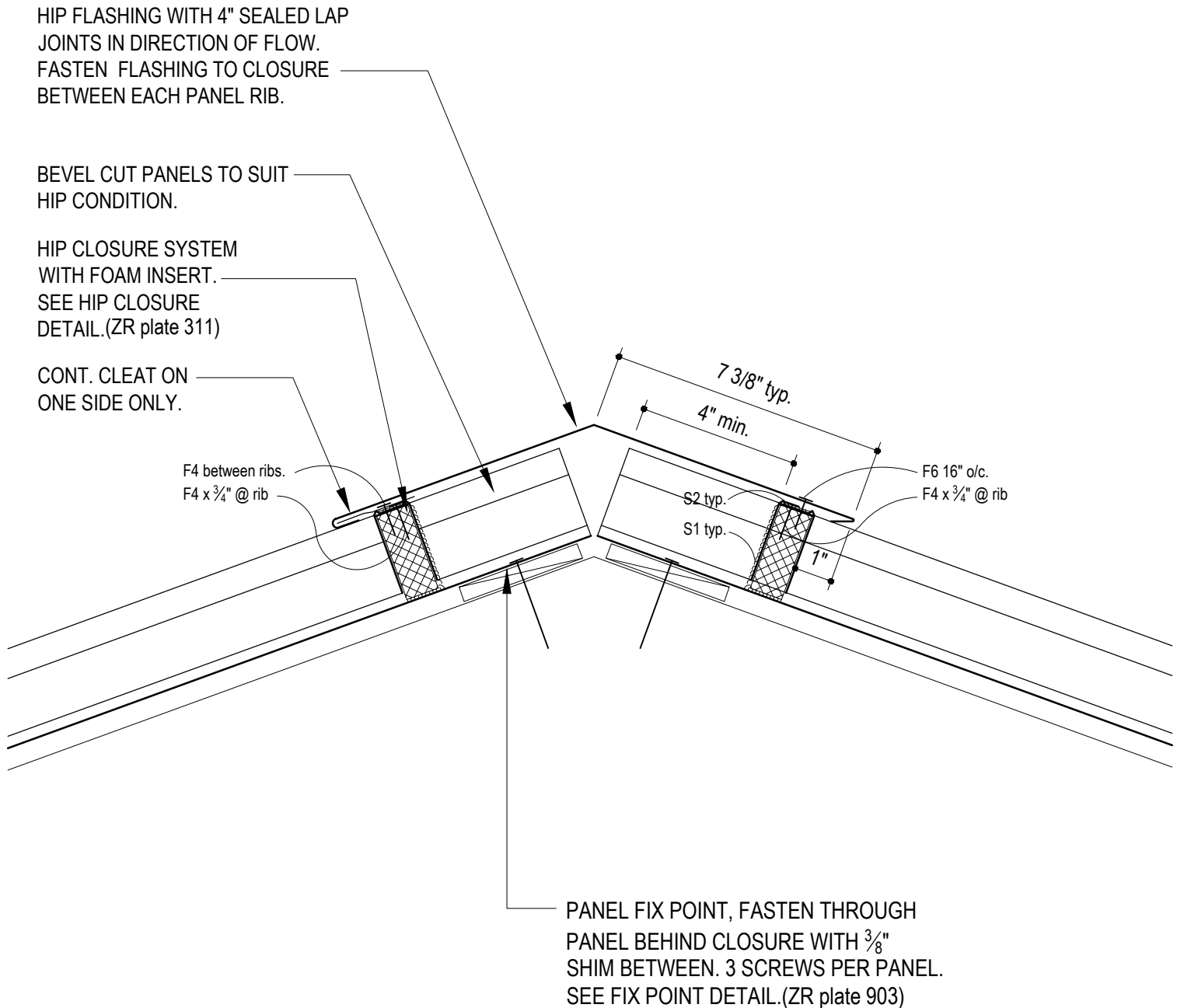


RIDGE CLOSURE (cleated)



RIDGE CLOSURE (slip cleat)

HIP FIXED BEHIND CLOSURE



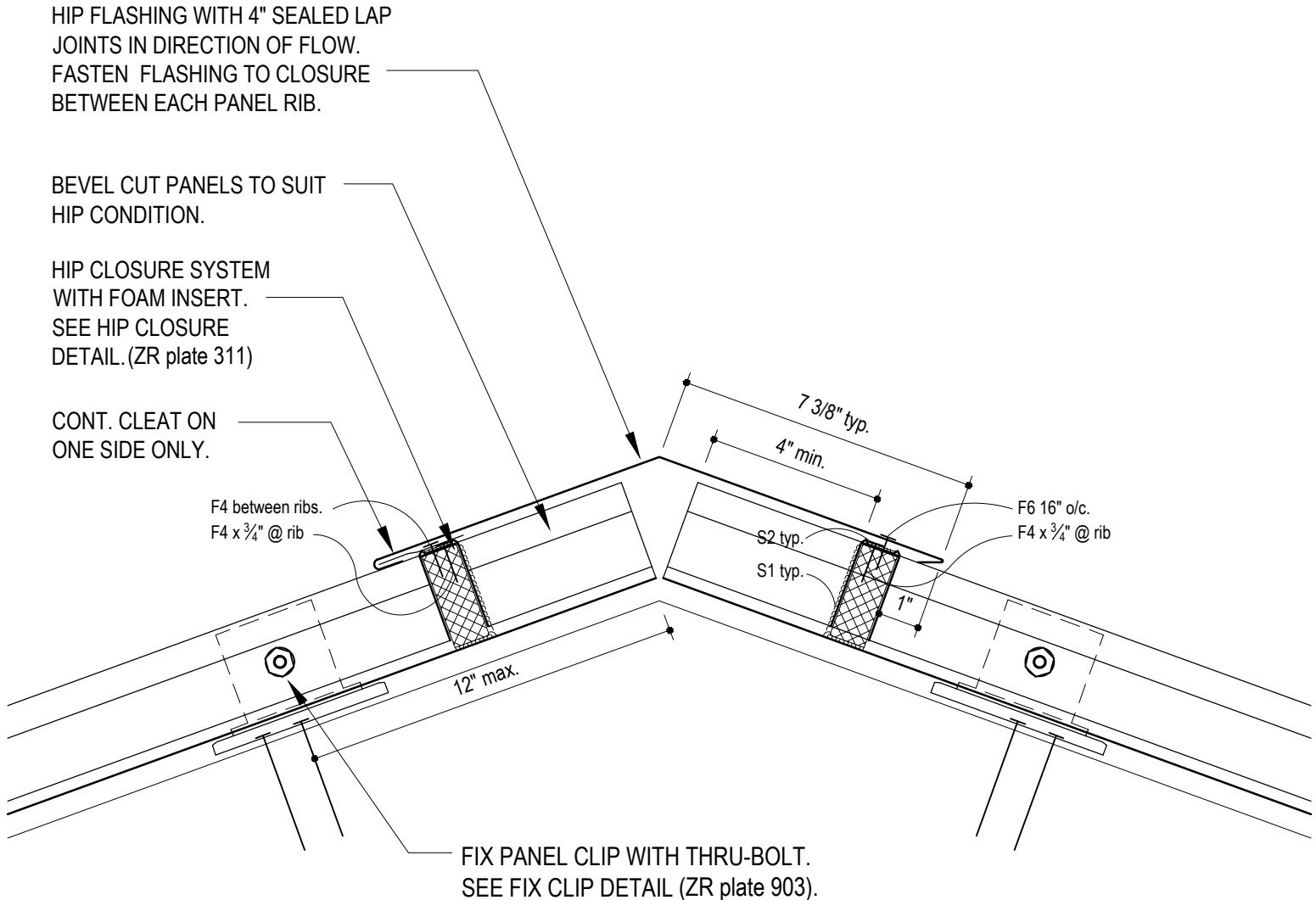
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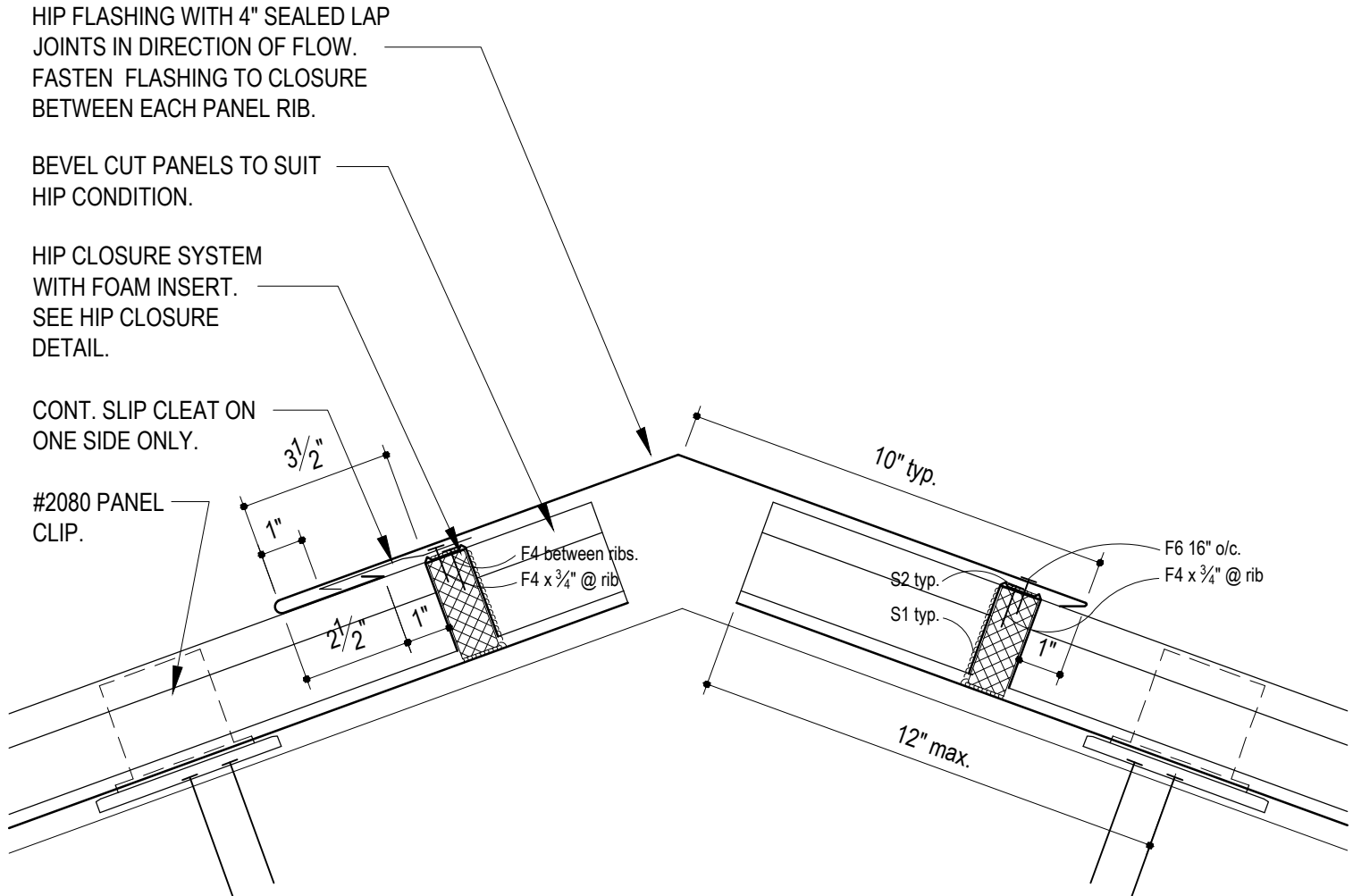
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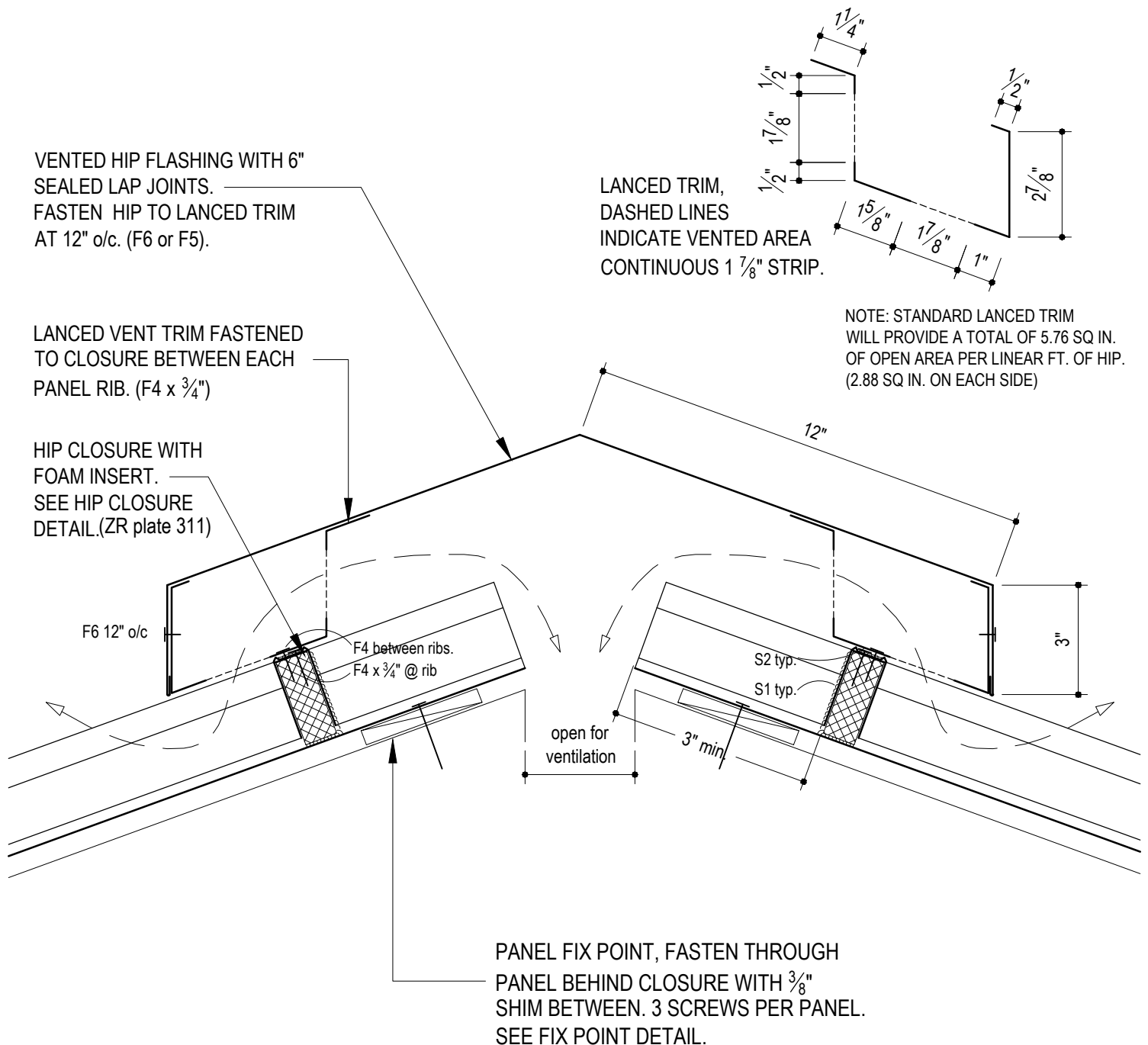
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NOTE: VERIFY SLOPE AT EACH AREA.
TWO ROWS OF CLOSURES ARE REQUIRED
WHEN ROOF SLOPE IS LESS THAN 1 ON 12.



VENTED HIP



NOTE: VERIFY SLOPE AT EACH AREA.
TWO ROWS OF CLOSURES ARE REQUIRED
WHEN ROOF SLOPE IS LESS THAN 1 ON 12.

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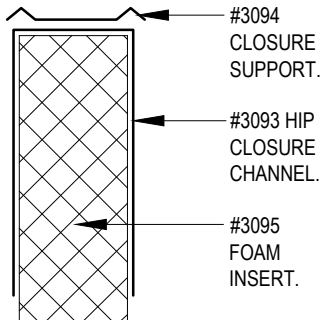


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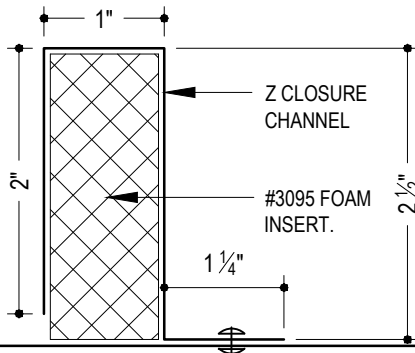
HIP CLOSURES

HIP CLOSURE COMPONENTS



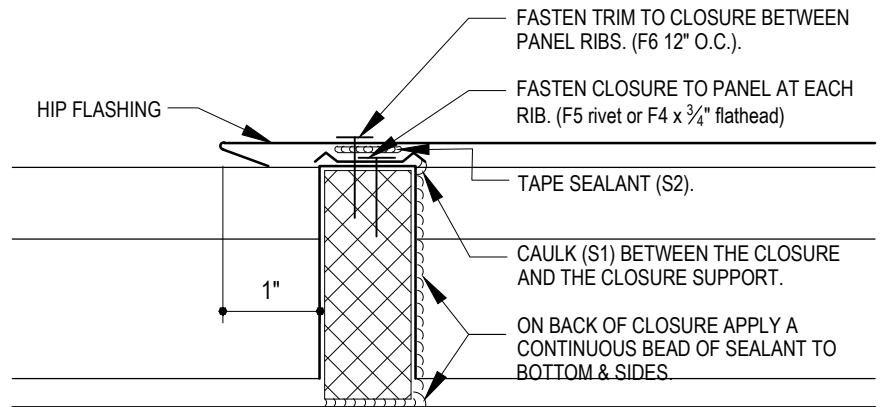
UTILIZE HIP CLOSURE CHANNEL WHEN SKEWED PANEL EDGE IS LESS THAN 36°.

HIP Z-CLOSURE COMPONENTS

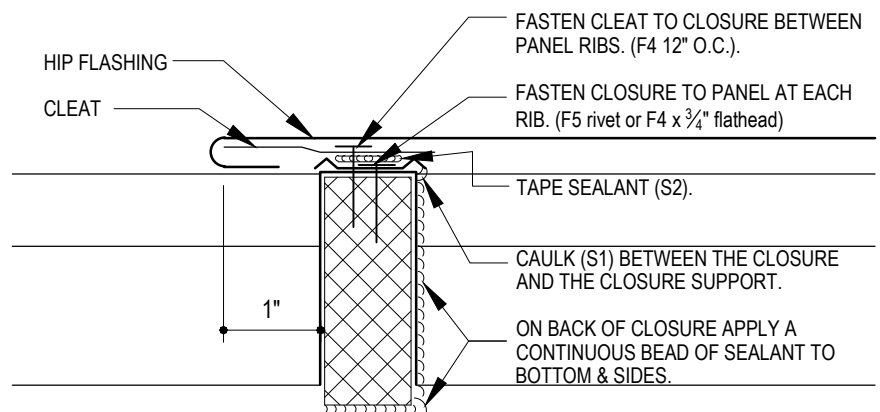


UTILIZE Z CLOSURE CHANNEL WHEN SKEWED PANEL EDGE IS 36° OR LARGER. NOTCH NAILING LEG AROUND STIFFENING BEADS TO FIT TIGHT AGAINST FLAT OF PANEL. FASTEN TO PANEL BETWEEN EACH STIFFENING BEAD AS FOLLOWS:

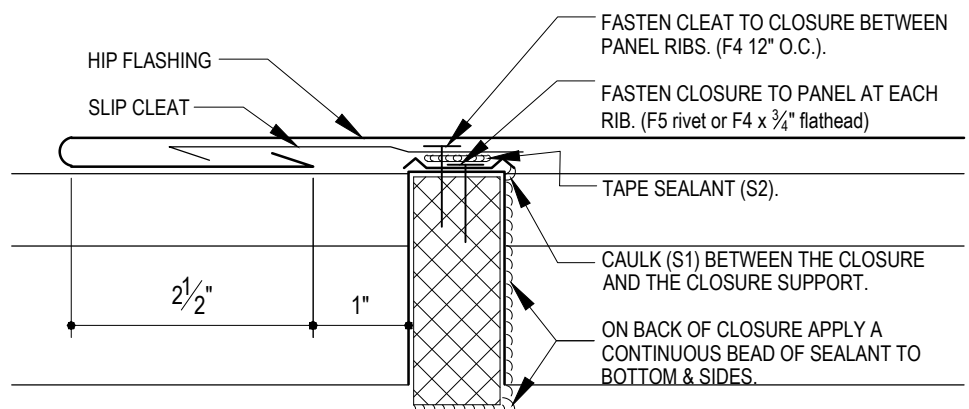
- AT FIX POINT LOCATIONS (IF APPLICABLE): FASTEN THRU PANEL & SHIM AT 6" O.C. MIN.
- AT NON-FIX POINTS (IF APPLICABLE): RIVET TO PANEL AT 6" O.C. MIN.



HIP CLOSURE (exposed fastener)



HIP CLOSURE (cleated)



HIP CLOSURE (slip cleat)

NOTE: REFER TO HIP CLOSURE INSTALLATION FOR MORE INFORMATION

HIP CLOSURE INSTALLATION

FASTEN FLASHING TO SUPPORT CHANNEL @ 12" o/c.

ON REAR OF CLOSURE, APPLY A CONTINUOUS BEAD OF SEALANT (S1) BETWEEN CLOSURE & PANEL. ALSO, BETWEEN CLOSURE AND CLOSURE SUPPORT.

EXTRUDED CLOSURE SUPPORT SUPPLIED IN 10'-0" LENGTHS. INSTALL AND FASTEN TO RIBS.

APPLY 1" TAPE SEALANT (S2) TO TOP OF CLOSURE SUPPORT.

F4 - #12 x 3/4" PAN HEAD SCREW OR
F5 - 3/16" RIVET W/ 0.16" TO 0.20" GRIP.

CLOSURE CHANNEL IS SUPPLIED IN 10'-0" LENGTHS, FIELD BEVEL CUT TO FIT BETWEEN RIBS.

BEVEL CUT FOAM INSERTS 1" LONGER THAN CHANNEL.

NOTE: REFER TO HIP CLOSURE DETAILS FOR MORE INFORMATION

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HEADWALL FIXED BEHIND CLOSURE

SAW CUT REGLET AS REQUIRED.
INSTALL BACKER ROD & SEALANT
IN REGLET. BY OTHERS.

REGLET FLASHING W/4" LAP JTS.

HEADWALL FLASHING WITH 6" WIDE
OUTSIDE COVER PLATES.

3" CLEARANCE IS REQUIRED BETWEEN PANELS FOR PAN
END TOOL. SEE PAN END DETAIL. (ZR plate 305)

LOW PITCH CLOSURE WITH FOAM INSERT. SEE
RIDGE CLOSURE DETAIL. (ZR plate 306)

CONTINUOUS CLEAT.

F4 between ribs.
F4 x 3/4" @ rib

10"

4"

F4 or F11
@ 24" o/c

3" min.

3"

S2 typ.

S1 typ.

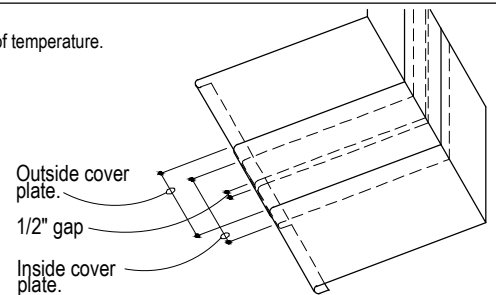
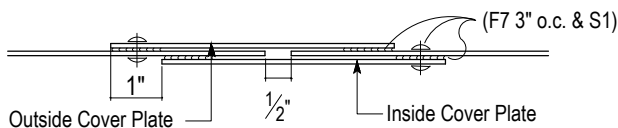
PANEL FIX POINT, FASTEN THROUGH
PANEL BEHIND CLOSURE WITH 3/8"
SHIM BETWEEN. 3 SCREWS PER PANEL.
SEE FIX POINT DETAIL (ZR plate 903).

NOTE: VERIFY SLOPE AT EACH AREA.
TWO ROWS OF CLOSURES ARE REQUIRED
WHEN ROOF SLOPE IS LESS THAN 1 ON 12.

Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

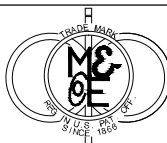
Expansion joints are required every 30' for aluminum and every 50' for steel.



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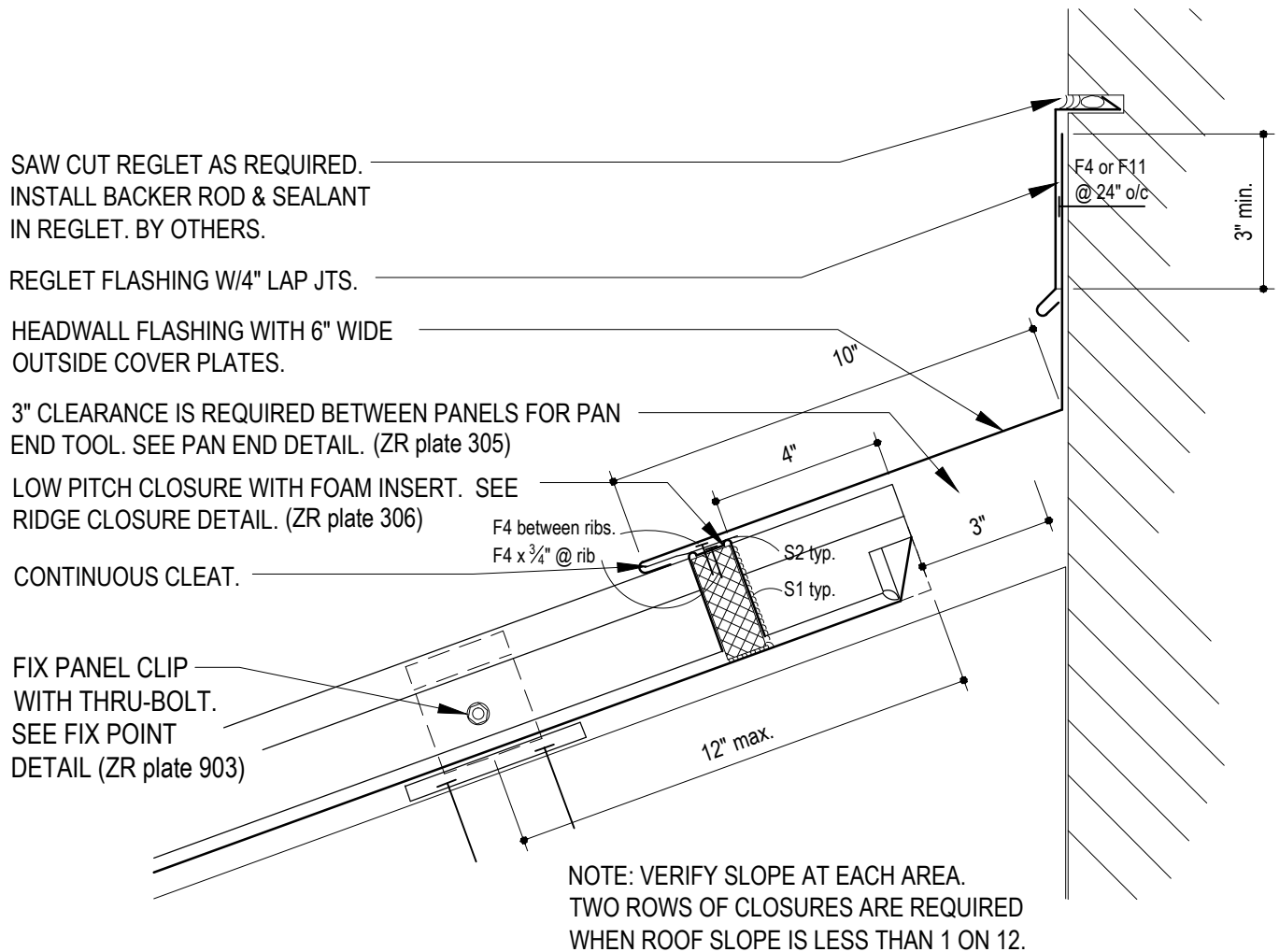
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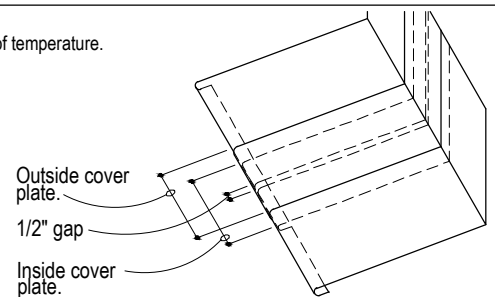
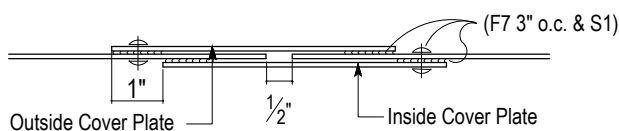
HEADWALL FIXED AT CLIP



Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

Expansion joints are required every 30' for aluminum and every 50' for steel.



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Detail shown is standard and must be designed specific to a project.

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SAW CUT REGLET AS REQUIRED.
INSTALL BACKER ROD & SEALANT
IN REGLET. BY OTHERS.

REGLET FLASHING W/4" LAP JTS.

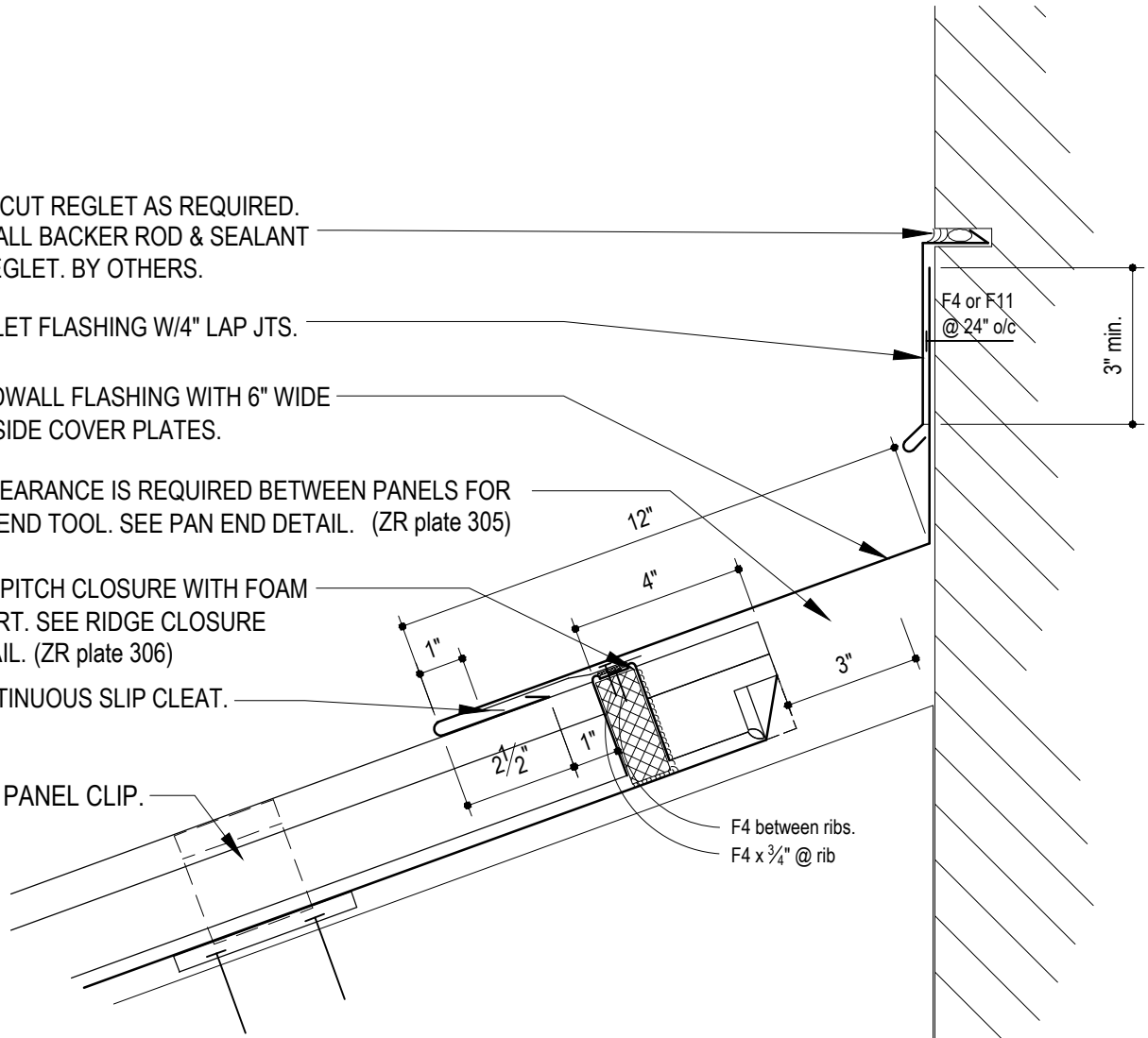
HEADWALL FLASHING WITH 6" WIDE
OUTSIDE COVER PLATES.

3" CLEARANCE IS REQUIRED BETWEEN PANELS FOR
PAN END TOOL. SEE PAN END DETAIL. (ZR plate 305)

LOW PITCH CLOSURE WITH FOAM
INSERT. SEE RIDGE CLOSURE
DETAIL. (ZR plate 306)

CONTINUOUS SLIP CLEAT.

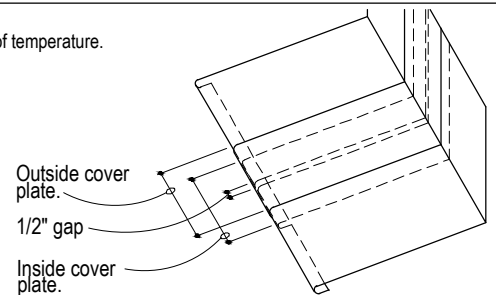
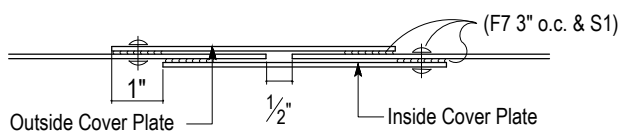
2080 PANEL CLIP.



Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

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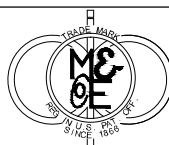
Expansion joints are required every 30' for aluminum and every 50' for steel.



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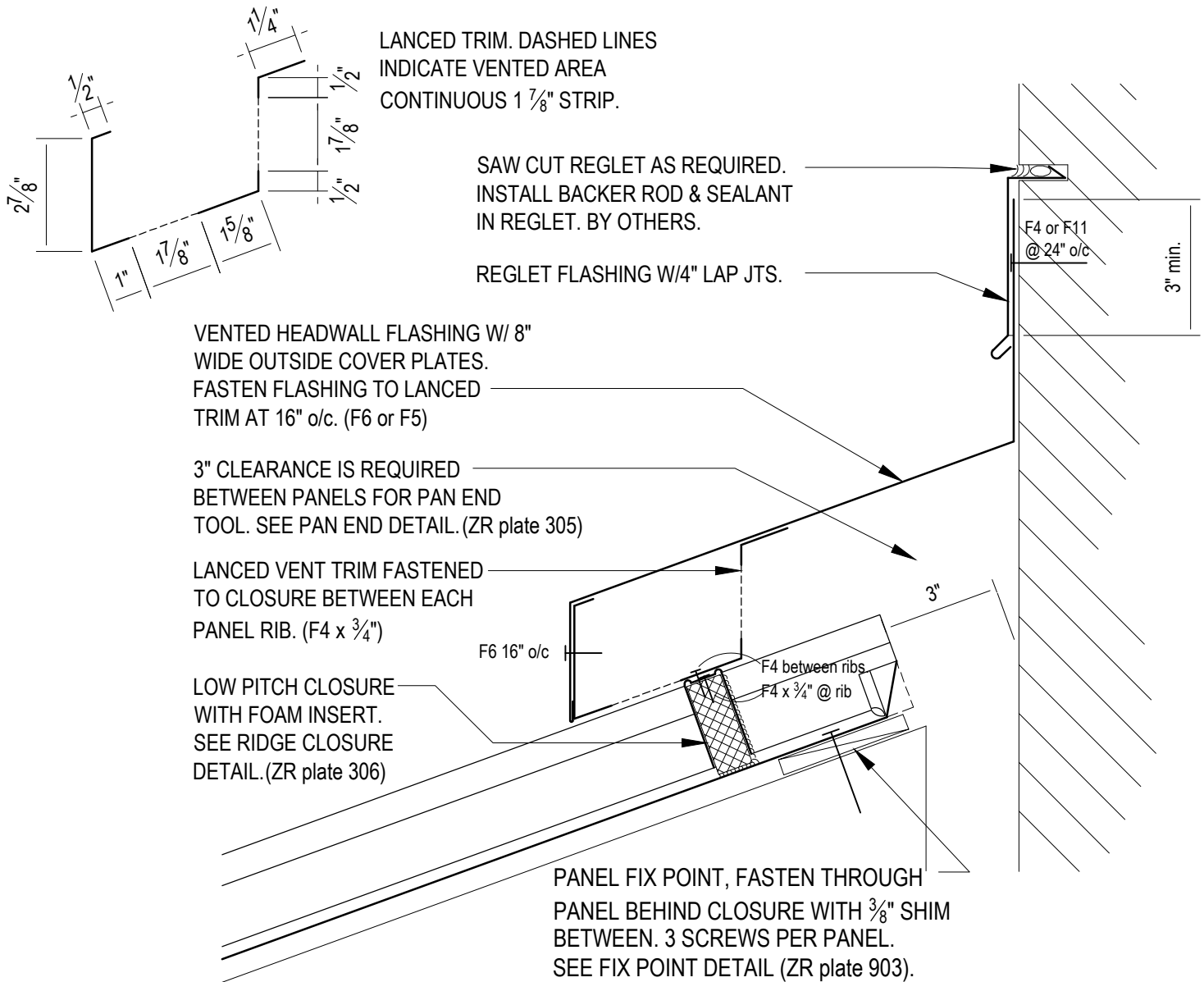
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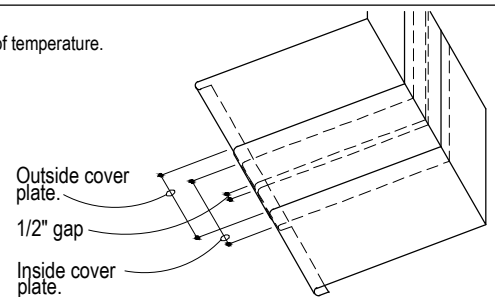
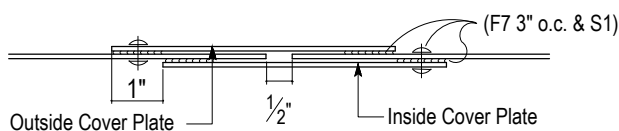
VENTED HEADWALL



Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

Expansion joints are required every 30' for aluminum and every 50' for steel.



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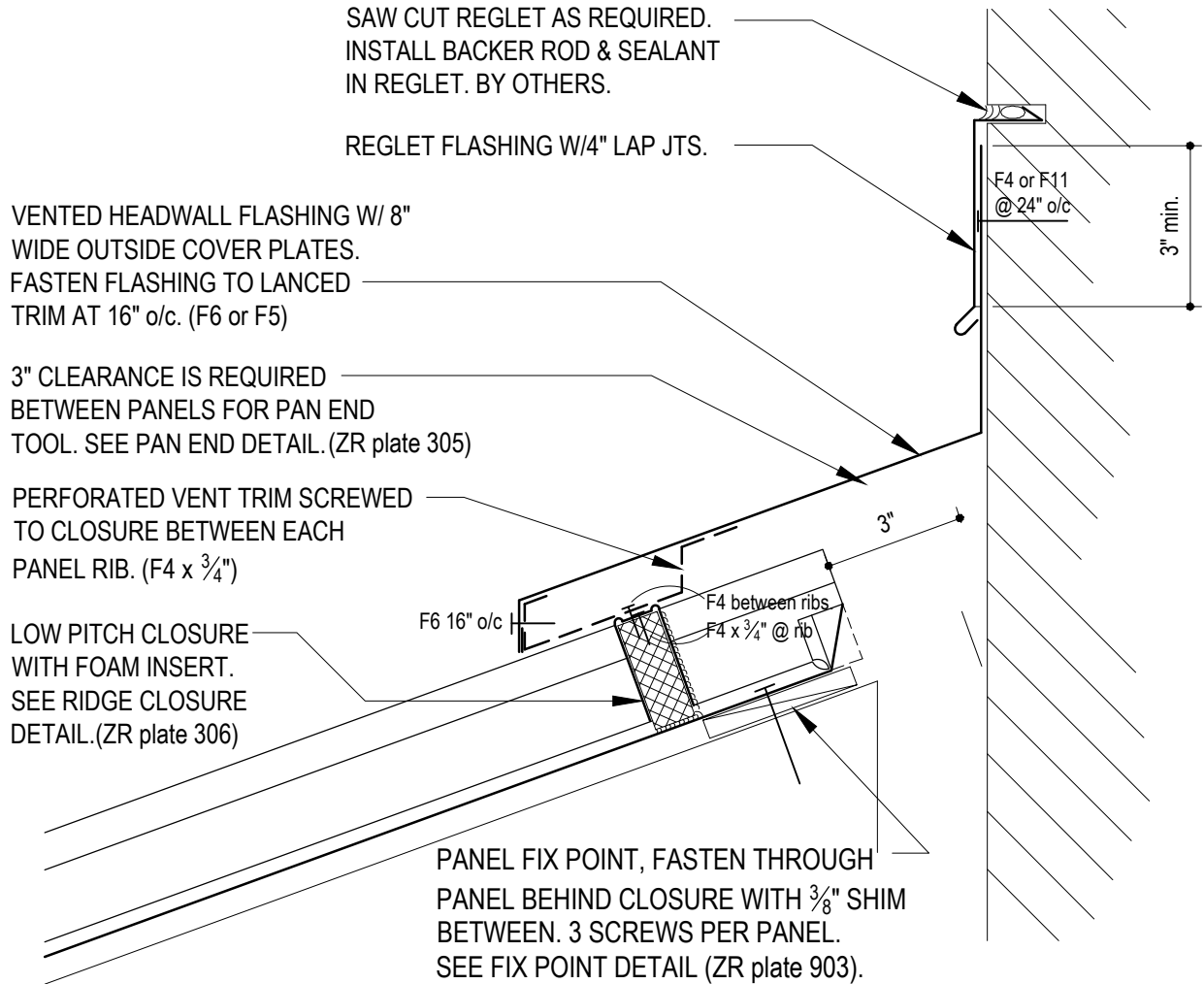
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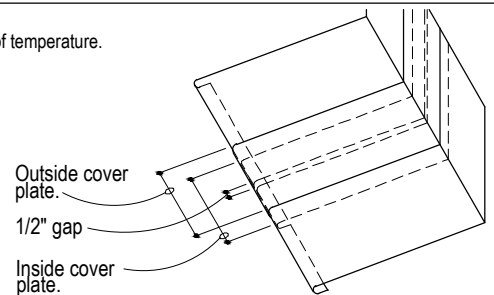
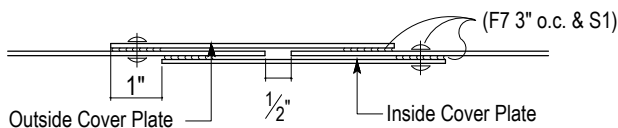
LOW PROFILE VENTED HEADWALL



Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

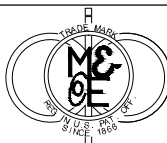
Expansion joints are required every 30' for aluminum and every 50' for steel.



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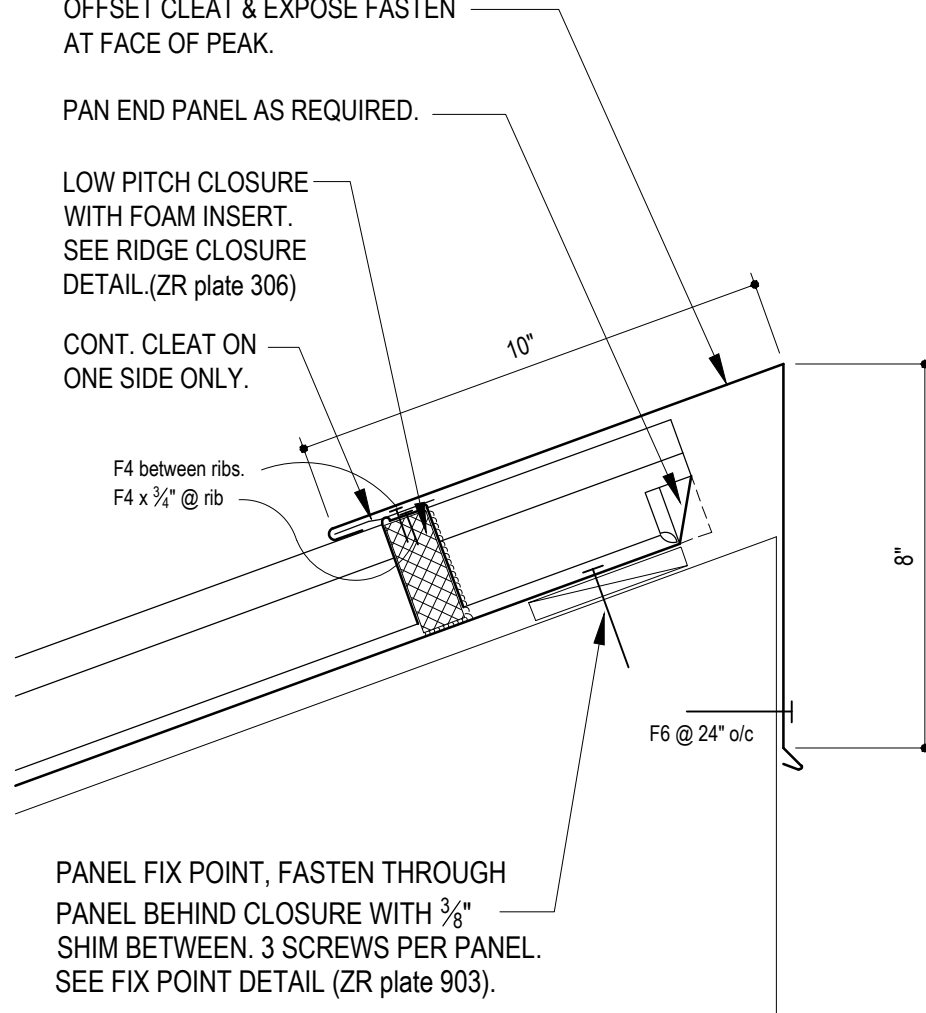
PEAK FLASHING WITH 6" WIDE OUTSIDE COVER PLATES. HOOK FLASHING ONTO OFFSET CLEAT & EXPOSE FASTEN AT FACE OF PEAK.

PAN END PANEL AS REQUIRED.

LOW PITCH CLOSURE WITH FOAM INSERT. SEE RIDGE CLOSURE DETAIL. (ZR plate 306)

CONT. CLEAT ON ONE SIDE ONLY.

F4 between ribs.
F4 x 3/4" @ rib



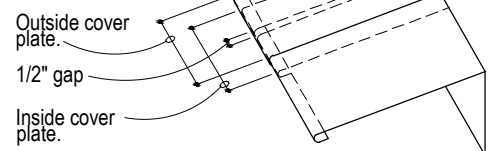
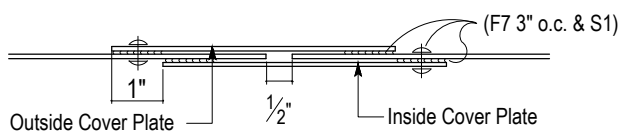
PANEL FIX POINT, FASTEN THROUGH PANEL BEHIND CLOSURE WITH 3/8" SHIM BETWEEN. 3 SCREWS PER PANEL. SEE FIX POINT DETAIL (ZR plate 903).

F6 @ 24" o/c

Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

Expansion joints are required every 30' for aluminum and every 50' for steel.



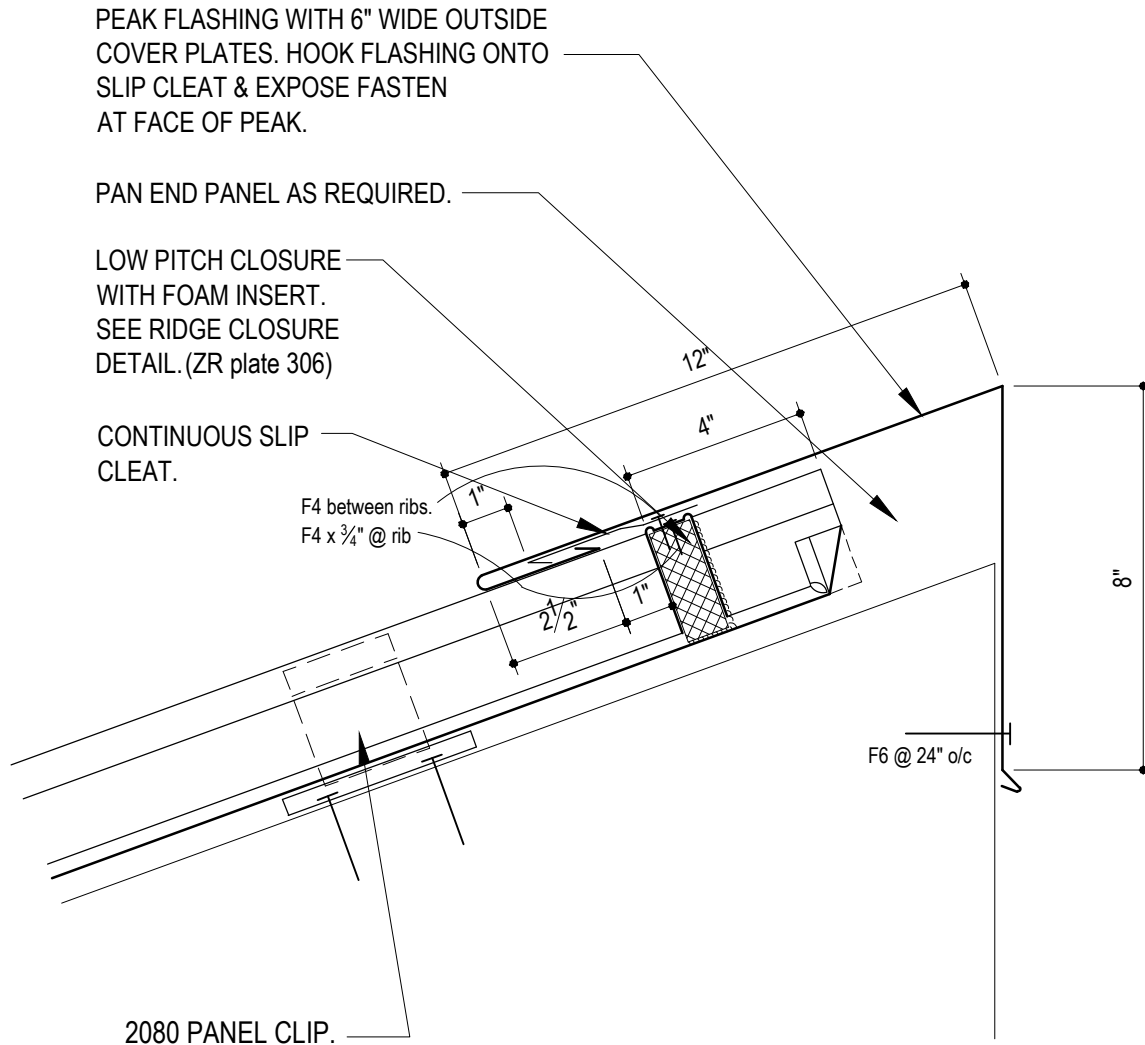
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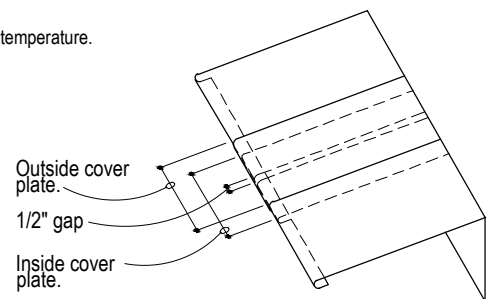
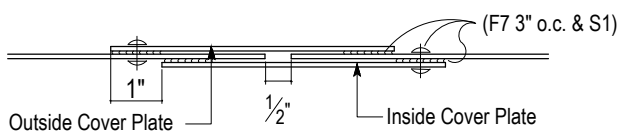
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VENTED PEAK FLASHING WITH 6" WIDE OUTSIDE COVER PLATES. HOOK FLASHING ONTO OFFSET CLEAT & EXPOSE FASTEN AT FACE OF PEAK.

PAN END PANEL AS REQUIRED.

LOW PITCH CLOSURE WITH FOAM INSERT. SEE RIDGE CLOSURE DETAIL (ZR plate 306)

CONT. CLEAT ON ONE SIDE ONLY.

F4 between ribs.
F4 x 3/4" @ rib

10"

8"

F6 @ 24" o/c

OPEN FOR VENTILATION

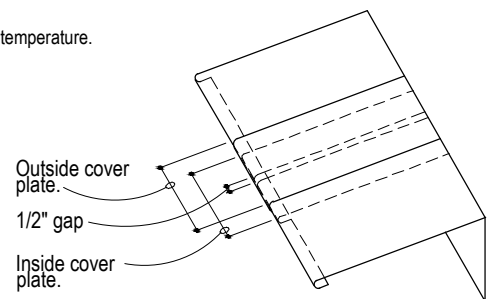
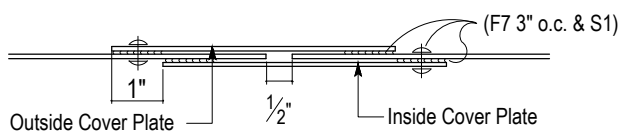
PANEL FIX POINT, FASTEN THROUGH PANEL BEHIND CLOSURE WITH 3/8" SHIM BETWEEN. 3 SCREWS PER PANEL. SEE FIX POINT DETAIL (ZR plate 903).

VENT STRIP & SUPPORT FLASHING

Flashing expansion joints are required to accommodate liner thermal expansion and contraction that will occur with the change of temperature.

Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a half in. gap between flashing. Offset cover plates 1" for rivet clearance. (make the inside coverplates from flashing drops)

Expansion joints are required every 30' for aluminum and every 50' for steel.



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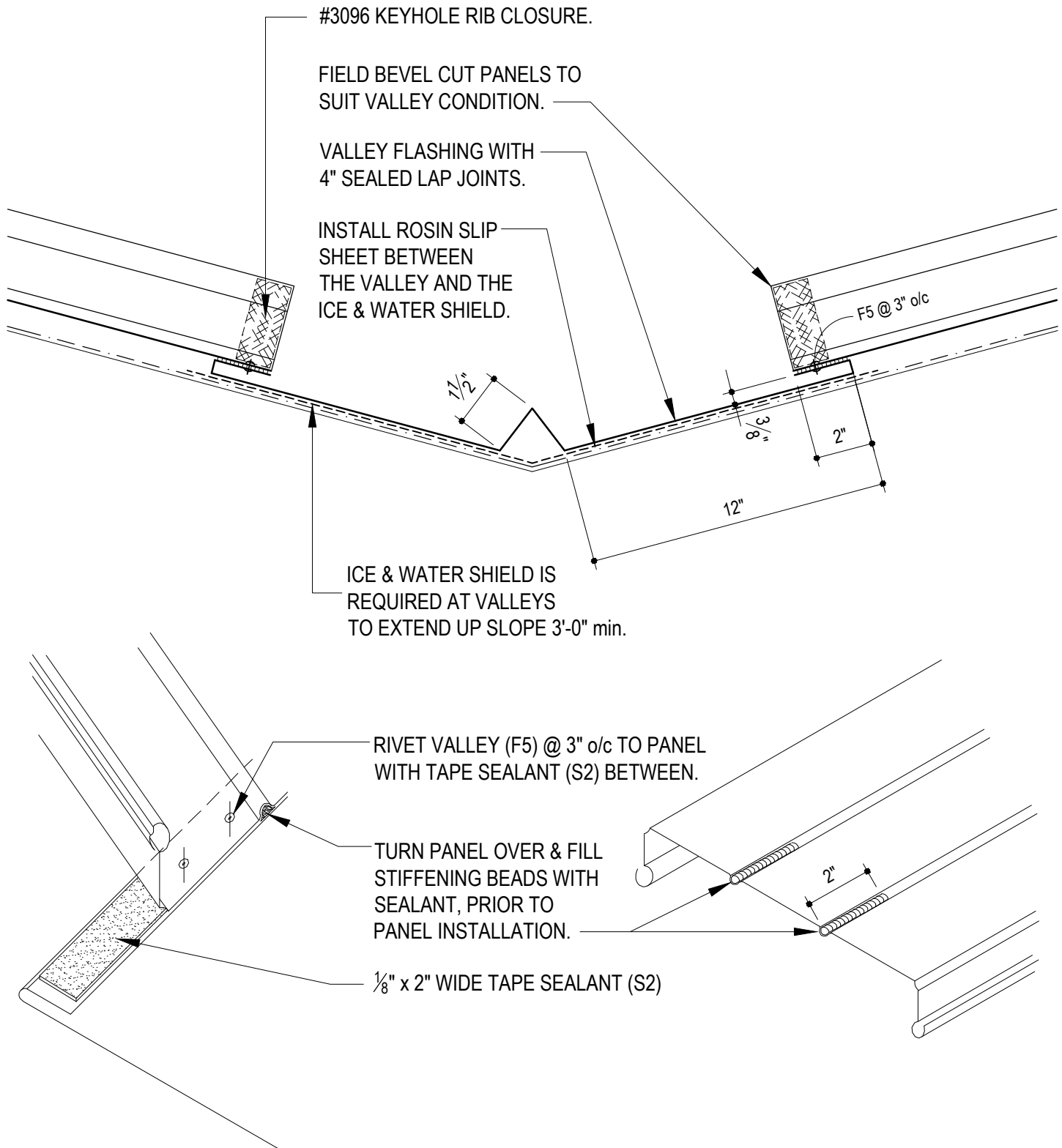
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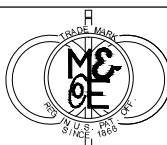
BASIC VALLEY



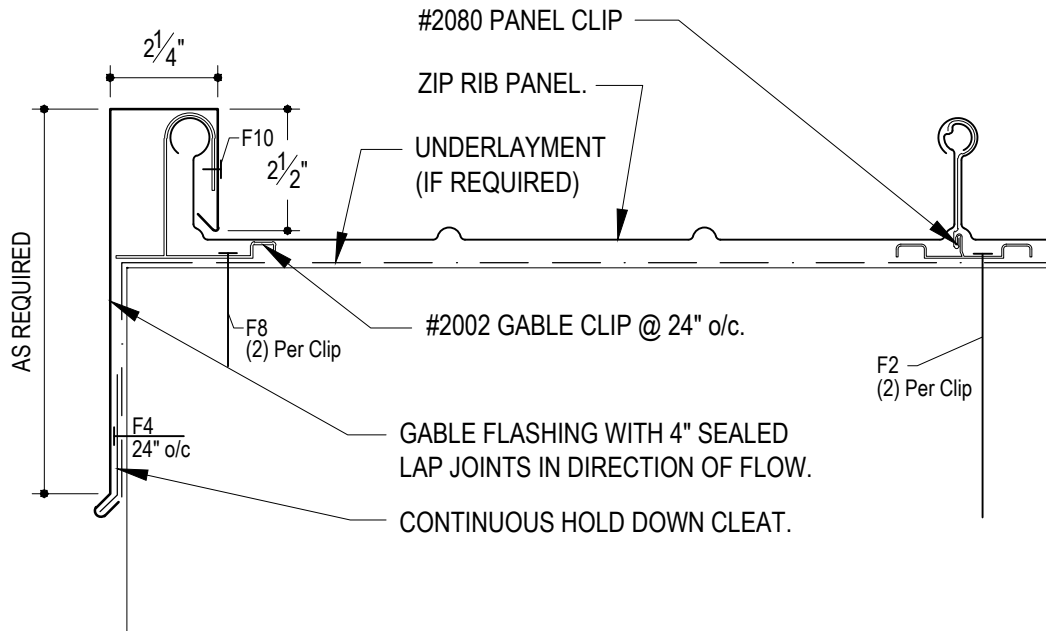
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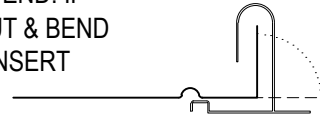
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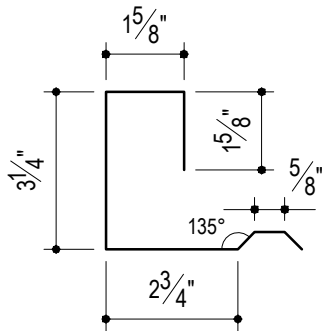


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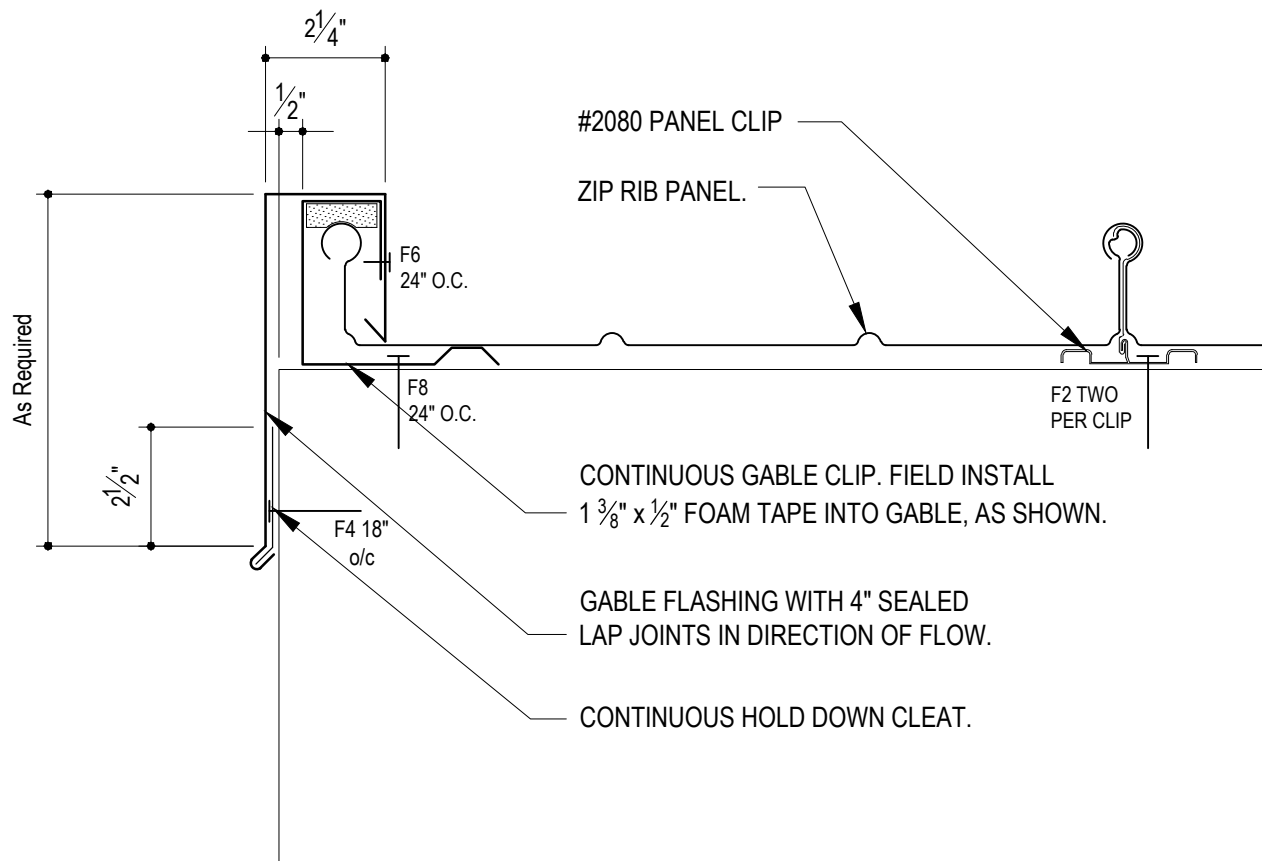
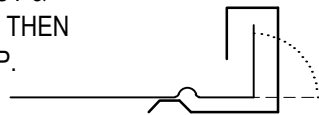
OPTION #1 - START LAYOUT OF PANELS WITH ZIPPED FEMALE LEG INSERTED INTO GABLE CLIP.
OPTION #2 - LAYOUT PANELS TO HAVE EQUAL COVERAGES AT EACH END. IF NECESSARY, FIELD CUT & BEND UP 2" MIN. LEG THEN INSERT INTO GABLE CLIP.





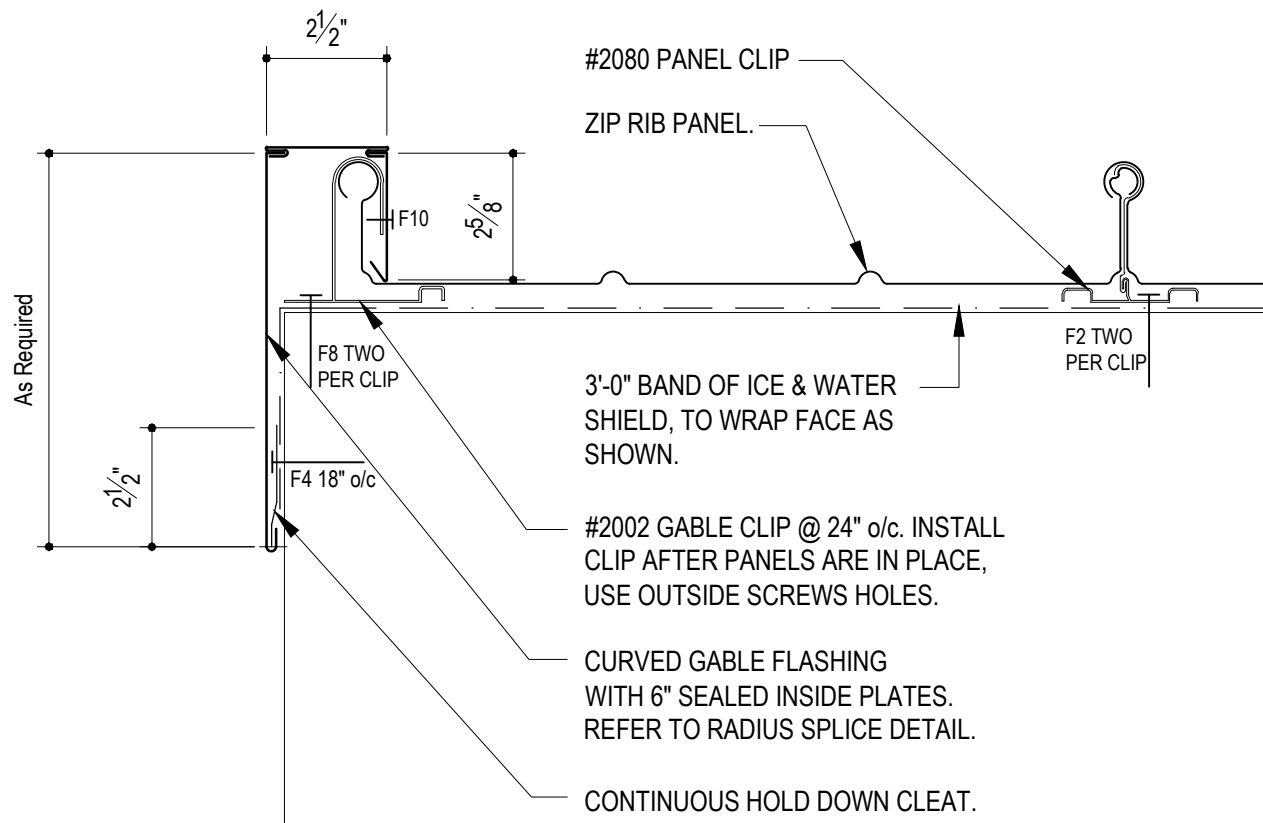
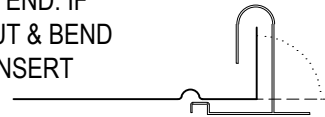
CONTINUOUS GABLE CLIP

OPTION #1 - START LAYOUT OF PANELS WITH ZIPPED FEMALE LEG INSERTED INTO CONTINUOUS GABLE CLIP. OPTION #2 - LAYOUT PANELS TO HAVE EQUAL COVERAGES AT EACH END. IF NECESSARY, FIELD CUT & BEND UP 2 1/2" MIN. LEG THEN INSERT INTO GABLE CLIP.

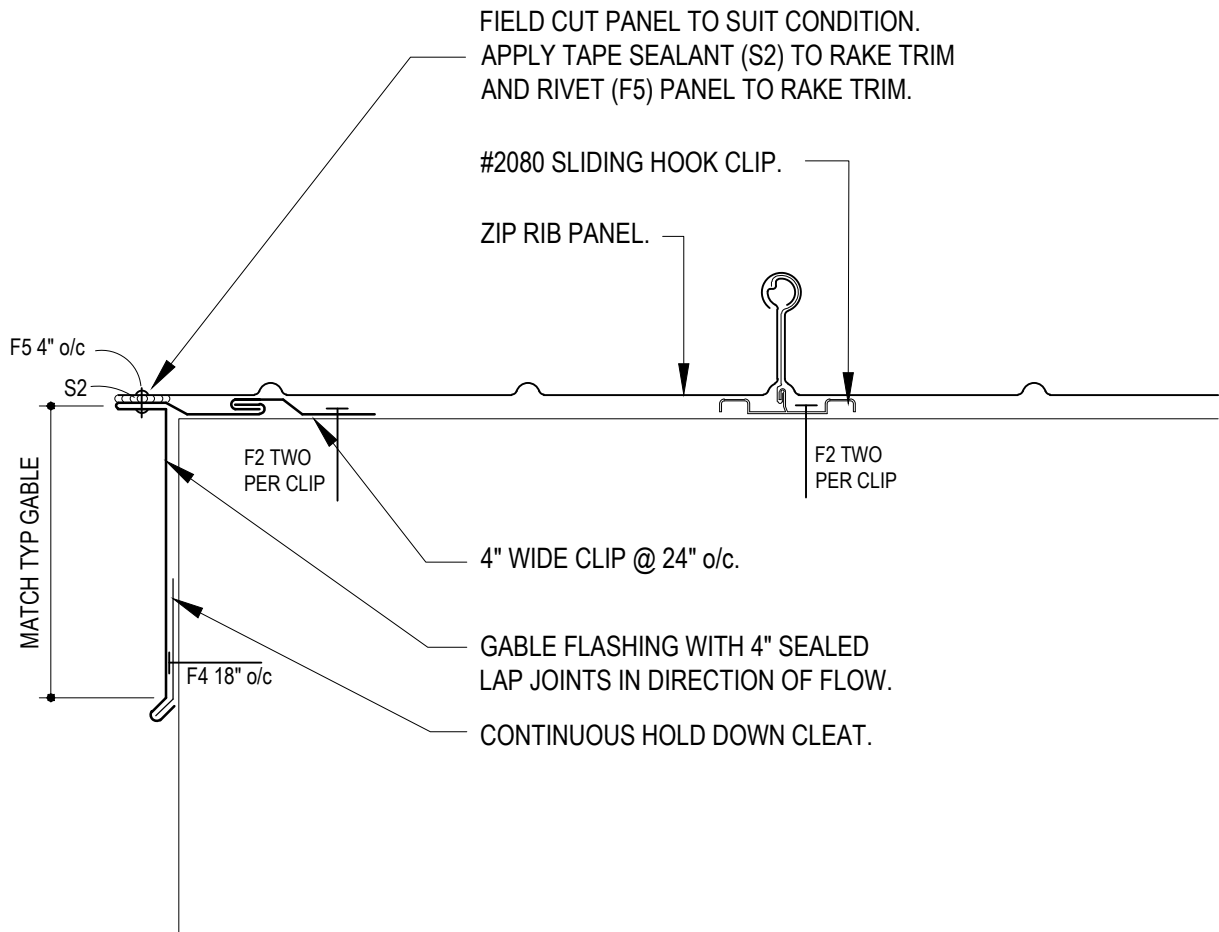


RADIUS GABLE

OPTION #1 - START LAYOUT OF PANELS WITH
ZIPPED FEMALE LEG INSERTED INTO GABLE CLIP.
OPTION #2 - LAYOUT PANELS TO HAVE EQUAL
COVERAGES AT EACH END. IF
NECESSARY, FIELD CUT & BEND
UP 2" MIN. LEG THEN INSERT
INTO GABLE CLIP.

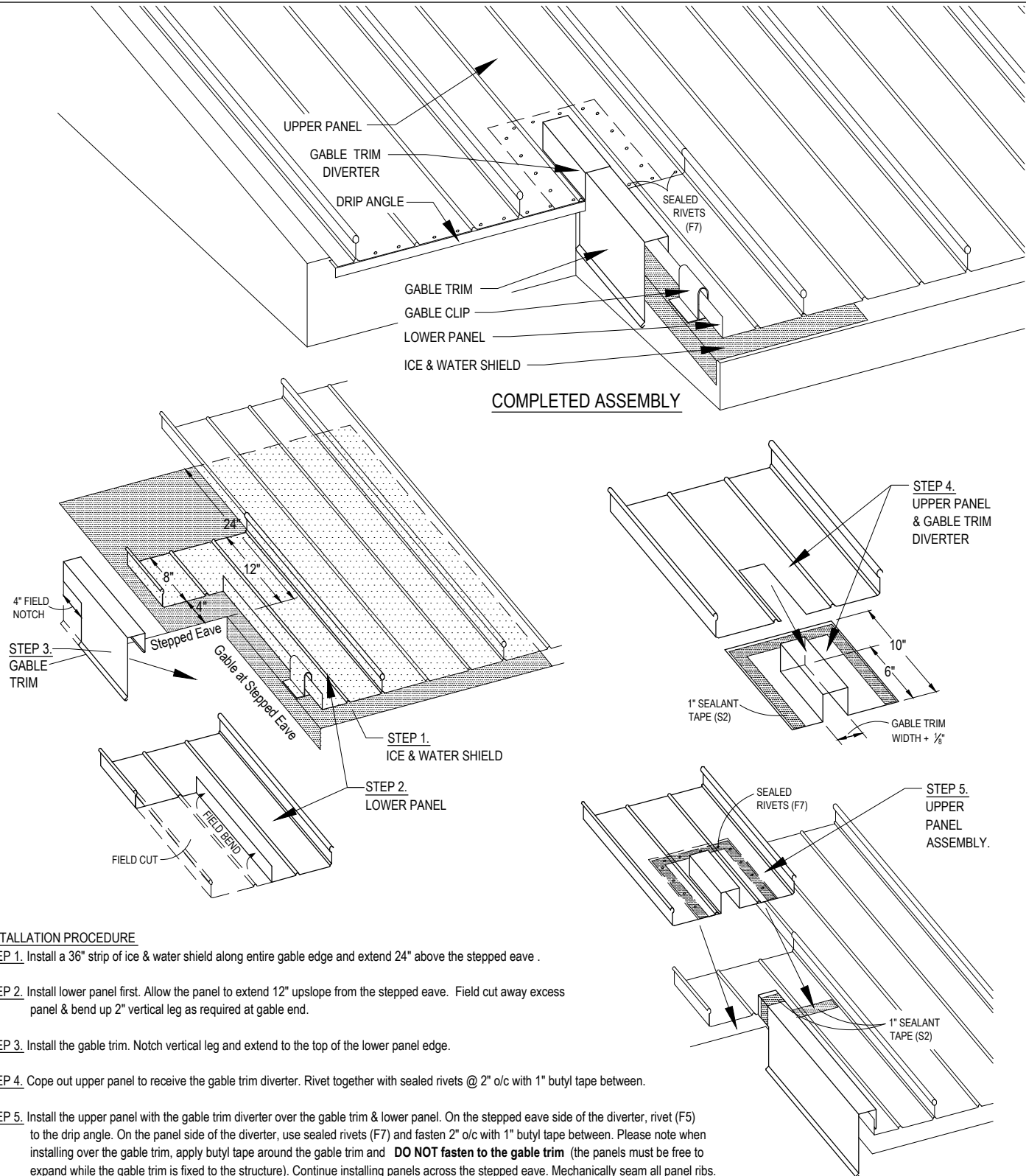


GABLE @ STEPPED EAVE



NOTE: FLASHING IS HOOKED ONTO THE BOTTOM CLEAT
AND FASTENED TO THE ROOF PANELS ONLY. THE
FLASHING IS DESIGNED TO MOVE WITH THERMAL
EXPANSION AND CONTRACTION OF THE PANELS.

GABLE @ STEPPED EAVE DIVERTER



INSTALLATION PROCEDURE

STEP 1. Install a 36" strip of ice & water shield along entire gable edge and extend 24" above the stepped eave .

STEP 2. Install lower panel first. Allow the panel to extend 12" upslope from the stepped eave. Field cut away excess panel & bend up 2" vertical leg as required at gable end.

STEP 3. Install the gable trim. Notch vertical leg and extend to the top of the lower panel edge.

STEP 4. Cope out upper panel to receive the gable trim diverter. Rivet together with sealed rivets @ 2" o/c with 1" butyl tape between.

STEP 5. Install the upper panel with the gable trim diverter over the gable trim & lower panel. On the stepped eave side of the diverter, rivet (F5) to the drip angle. On the panel side of the diverter, use sealed rivets (F7) and fasten 2" o/c with 1" butyl tape between. Please note when installing over the gable trim, apply butyl tape around the gable trim and **DO NOT fasten to the gable trim** (the panels must be free to expand while the gable trim is fixed to the structure). Continue installing panels across the stepped eave. Mechanically seam all panel ribs.

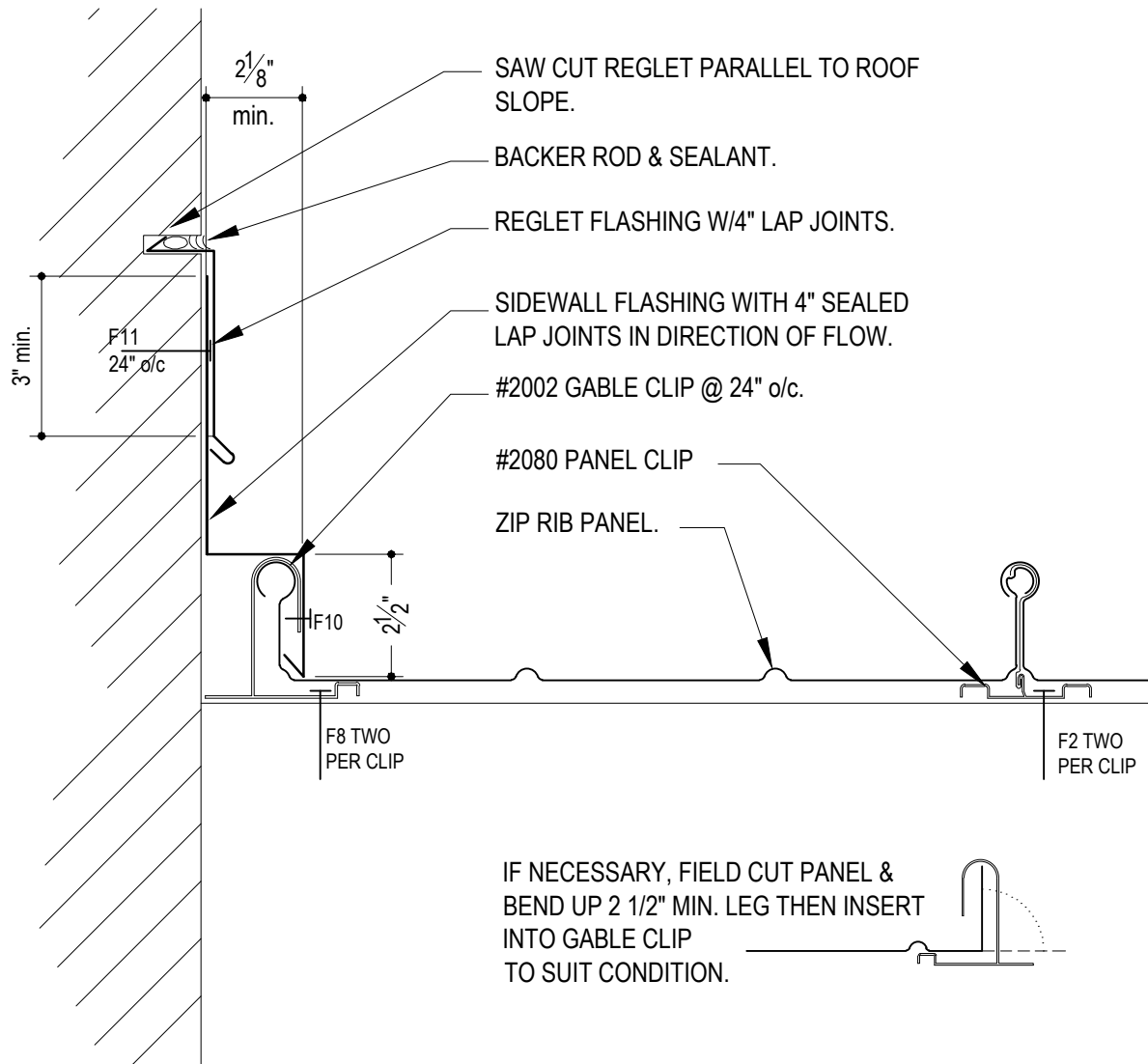
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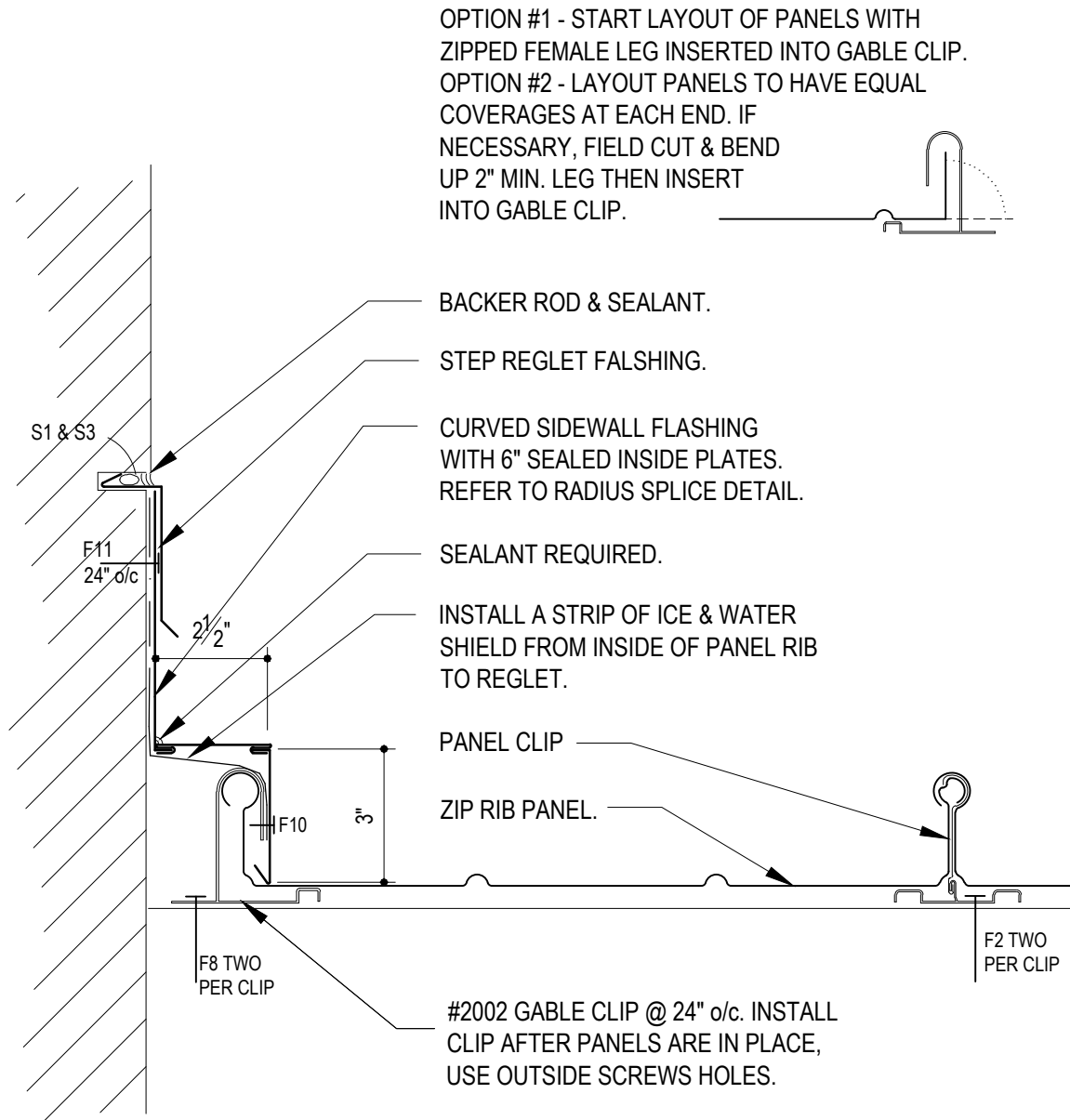
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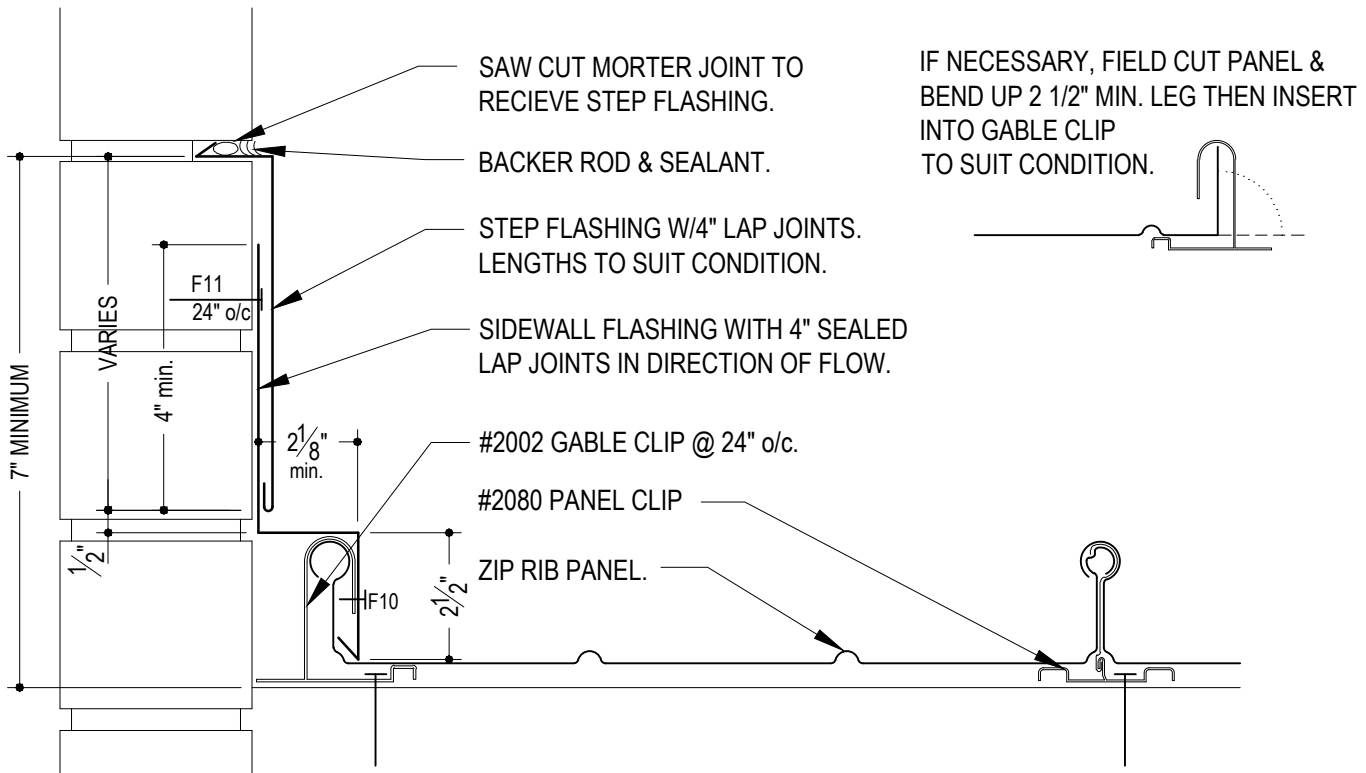


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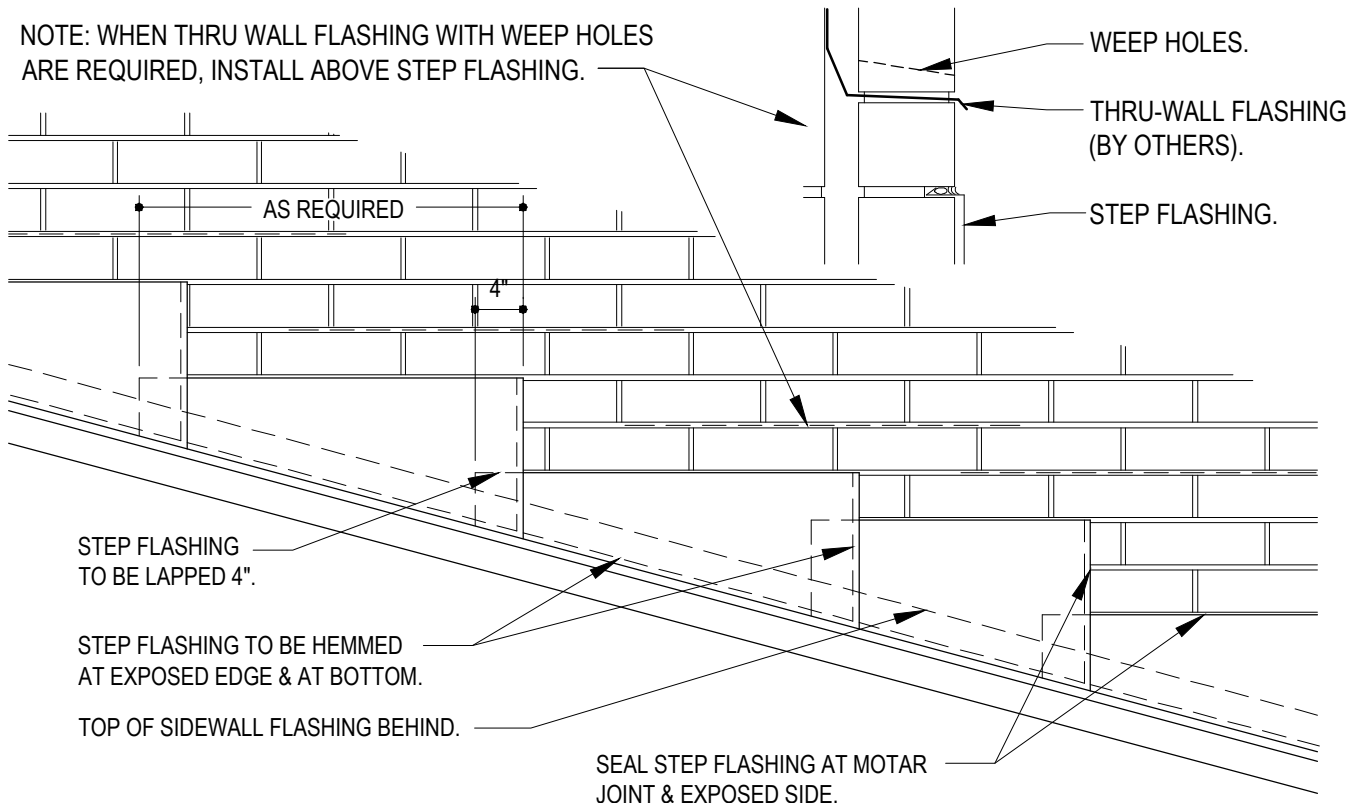


RADIUS SIDEWALL

SIDEWALL WITH STEP FLASHING



NOTE: WHEN THRU WALL FLASHING WITH WEEP HOLES ARE REQUIRED, INSTALL ABOVE STEP FLASHING.



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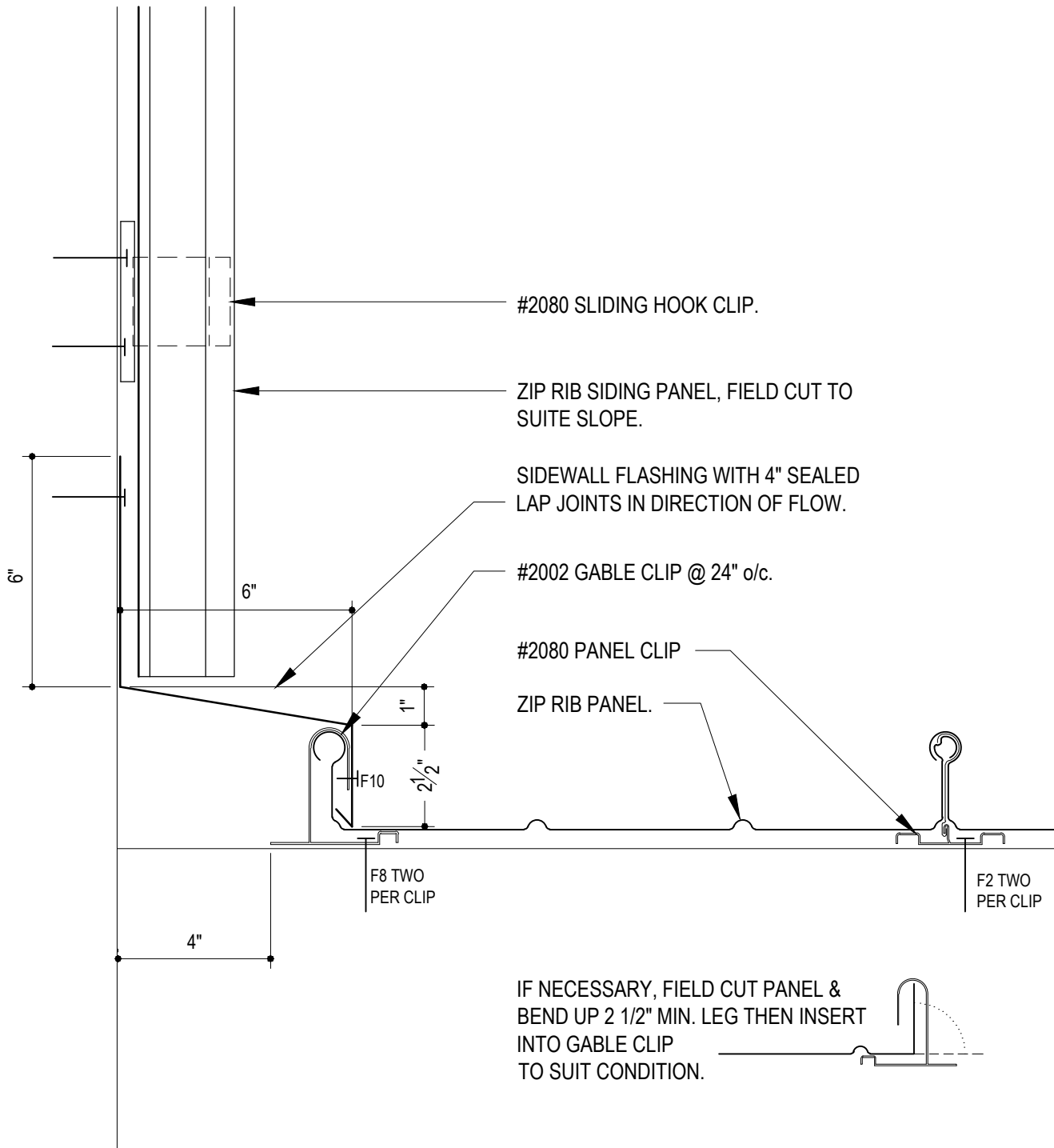
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ZIP-RIB®

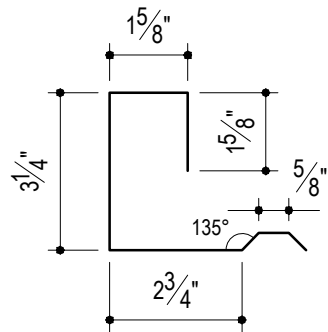
SIDEWALL @ SIDING



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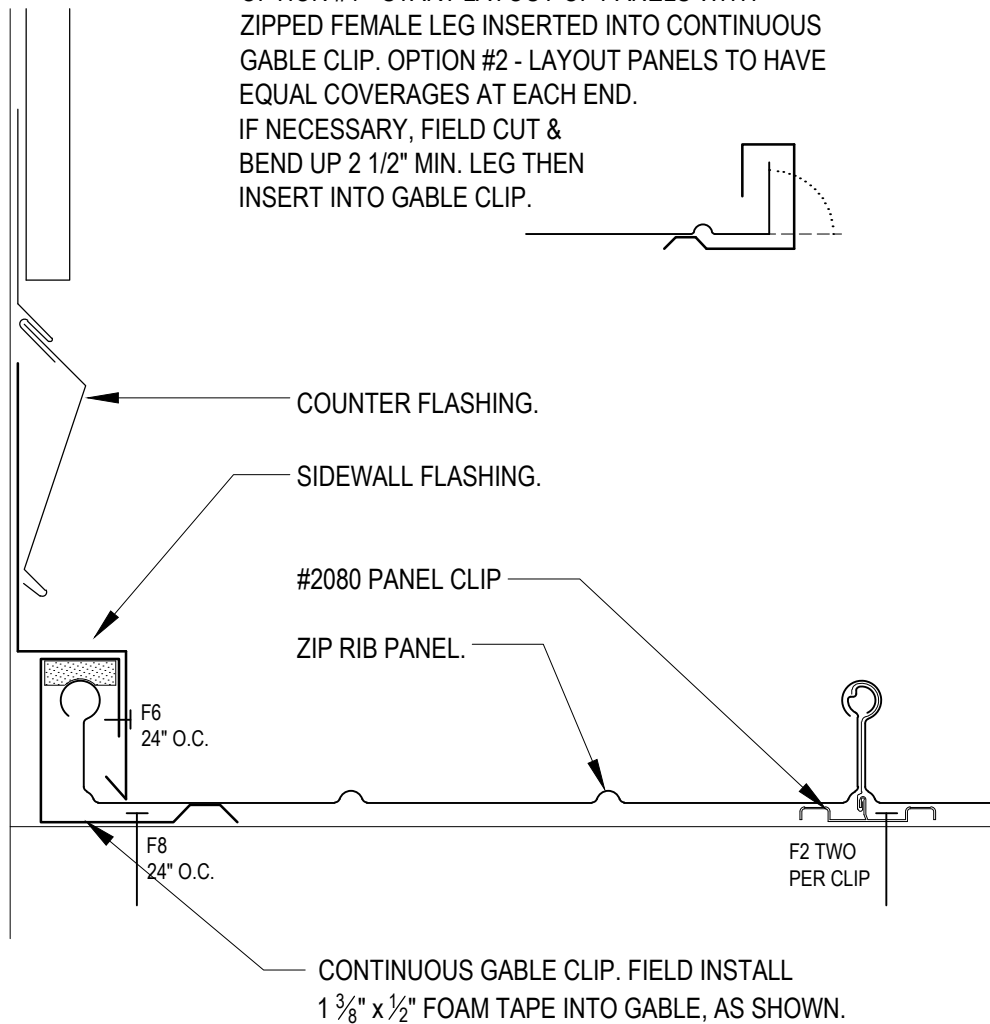


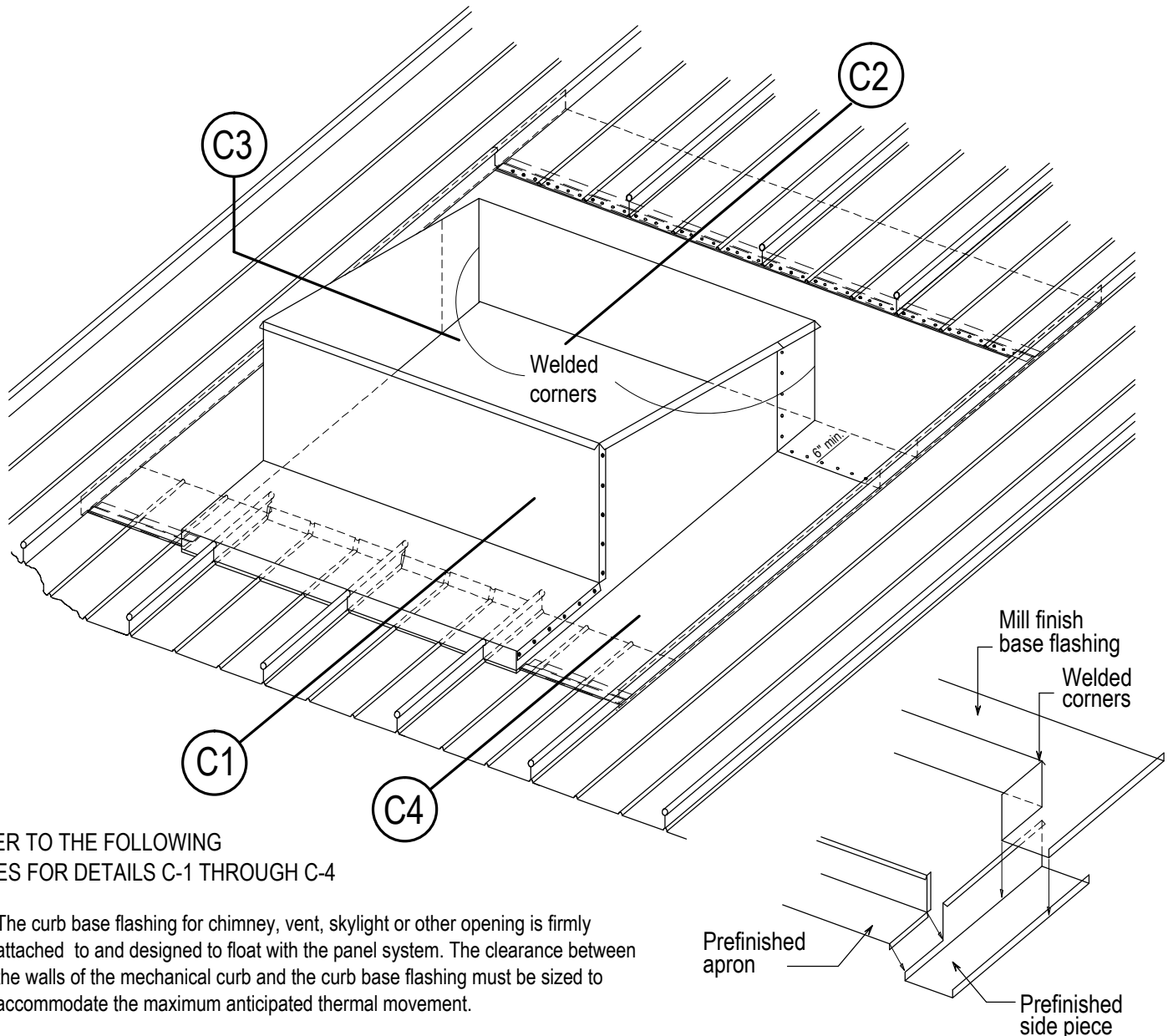
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CONTINUOUS GABLE CLIP

OPTION #1 - START LAYOUT OF PANELS WITH ZIPPED FEMALE LEG INSERTED INTO CONTINUOUS GABLE CLIP. OPTION #2 - LAYOUT PANELS TO HAVE EQUAL COVERAGES AT EACH END. IF NECESSARY, FIELD CUT & BEND UP 2 1/2" MIN. LEG THEN INSERT INTO GABLE CLIP.



CURB FLASHING ISOMETRIC

REFER TO THE FOLLOWING
PAGES FOR DETAILS C-1 THROUGH C-4

The curb base flashing for chimney, vent, skylight or other opening is firmly attached to and designed to float with the panel system. The clearance between the walls of the mechanical curb and the curb base flashing must be sized to accommodate the maximum anticipated thermal movement.

The panels upslope shed drainage on the back and side pans of the curb base flashing. The side pans and apron flashing shed on the downslope panels and off of the building.

In snow areas, Merchant & Evans, Inc recommend snow guards up slope to protect the curb from sliding ice & snow.

For projects with a weathertight warranty: The curb base flashing must be installed as indicated in order to qualify for the manufacturers warranty.

Prefinished
apron

Prefinished
side piece

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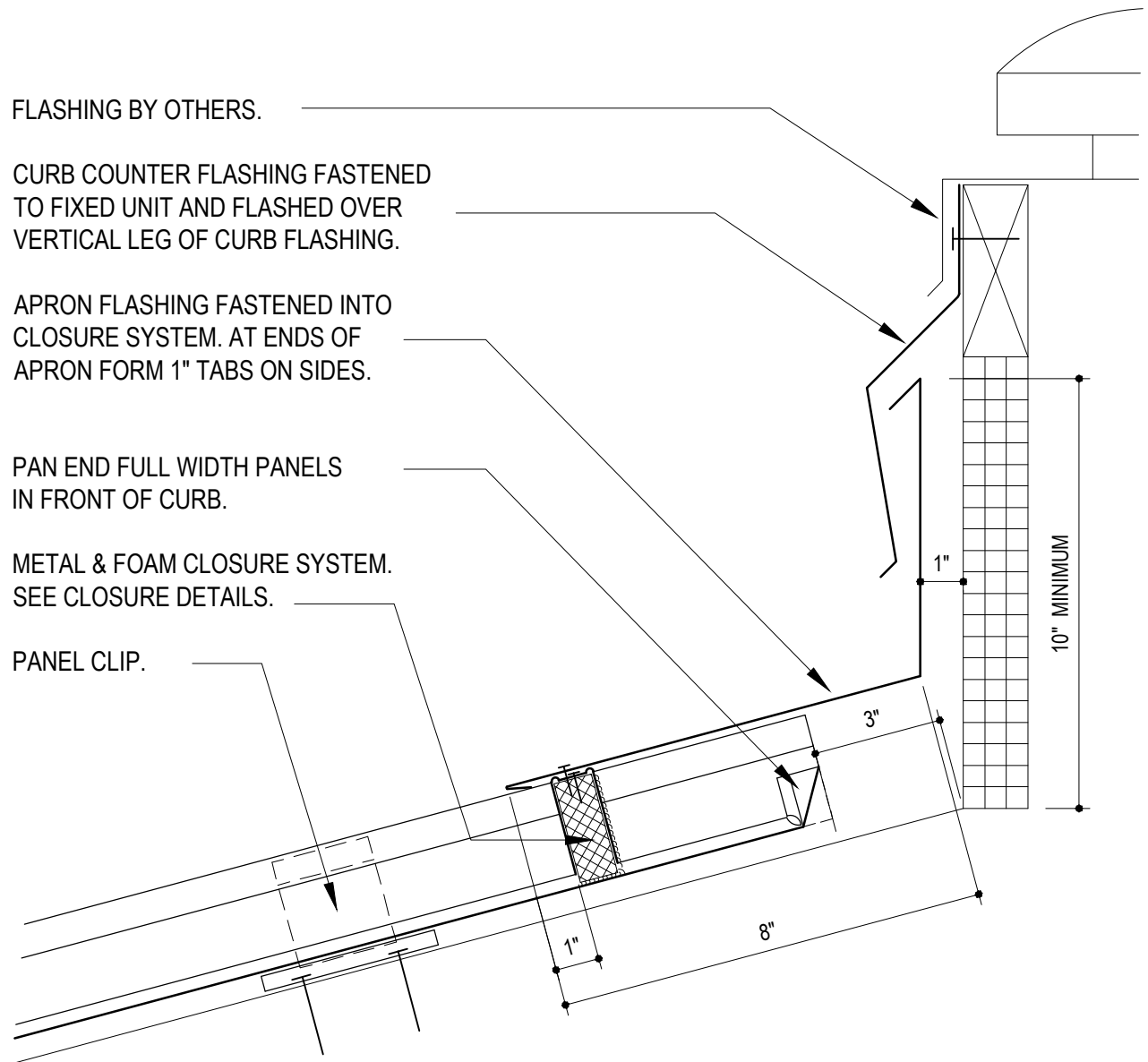
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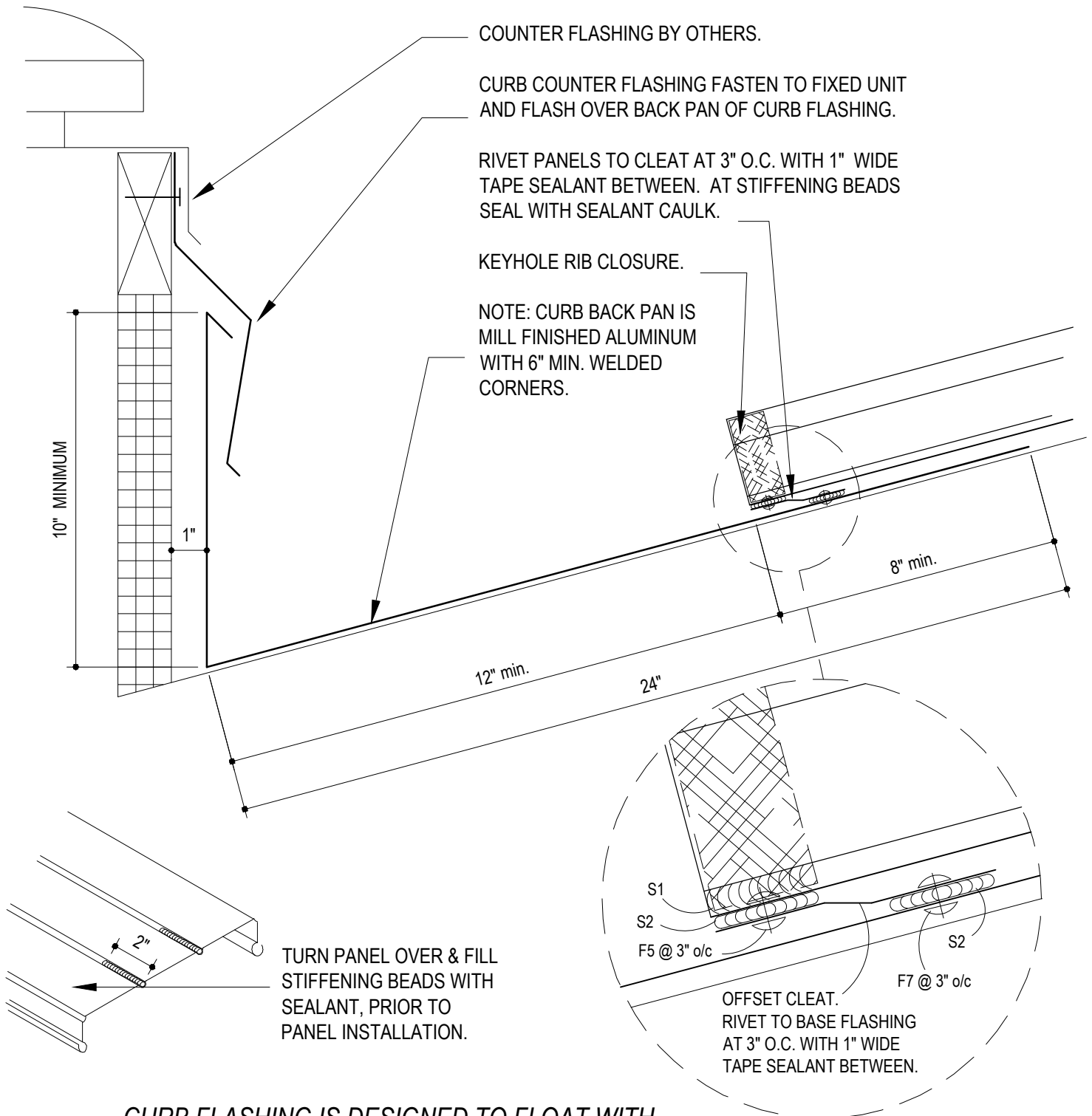
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CURB DETAIL - C1



*CURB FLASHING IS DESIGNED TO FLOAT WITH
EXPANSION & CONTRACTION OF PANELS.*

CURB DETAIL - C2



CURB FLASHING IS DESIGNED TO FLOAT WITH EXPANSION & CONTRACTION OF PANELS.

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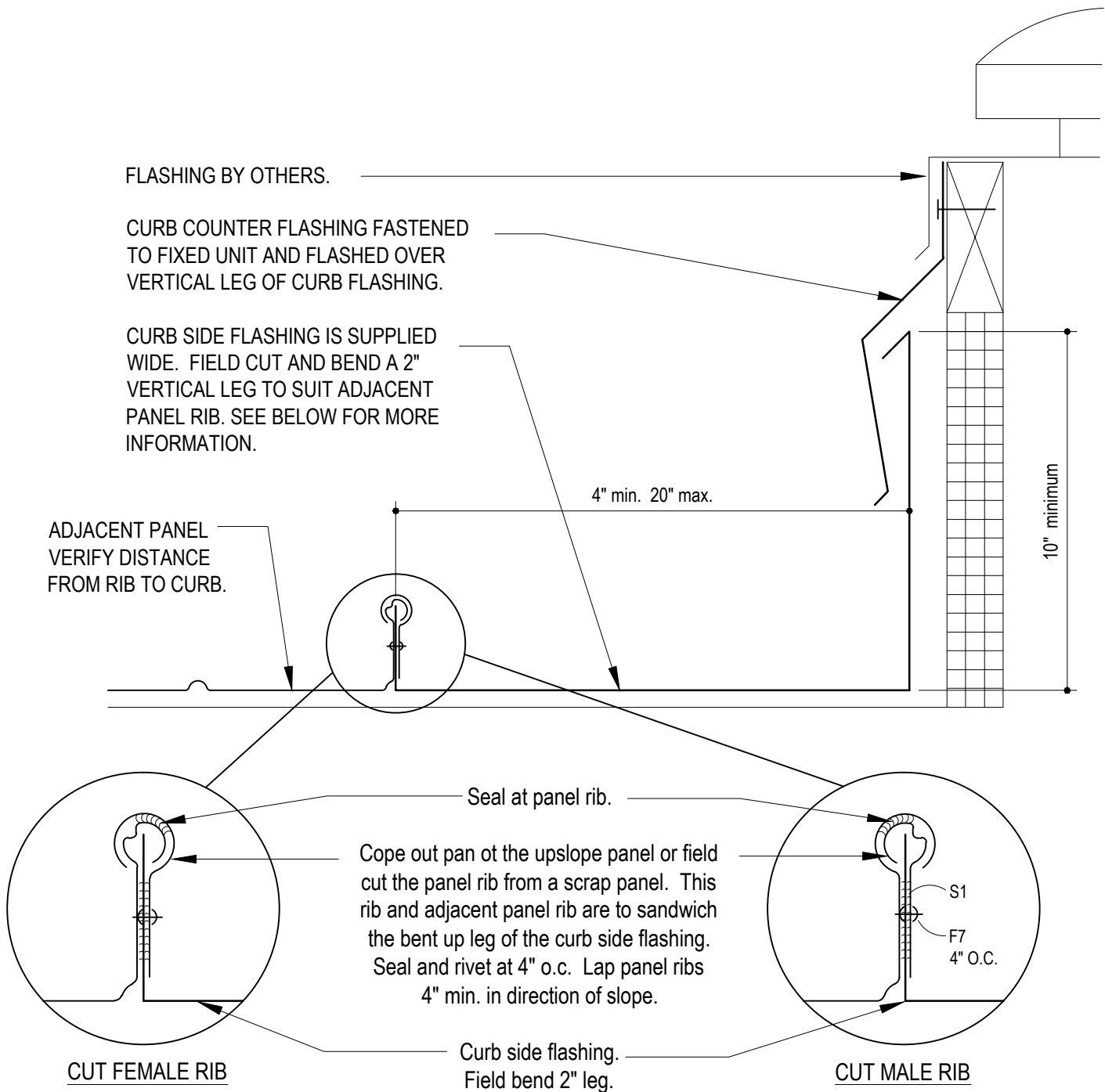
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CURB DETAIL - C3



***CURB FLASHING IS DESIGNED TO FLOAT WITH
EXPANSION & CONTRACTION OF PANELS.***

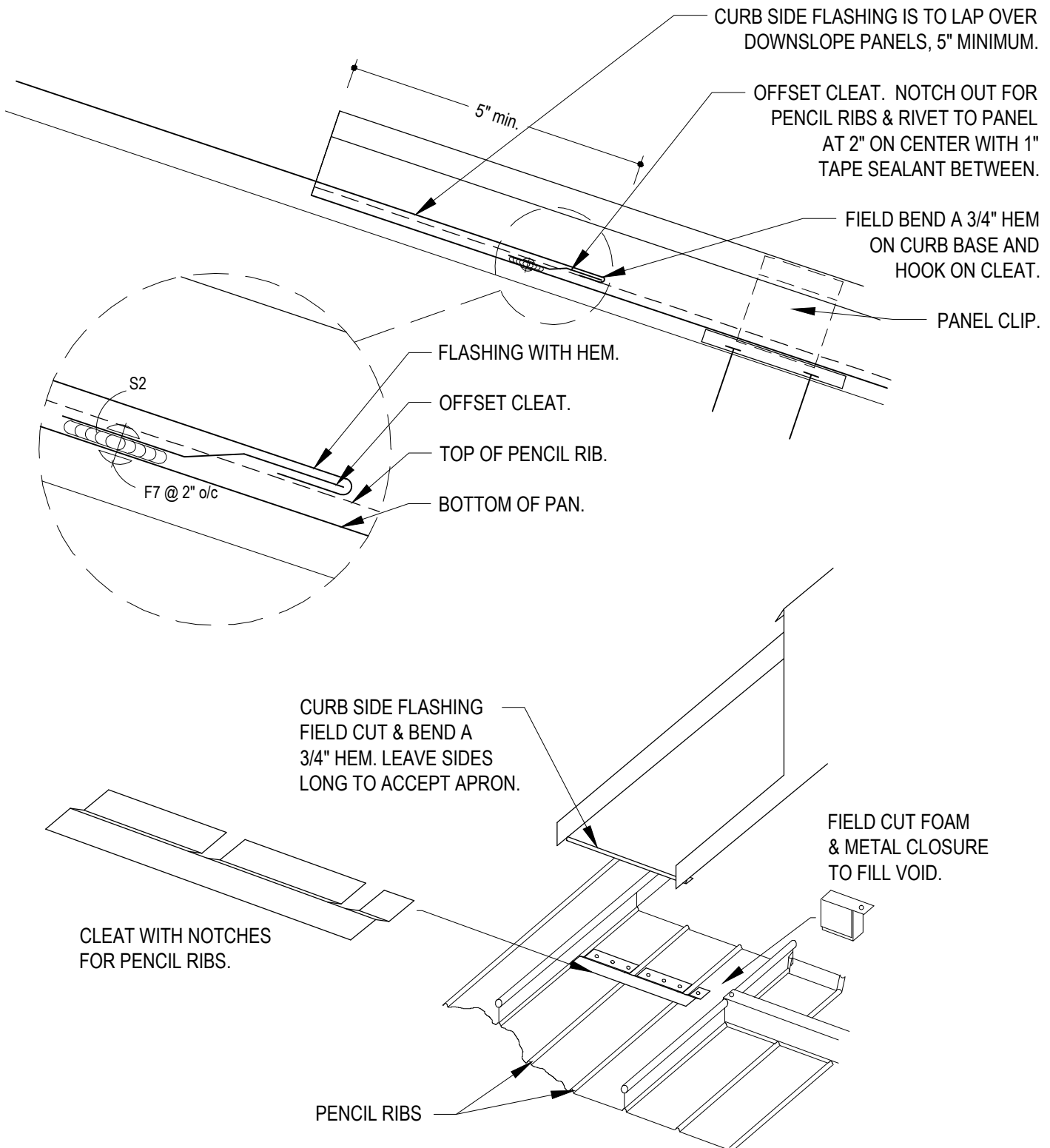
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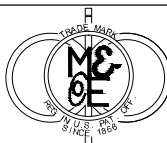
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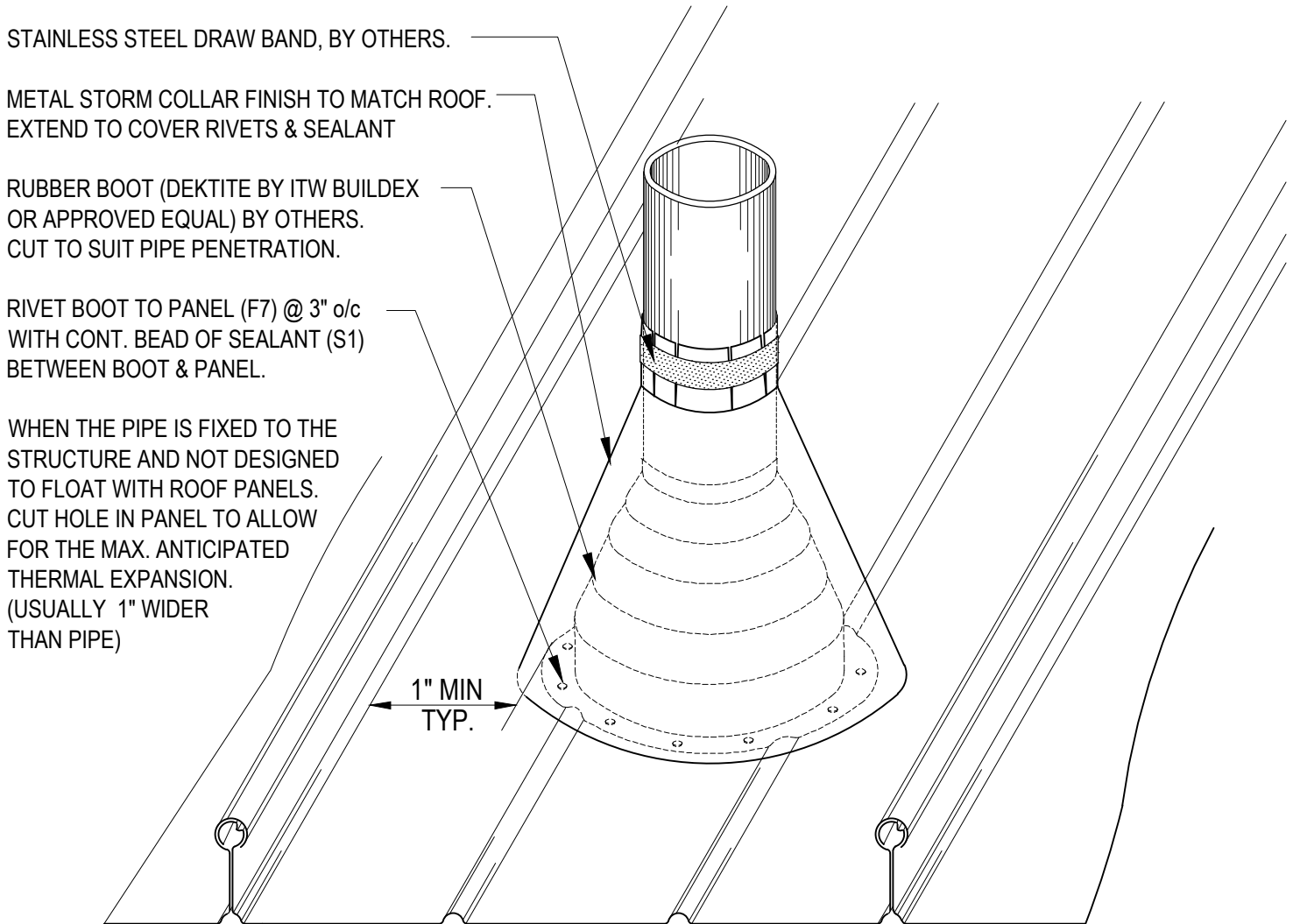
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PIPE PENETRATION (Rubber Boot)



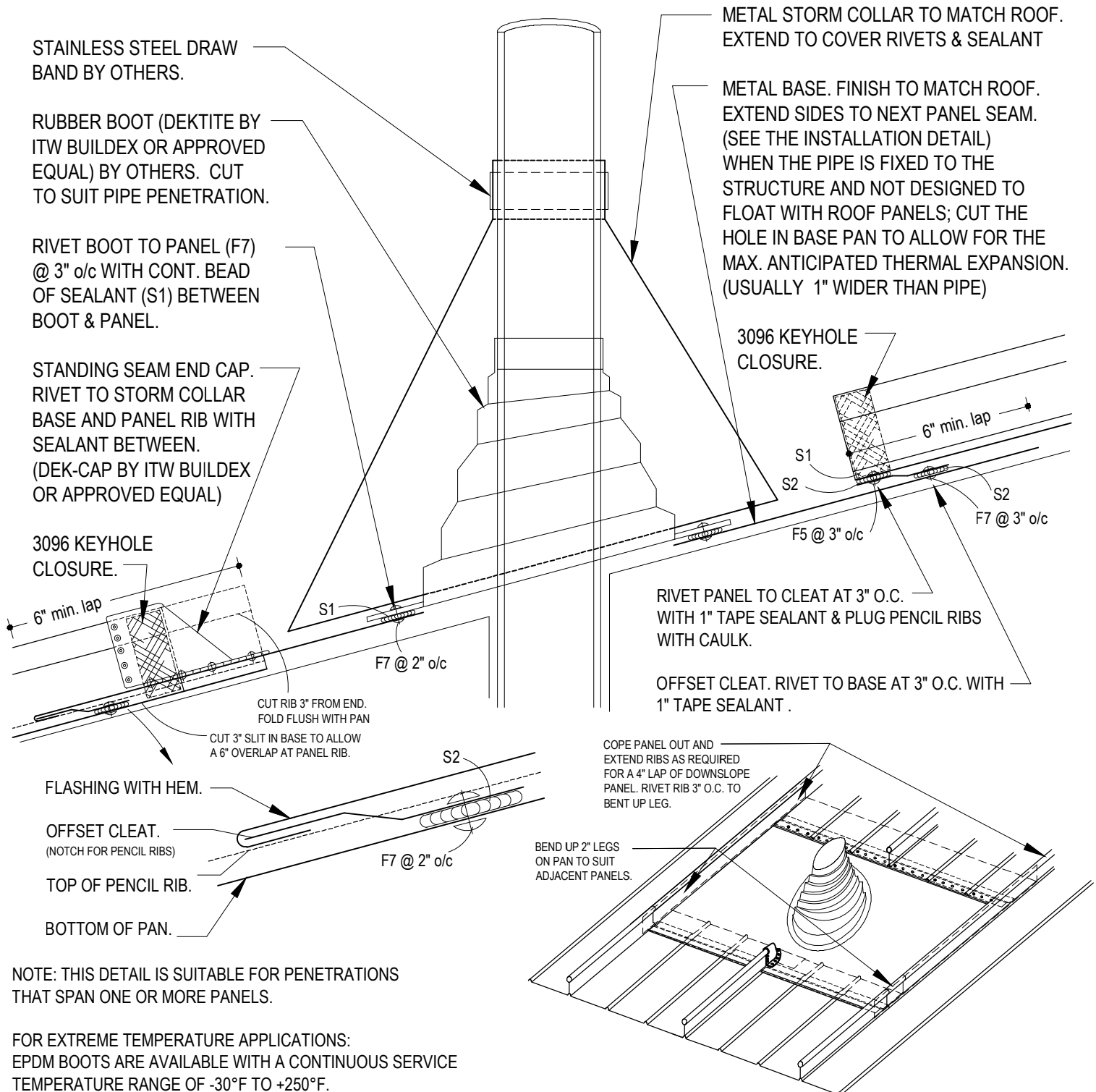
NOTE: THIS DETAIL IS ONLY SUITABLE FOR PENETRATIONS THAT ALLOW
FOR 1" MIN. CLEARANCE FROM OUTSIDE OF BOOT BASE TO PANEL RIB.
THE INSTALLER MUST COORDINATE WITH GC AND OTHER TRADES.

FOR EXTREME TEMPERATURE APPLICATIONS:

EPDM BOOTS ARE AVAILABLE WITH A CONTINUOUS SERVICE TEMPERATURE RANGE OF -30°F TO +250°F.

SILICONE BOOTS ARE AVAILABLE WITH A CONTINUOUS SERVICE TEMPERATURE RANGE OF -40°F TO +350°F.

PIPE PENETRATION - METAL BASE



NOTE: THIS DETAIL IS SUITABLE FOR PENETRATIONS THAT SPAN ONE OR MORE PANELS.

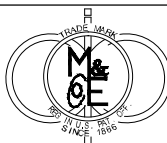
FOR EXTREME TEMPERATURE APPLICATIONS:
EPDM BOOTS ARE AVAILABLE WITH A CONTINUOUS SERVICE TEMPERATURE RANGE OF -30°F TO +250°F.
SILICONE BOOTS ARE AVAILABLE WITH A CONTINUOUS SERVICE TEMPERATURE RANGE OF -40°F TO +350°F.

FINAL ASSEMBLY. REFER TO METAL BASE PIPE PENETRATION INSTALLATION DETAIL FOR MORE INFORMATION.

Detail shown is standard and must be designed specific to a project.

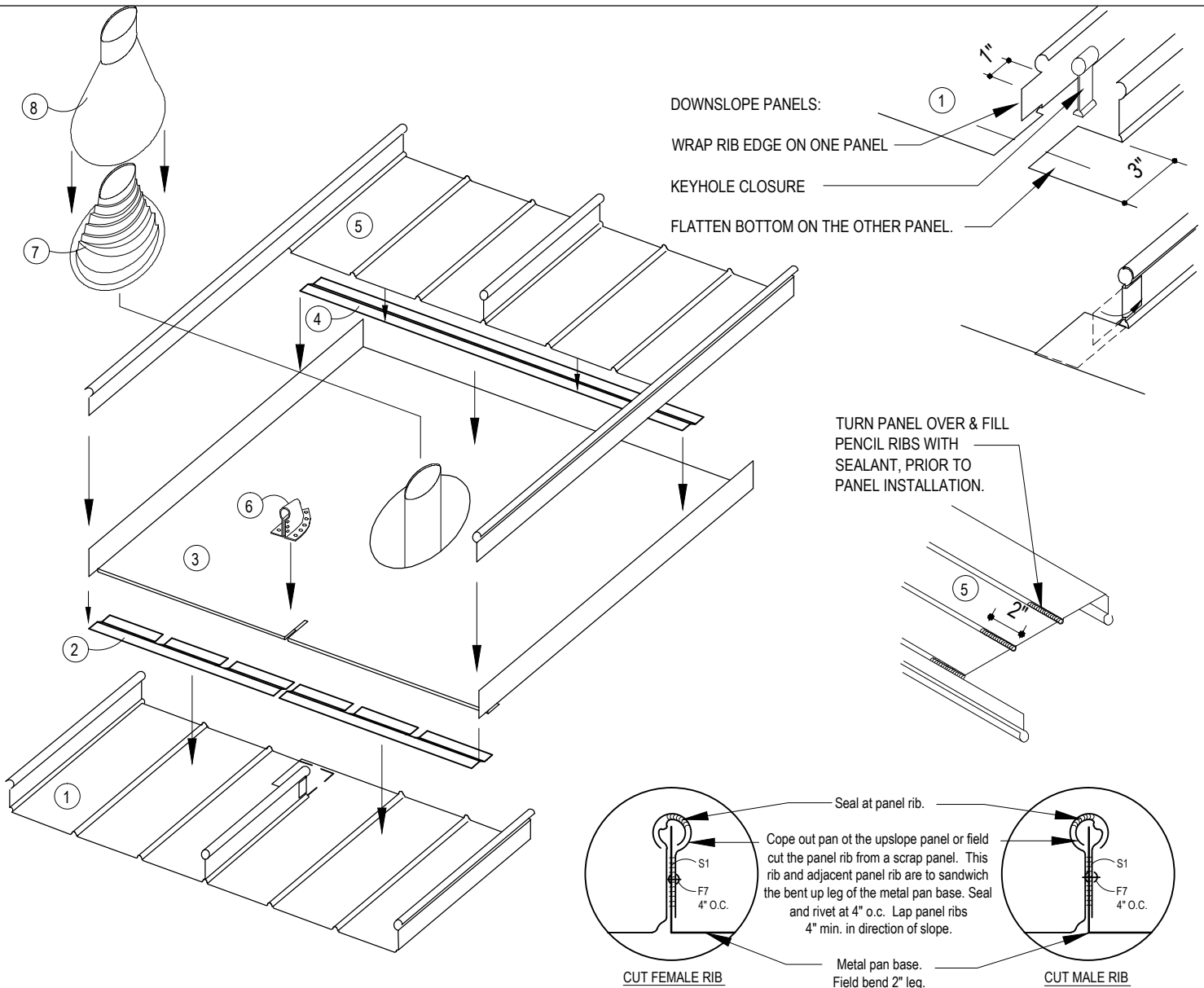
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PIPE PENETRATION - METAL BASE INSTALLATION



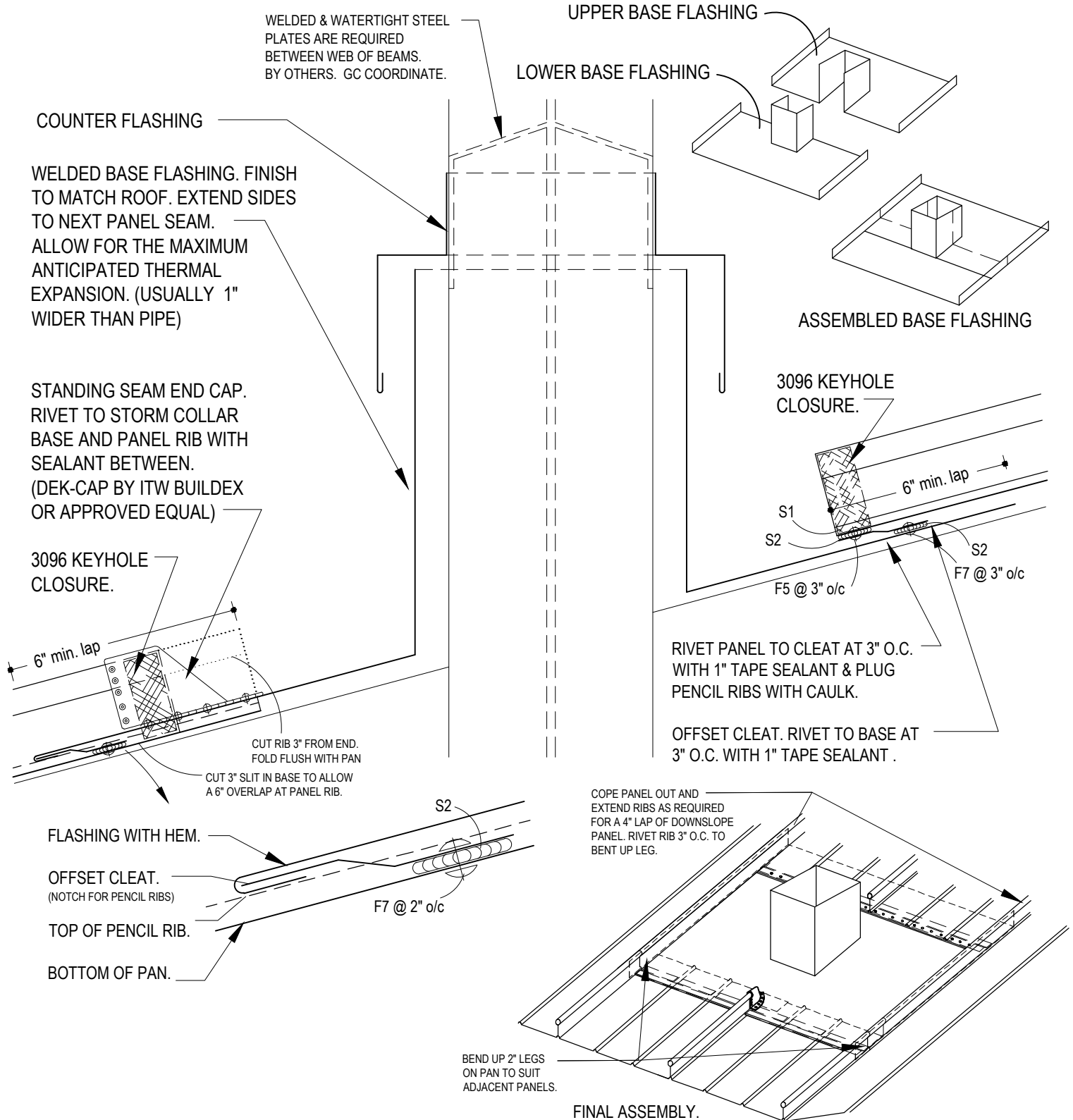
ORDER OF INSTALLATION

- ① **DOWNSLOPE PANELS:** a) FIELD CUT & BEND TOP 3" OF RIB AS SHOWN ABOVE. b) INSERT KEYHOLE CLOSURE.
- ② **CLEAT ON DOWNSLOPE PANELS:** a) NOTCH OUT FOR PENCIL RIBS. b) RIVET 2" O.C. WITH 1" TAPE SEALANT BETWEEN.
- ③ **METAL BASE:** a) CUT HOLE IN BASE AND SET OVER PIPE. b) BEND 2" LEGS TO SUIT ADJACENT PANELS.
c) CUT 3" SLIT TO LAP DOWNSLOPE PANELS 6". d) FIELD BEND A 3/4" HEM AND HOOK TO CLEAT.
- ④ **CLEAT ON METAL BASE:** a) RIVET 3" O.C. WITH 1" TAPE SEALANT BETWEEN.
- ⑤ **UPSLOPE PANELS:** a) COPE OUT PAN LEAVING THE RIB ONLY. b) FILL BOTTOM 2" OF PENCIL RIBS WITH SEALANT.
c) RIVET RIB TO BENT LEG OF BASE AT 4" O.C. WITH SEALANT BETWEEN. d) INSERT KEYHOLE CLOSURE.
e) RIVET TO CLEAT 3" O.C. 1" TAPE SEALANT BETWEEN.
- ⑥ **STANDING SEAM END CAP:** (DEK-CAP BY ITW BUILDDEX OR APPROVED EQUAL) RIVET TO PAN & BASE 2" O.C. WITH SEALANT BETWEEN.
- ⑦ **RUBBER BOOT:** (DEK-TITE BY ITW BUILDDEX OR APPROVED EQUAL) RIVET TO PAN & BASE 2" O.C. WITH SEALANT
- ⑧ **STORM COLLAR:** (SAME MATERIAL AS ROOF) a) FIELD CUT AS REQUIRED FOR SLOPE. b) ATTACH WITH STAINLESS STEEL DRAW BAND.

Updated December 2011

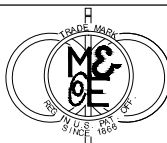
Detail shown is standard and must be designed specific to a project.

BEAM PENETRATION - 2 PIECE METAL BASE



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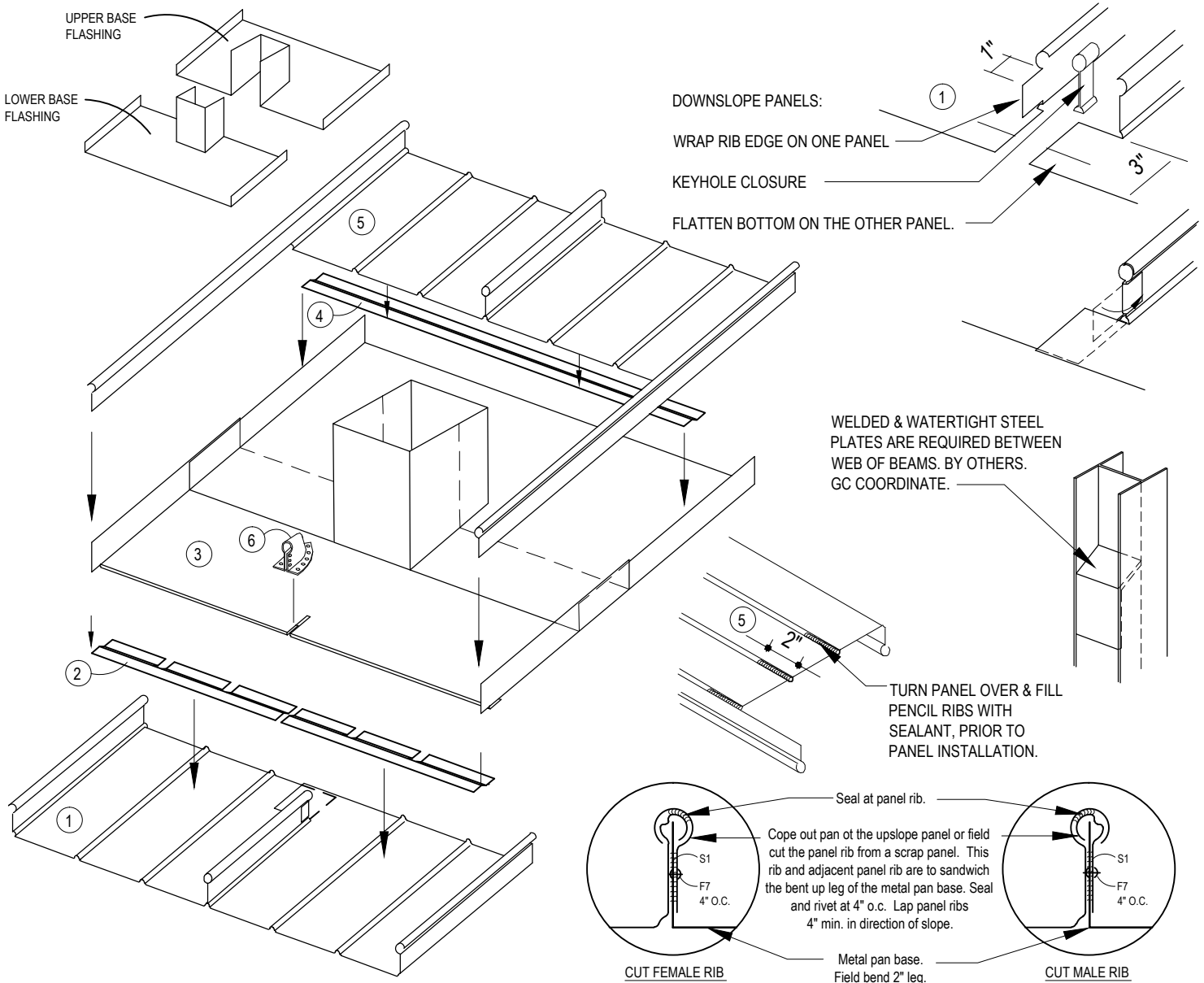
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BEAM PENETRATION - INSTALLATION



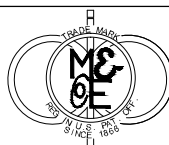
ORDER OF INSTALLATION

- ① **DOWNSLOPE PANELS:** a) FIELD CUT & BEND TOP 3" OF RIB AS SHOWN ABOVE. b) INSERT KEYHOLE CLOSURE.
- ② **CLEAT ON DOWNSLOPE PANELS:** a) NOTCH OUT FOR PENCIL RIBS. b) RIVET 2" O.C. WITH 1" TAPE SEALANT BETWEEN.
- ③ **METAL BASE:** a) ASSEMBLE UPPER & LOWER BASE. b) BEND 2" LEGS TO SUIT ADJACENT PANELS.
c) CUT 3" SLIT TO LAP DOWNSLOPE PANELS 6". d) FIELD BEND A 3/4" HEM AND HOOK TO CLEAT.
- ④ **CLEAT ON METAL BASE:** a) RIVET 3" O.C. WITH 1" TAPE SEALANT BETWEEN.
- ⑤ **UPSLOPE PANELS:** a) COPE OUT PAN LEAVING THE RIB ONLY. b) FILL BOTTOM 2" OF PENCIL RIBS WITH SEALANT.
c) RIVET RIB TO BENT LEG OF BASE AT 4" O.C. WITH SEALANT BETWEEN. d) INSERT KEYHOLE CLOSURE.
e) RIVET TO CLEAT 3" O.C. 1" TAPE SEALANT BETWEEN.
- ⑥ **STANDING SEAM END CAP:** (DEK-CAP BY ITW BUILDDEX OR APPROVED EQUAL) RIVET TO PAN & BASE 2" O.C. WITH SEALANT BETWEEN.
- ⑦ **COUNTER FLASHING:** (NOT SHOWN) INSTALL COUNTER FLASHING TO ALLOW FOR THERMAL EXPANSION.

Updated December 2011

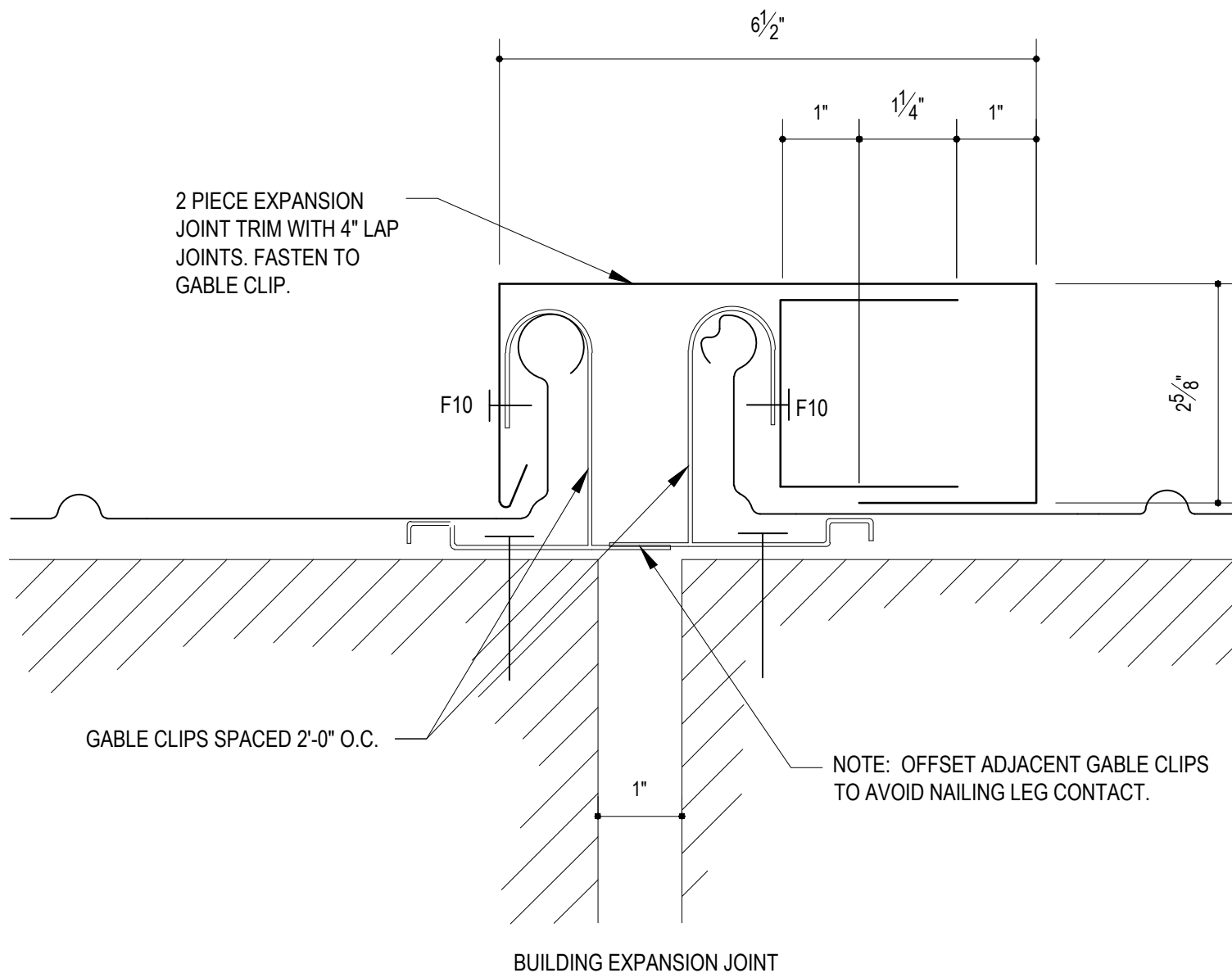
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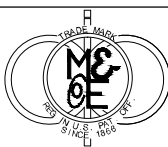
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PANEL EXPANSION JOINT



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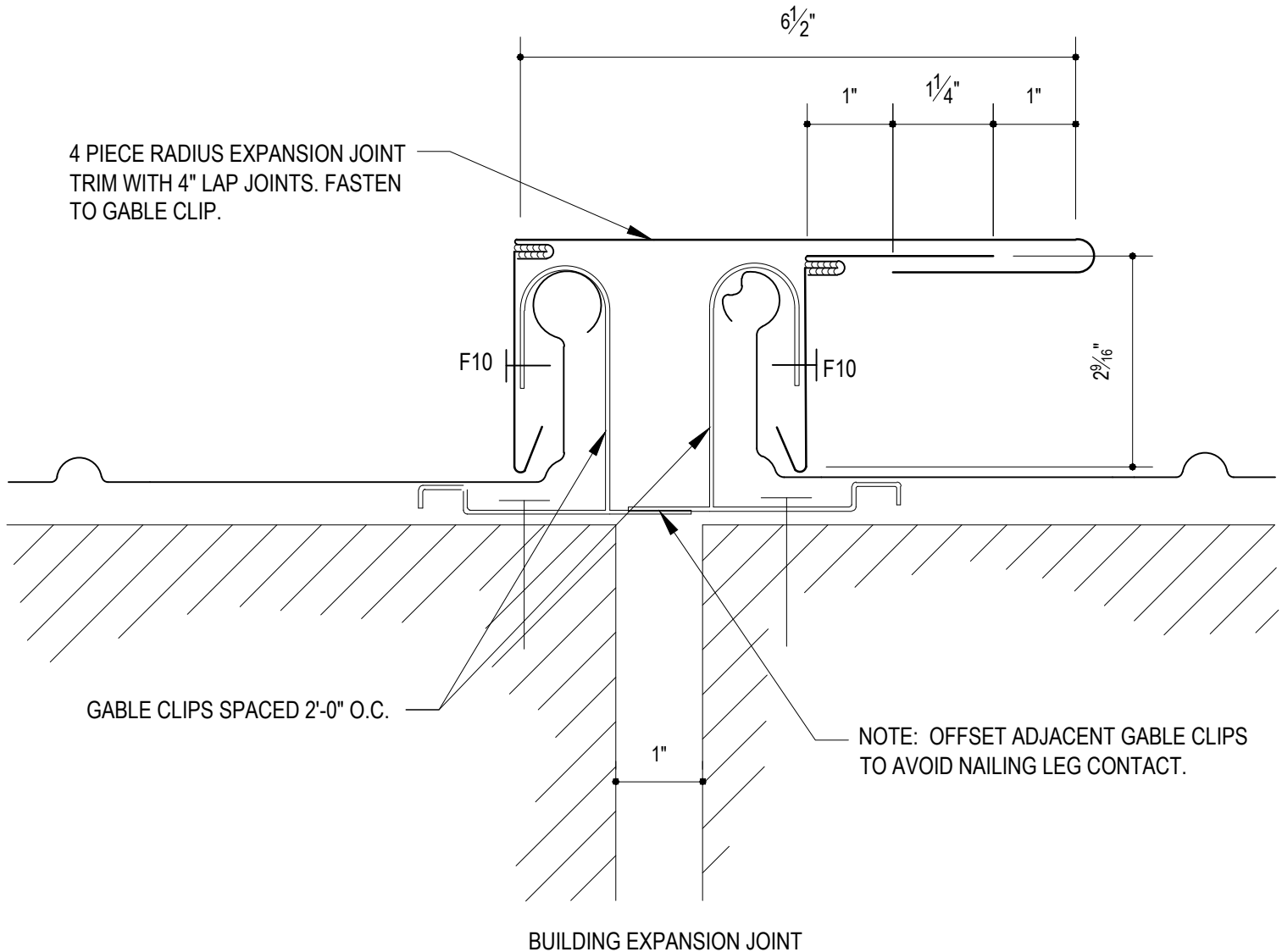
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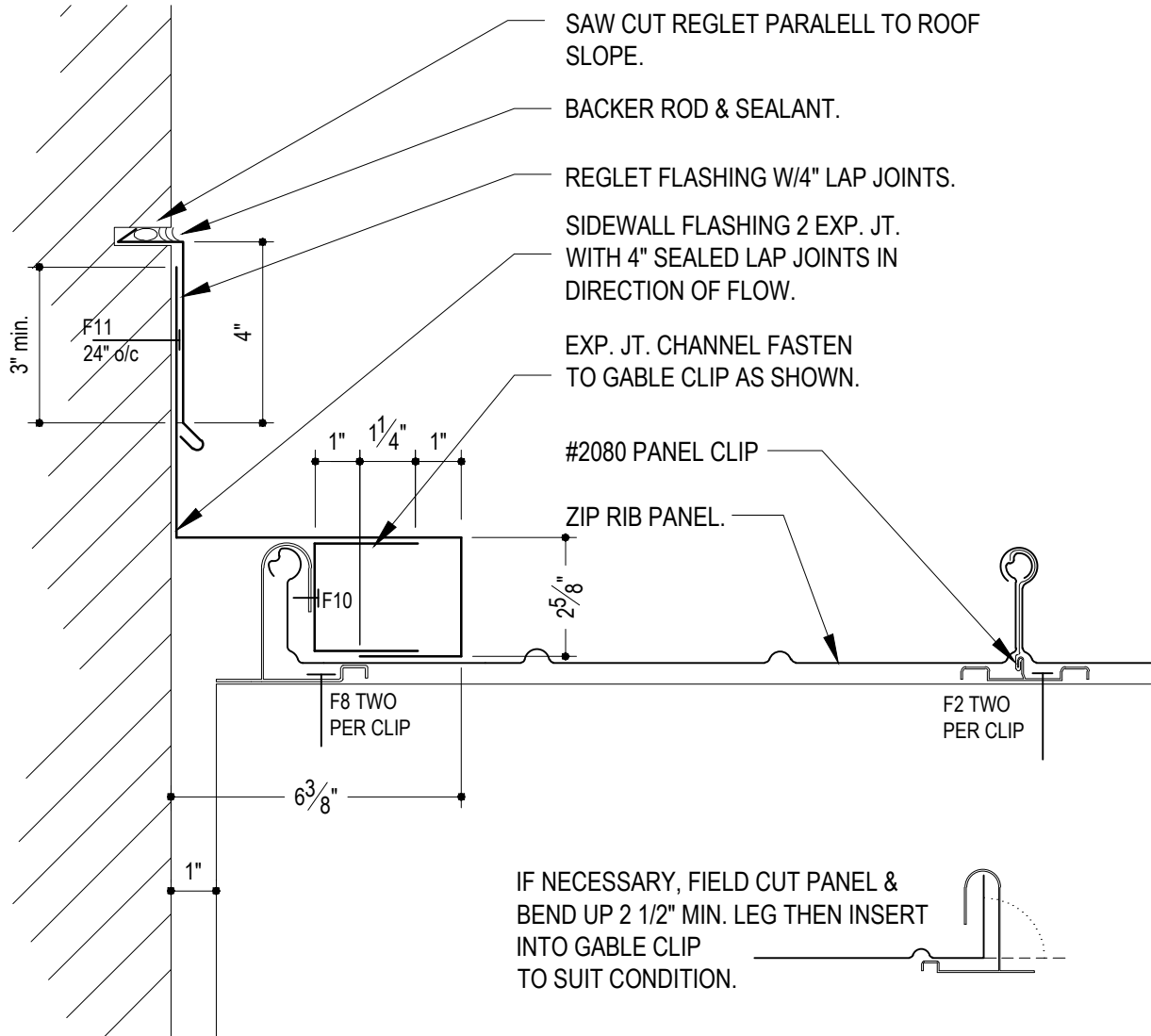
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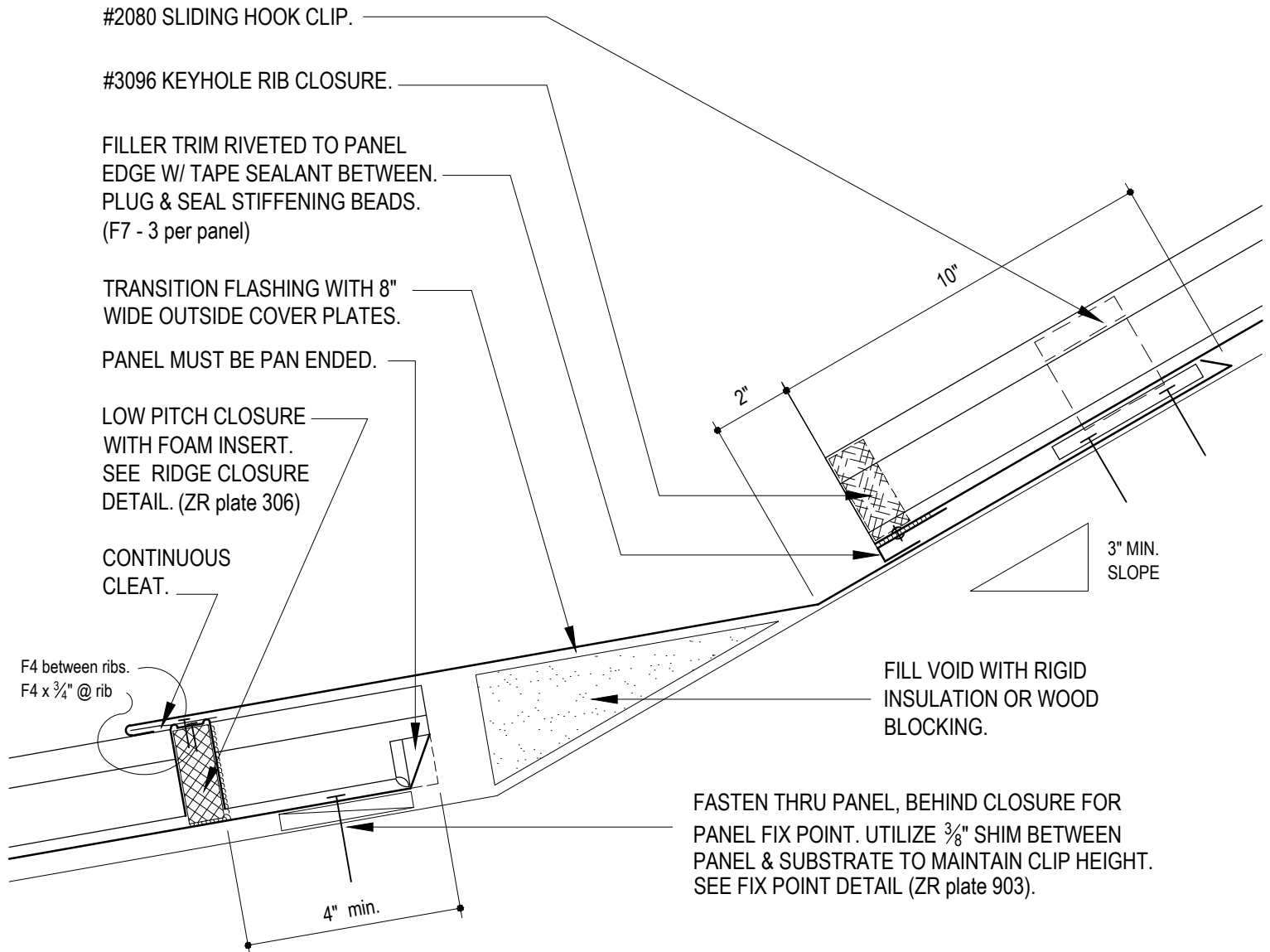
RADIUS PANEL EXPANSION JOINT



EXPANSION JOINT AT SIDEWALL



SLOPE TRANSITION



OPTION #1 - START LAYOUT OF PANELS WITH ZIPPED FEMALE LEG INSERTED INTO GABLE CLIP.
OPTION #2 - LAYOUT PANELS TO HAVE EQUAL COVERAGES AT EACH END. IF NECESSARY, FIELD CUT & BEND UP 2" MIN. LEG THEN INSERT INTO GABLE CLIP.

HIP / RAKE FLASHING WITH 4" SEALED LAP JOINTS.

FASTEN THRU PANEL, BEHIND CLOSURE FOR PANEL FIX PT. UTILIZE $\frac{3}{8}$ " SHIM BETWEEN PANEL & SUBSTRATE TO MAINTAIN CLIP HEIGHT

HIP CLOSURE WITH FOAM INSERT. SEE HIP CLOSURE DETAIL.(ZR plate 311)

OFFSET CLEAT FASTEN TO CLOSURE.

F4 between ribs.
F4 x $\frac{3}{4}$ " @ rib

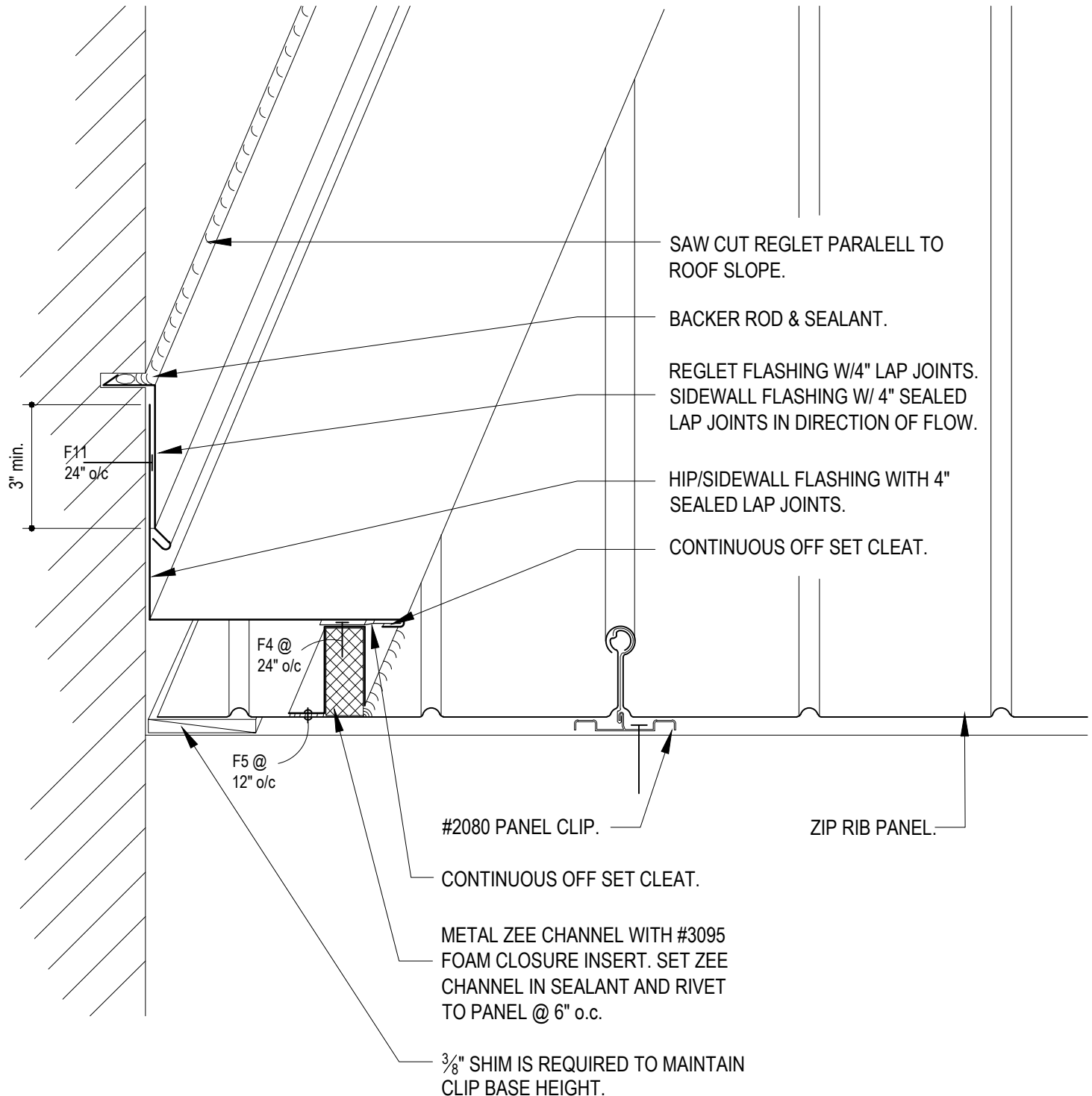
10"

10"

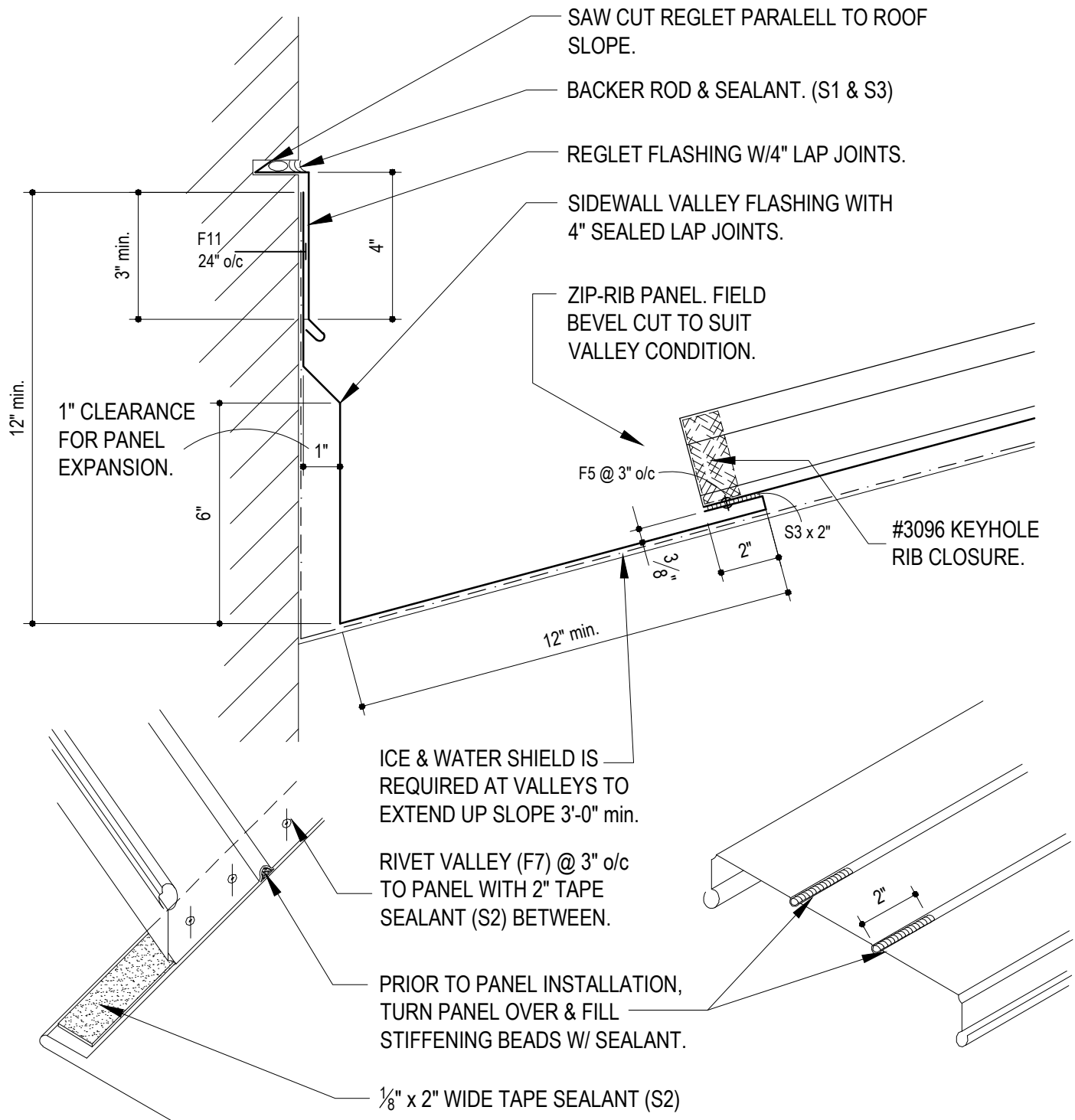
F10
2 1/2"
F8 TWO PER CLIP

ZIP RIB PANEL.

#2002 GABLE CLIP @ 24" o/c.



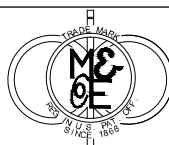
VALLEY / SIDEWALL



Updated December 2011

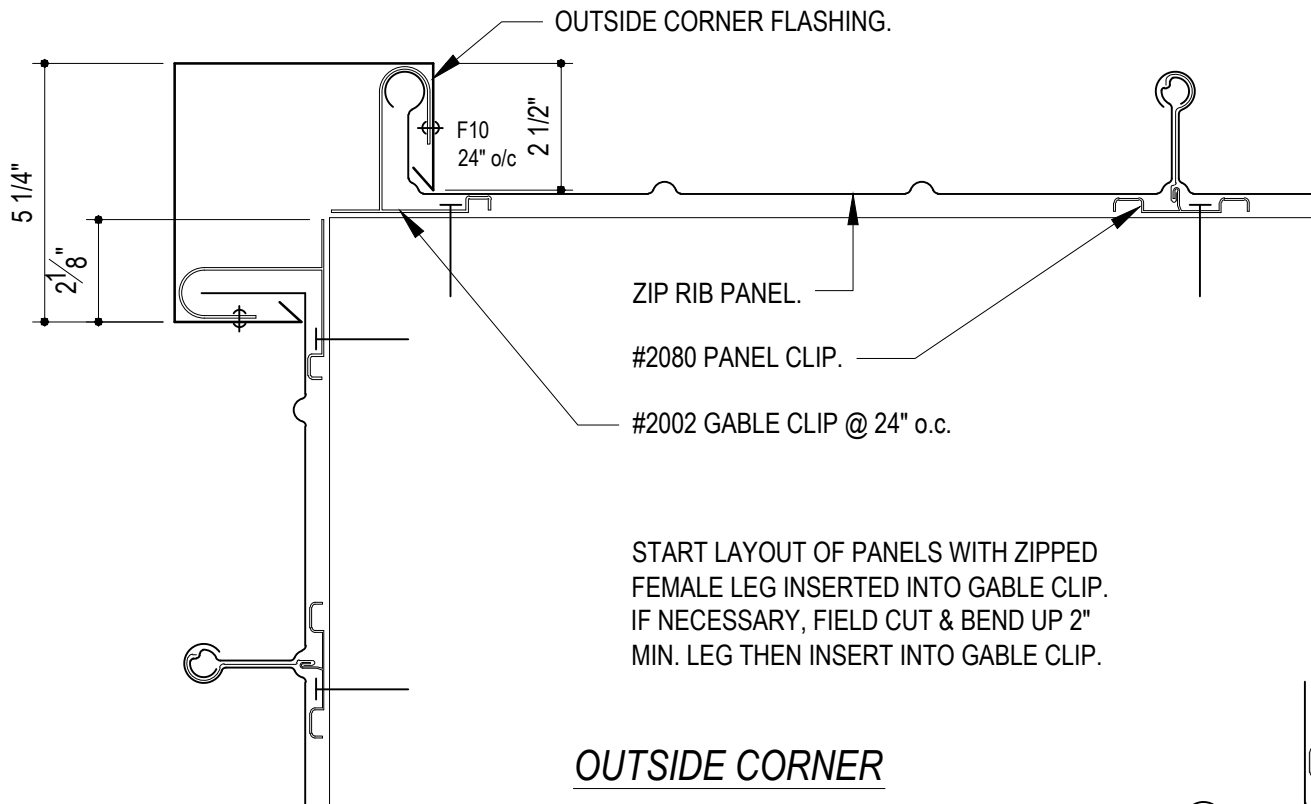
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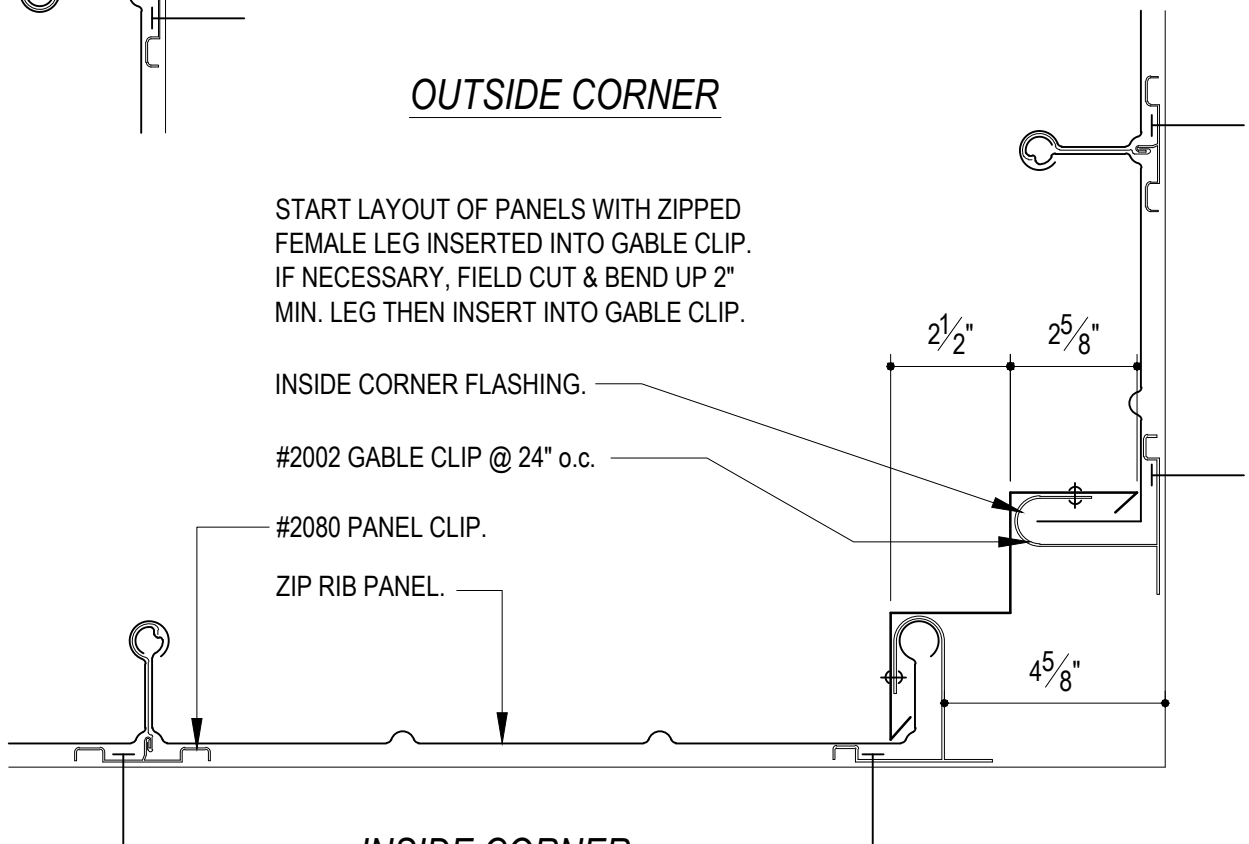


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CORNER DETAILS



OUTSIDE CORNER

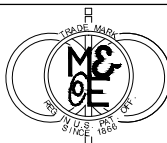


INSIDE CORNER

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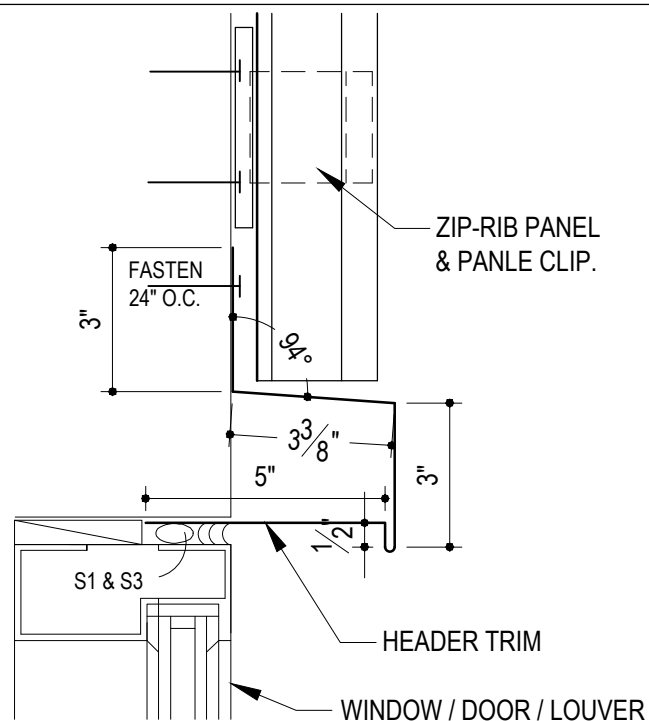
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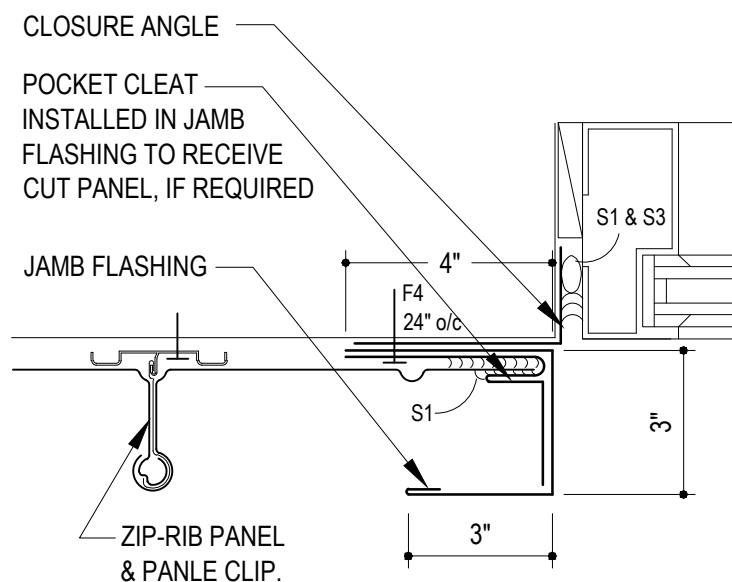


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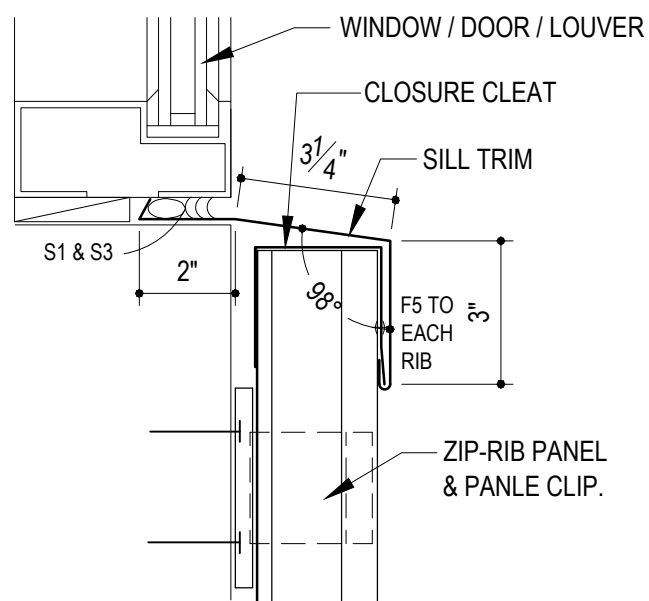
SIDING DETAILS



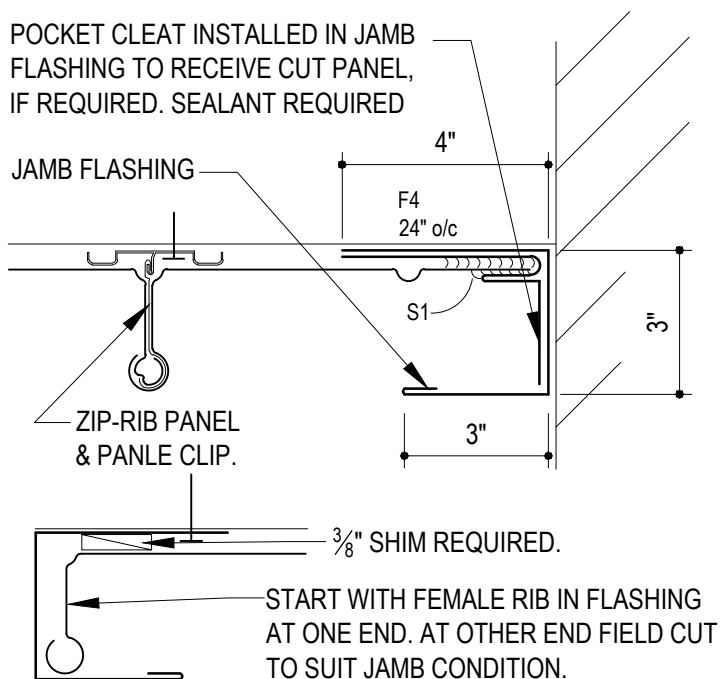
WINDOW / DOOR / LOUVER HEADER



WINDOW / DOOR/ LOUVER JAMB



WINDOW / LOUVER SILL



END WALL CONDITION


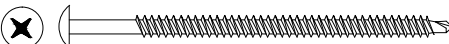


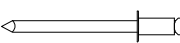
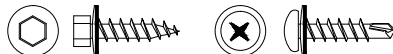
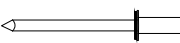
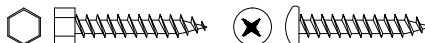
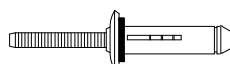



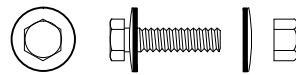

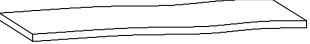

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NO.	APPLICATION	FASTENER / SEALANT DESCRIPTION
F1	Clip attachment to steel purlins or hats 14 ga or lighter	$\frac{1}{4}$ - 14 x $\frac{1}{4}$ " HWH TEK 2 self-drilling screw (or length as required). <input type="checkbox"/> Plated steel <input type="checkbox"/> Stainless steel  Length as required for min. 1" penetration.
F2	Clip attachment to metal decking.	#14 diameter self-drilling deck screw (Dekfast or equal - Tru-Fast for St. Stl.). <input type="checkbox"/> Plated steel <input type="checkbox"/> Stainless steel  Length as required for min. 1" penetration.
F3	Clip attachment to steel purlins from .25" to .5" thick.	$\frac{1}{4}$ - 14 x $\frac{1}{2}$ " HWH TEK 5 self-drilling screw. (or length as required) <input type="checkbox"/> Plated steel  Length as required for min. 1" penetration.
F4	Securing ridge closures to panel ribs or concealed cleats.	#12 diameter, low profile sheet metal screw (Concealor or equal). <input type="checkbox"/> Plated steel <input type="checkbox"/> Stainless steel  Pan head or Pancake head, length as required.
F5	Securing ridge closures to panel ribs. Securing drip angle to panels.	$\frac{3}{16}$ " diameter rivet (.16" to .25" grip). <input type="checkbox"/> Aluminum <input type="checkbox"/> Stainless steel <input type="checkbox"/> Painted 
F6	Exposed sheet metal to screw sheet metal or sheet metal to wood.	#14 diameter sheet metal screw with bonded neoprene washer. <input type="checkbox"/> Plated steel <input type="checkbox"/> Stainless steel <input type="checkbox"/> Painted  Hex or philips head - "A" point or self-drilling. length as required.
F7	Exposed sheet metal to sheet metal.	$\frac{3}{16}$ " closed end rivet with epdm washer or plugged with sealant (S1). <input type="checkbox"/> Aluminum <input type="checkbox"/> Stainless steel <input type="checkbox"/> Painted  Use standard (F5) rivet with washer if stainless steel rivet is req'd.
F8	Clip attachment into plywood. Sheet metal to sheet metal- watertightness is not critical.	#14 diameter "A" point screw. <input type="checkbox"/> Plated steel <input type="checkbox"/> Stainless steel  Hex or philips head. Clip attachment, length as req'd for 1 $\frac{1}{2}$ " penetration.
F9	Zip-Rib panel end splice.	Bulb-tite rivet #RV6605-0906-w * (aluminum only). Requires a special tool, not by M&E 
F9a	Sheet metal to sheet metal where high strength & watertightness is critical.	Bulb-tite rivet #RV6604-0604-w (aluminum only). 
F10	Sheet metal to coated gable clips.	#12 x $\frac{5}{8}$ " long self-drilling sheet metal screw or utilize standard rivet (F5). <input type="checkbox"/> Plated steel <input type="checkbox"/> Stainless steel  5/8" LENGTH REQUIRED.
F11	Flashing fastener into concrete/block/masonry.	$\frac{1}{4}$ " x $\frac{3}{4}$ " nailin (Zamac #2809 or equal) or $\frac{3}{16}$ " x 1 $\frac{1}{4}$ " concrete screw (Tapcon or equal). <input type="checkbox"/> Plated steel <input type="checkbox"/> Stainless steel 
F12	Fix Point Thru-Bolt	$\frac{1}{4}$ " x 1" HHCS Stainless Steel Bolt with bonded neoprene washer & Stainless Steel Nut with bonded neoprene washer. 
S1	"Dynamically moving joints" Around ssr endlaps, exterior joints, curbs, flashing laps.	One part polyurethane equal to Sika corp. Sikaflex 201. 
S2	"Non-moving joints" Used as a gasket type. Seal held in compression.	$\frac{1}{8}$ " x 1" (2" at valleys) butyl tape sealant equal to Sika corp. Sikalastomer isobutylene tripolymer tape. 
S3	Gasket material for reglet flashing.	$\frac{1}{2}$ " diameter closed-cell backer rod. 

FASTENER NOTES:

- 1) FASTENERS ARE NOT SUPPLIED BY MERCHANT & EVANS, INC.
- 2) ALL SELF-DRILLING SCREWS SHOULD BE MATCHED TO THE MATERIAL & GAUGE TO WHICH THEY ARE SCREWING THEM INTO.
- 3) IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE FASTENERS PERFORMANCE AND COMPLIANCE TO SPECIFICATION.

SEALANT NOTES:

- 1) SEALANTS ARE NOT SUPPLIED BY MERCHANT & EVANS, INC.
- 2) PRIMERS ARE HIGHLY RECOMMENDED WITH SEALANTS TO IMPROVE BOND STRENGTH. (REFER TO SEALANT MANUFACTURE FOR TECHNICAL DATA IF A PRIMER IS REQUIRED).

Updated December 2011

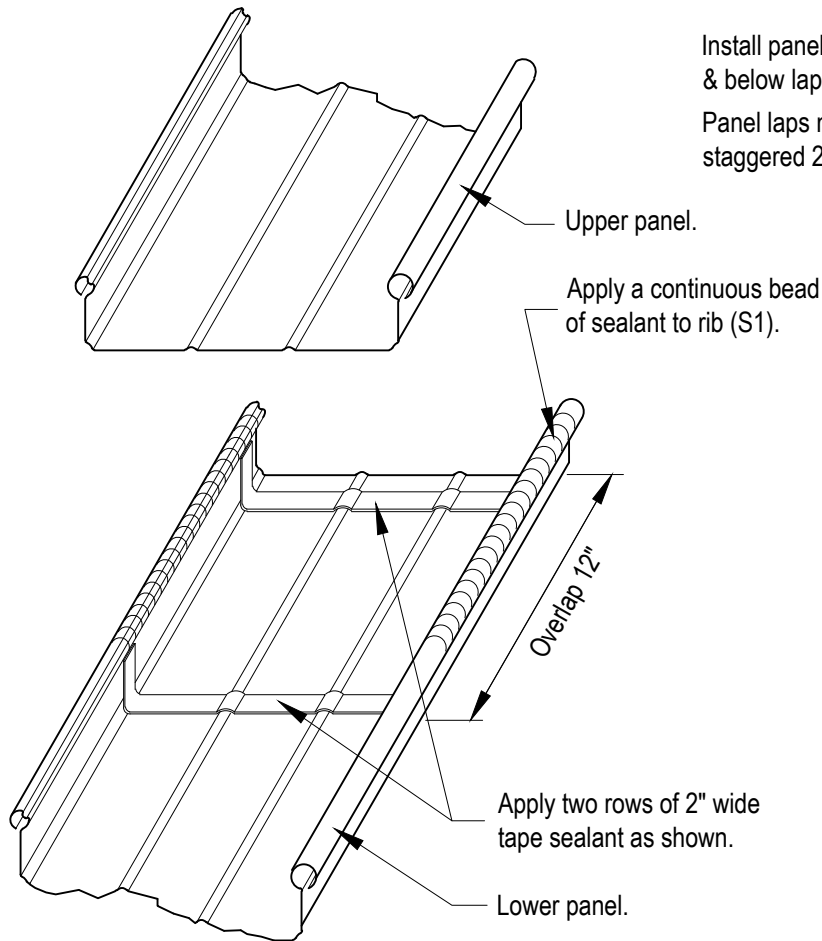
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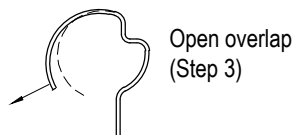
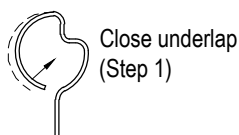
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ZIP RIB PANEL LAP



INSTALLATION PROCEDURE

STEP 1 - Close bulb on male rib of lower panel for length of lap and install.



STEP 2 - Apply two rows of 2" wide tape sealant across the lower panel as shown. Apply a continuous bead of sealant to the bulb of the lower panel for the length of the panel lap before setting down the upper panel.

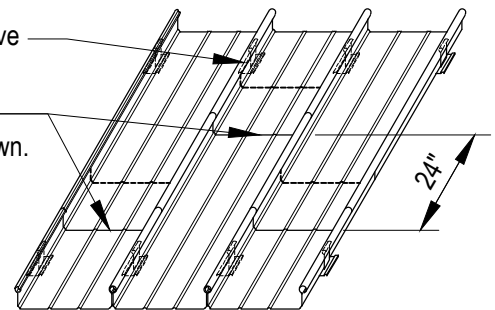
STEP 3 - Open the bulb of the over lapping panel for the length of the lap and press the panel into place.

STEP 4 - Nest upper panel onto lower panel (12" lap). Hand crimp ribs of the overlap panel for tight nesting of the ribs.

STEP 5 - Install rivets in the middle of the line of tape sealant in each flat. Use "Bulb Tite" rivets (RV6605-9-6w) as shown above.

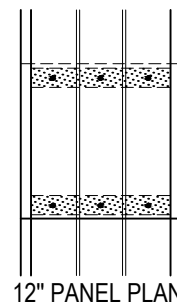
STEP 6 - Using the zipper tool, zip the panel seams at the panel lap immediately.

Install panel clips above & below lap as shown
Panel laps must be staggered 24" as shown.



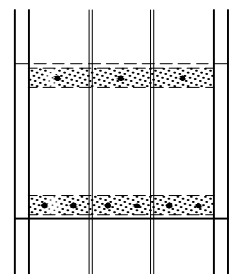
TYPICAL STAGGER

Utilize 6 bulb tite rivets (RV6605-9-6w) as shown for 12" wide panel.



12" PANEL PLAN

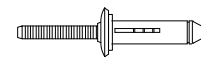
Utilize 9 bulb tite rivets (RV6605-9-6w) as shown for 16" wide panel.



16" PANEL PLAN

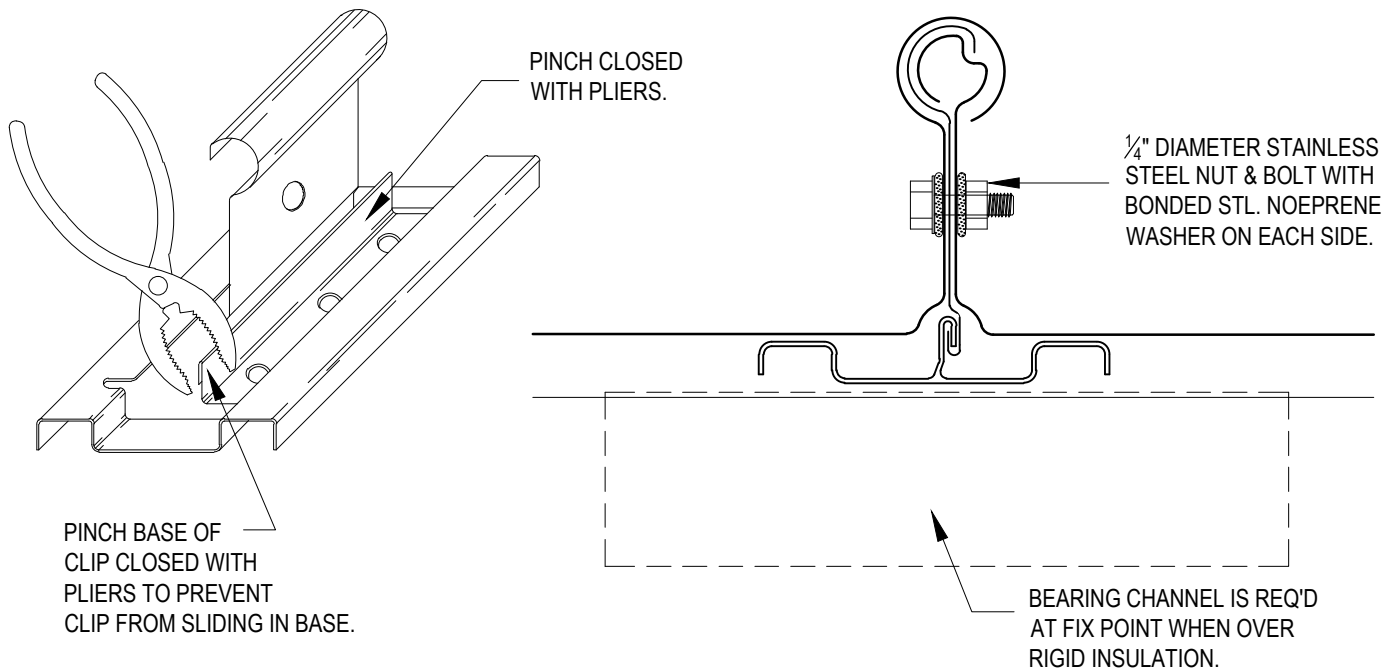
FASTENER SPACING

NOTE:
Bulb Tite rivets required a special application tool and is not supplied by Merchant & Evans, Inc.

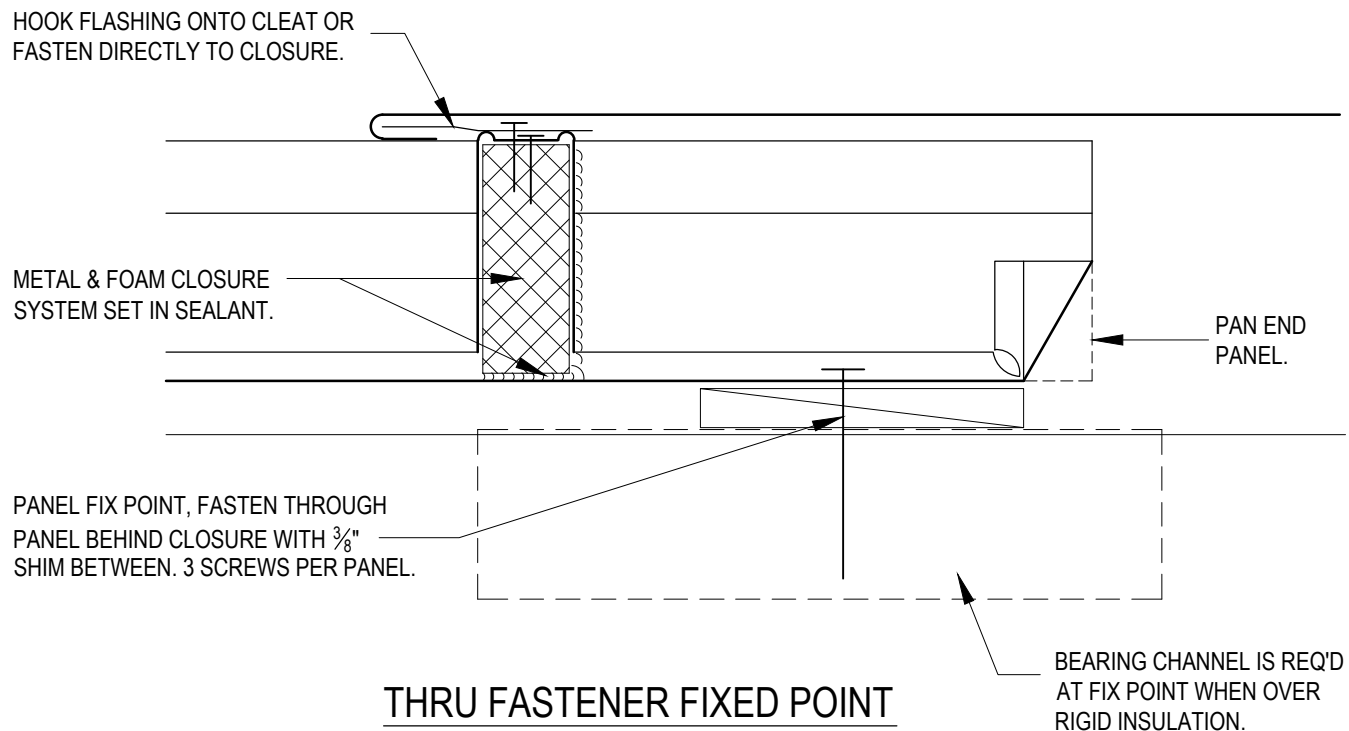


BULB-TITE RIVET RV6605-9-6-W

FIX POINTS DETAILS



#2080 FIXED CLIP



THRU FASTENER FIXED POINT

Updated December 2011

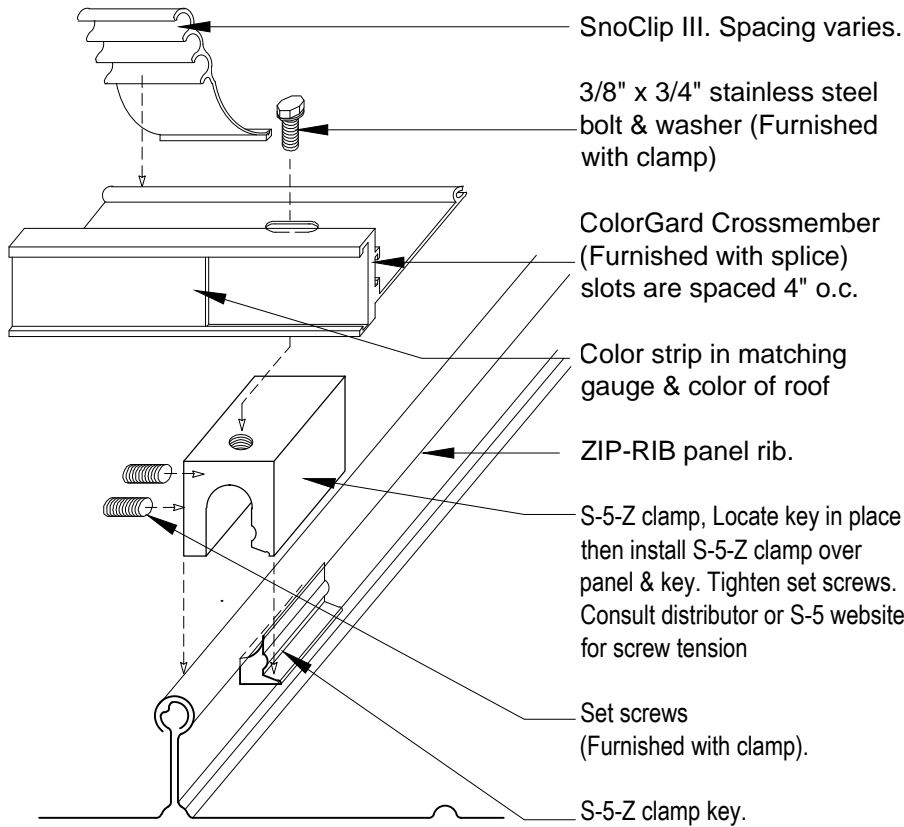
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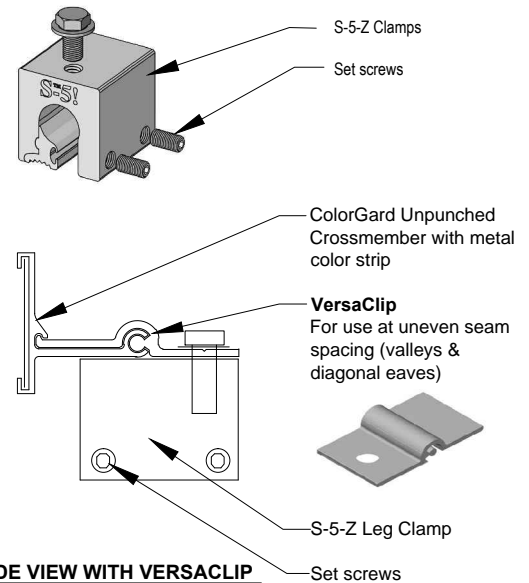
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S-5-Z COLORGARD SNOW RETENTION SYSTEM



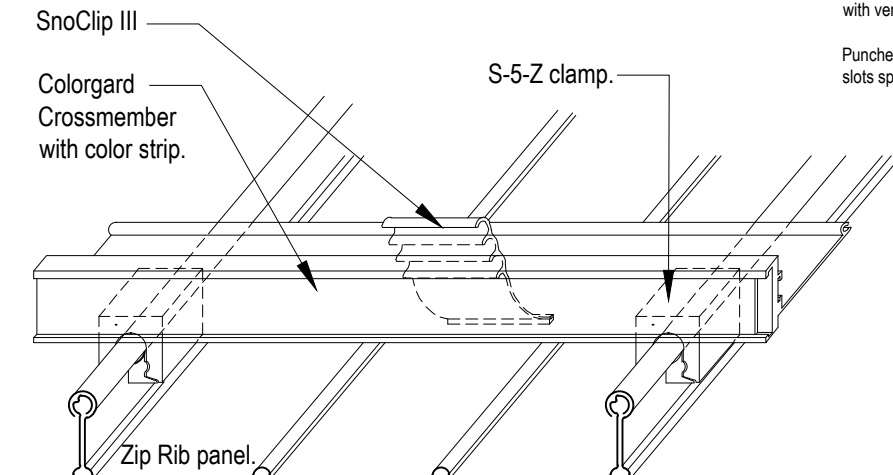
Snow retention system for use with the ZIP-RIB roof system. Mounts directly to the panel ribs with set screws eliminating through fastener attachments. Extremely high holding capacity used to prevent damage caused by sliding ice and snow.

Attach S-5-Z leg clamps to panel rib as specified with attached set screws. Cut ColorGard crossmember to size required and bolt to the leg clamps. Install the 2" color strip to match the roof and one SnoClip III at the center of each panel.



SIDE VIEW WITH VERSACLIP

S-5 clamp spacing is per each job requirement. Please contact supplier for proper spacing.



ColorGard Crossmember
8' lengths will accommodate a 2" wide pre-finished strip to match the roof system.

Use Unpunched Crossmember with versa clip for diagonal runs.

Punched Crossmember has slots spaced every 4".

Splice
Included with crossmember.

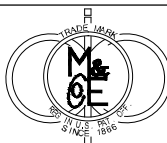
SnoClip III
Attached to ColorGard to prevent sliding of snow beneath the crossmember.

REFER TO PS-12 FOR MORE INFORMATION

Detail shown is standard and must be designed specific to a project.

Updated June 2014

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Alpine Pipe-Style Snow Guard System

Two Styles Available



#3000Z2K Clamp & Bracket



#4000Z2K Clamp & Bracket

Applications

Pipe-Style system for use with the ZIP-RIB roof panels. Mounts directly to the panel ribs with set screws eliminating through fastener attachments. Extremely high holding capacity used to prevent damage caused by sliding ice and snow.

Installation

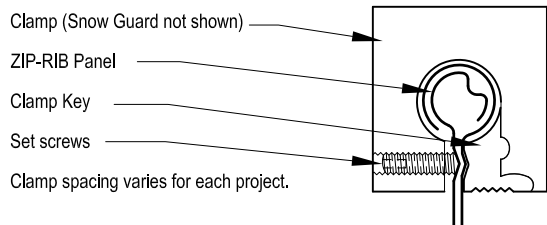
Attach #3000Z2K or #4000Z2K clamps with attached snow guard brackets to panel ribs with the attached set screws. Cut tubing to length required & insert into brackets. Install internal couplings as needed (external also available). Install end collars on each end of each pipe to secure tubing from sliding (maximum run of 100'). Install end caps. Install ice flags at the center of each panel. Go to www.alpinesnowguards.com for complete installation instructions.

Materials & Finish

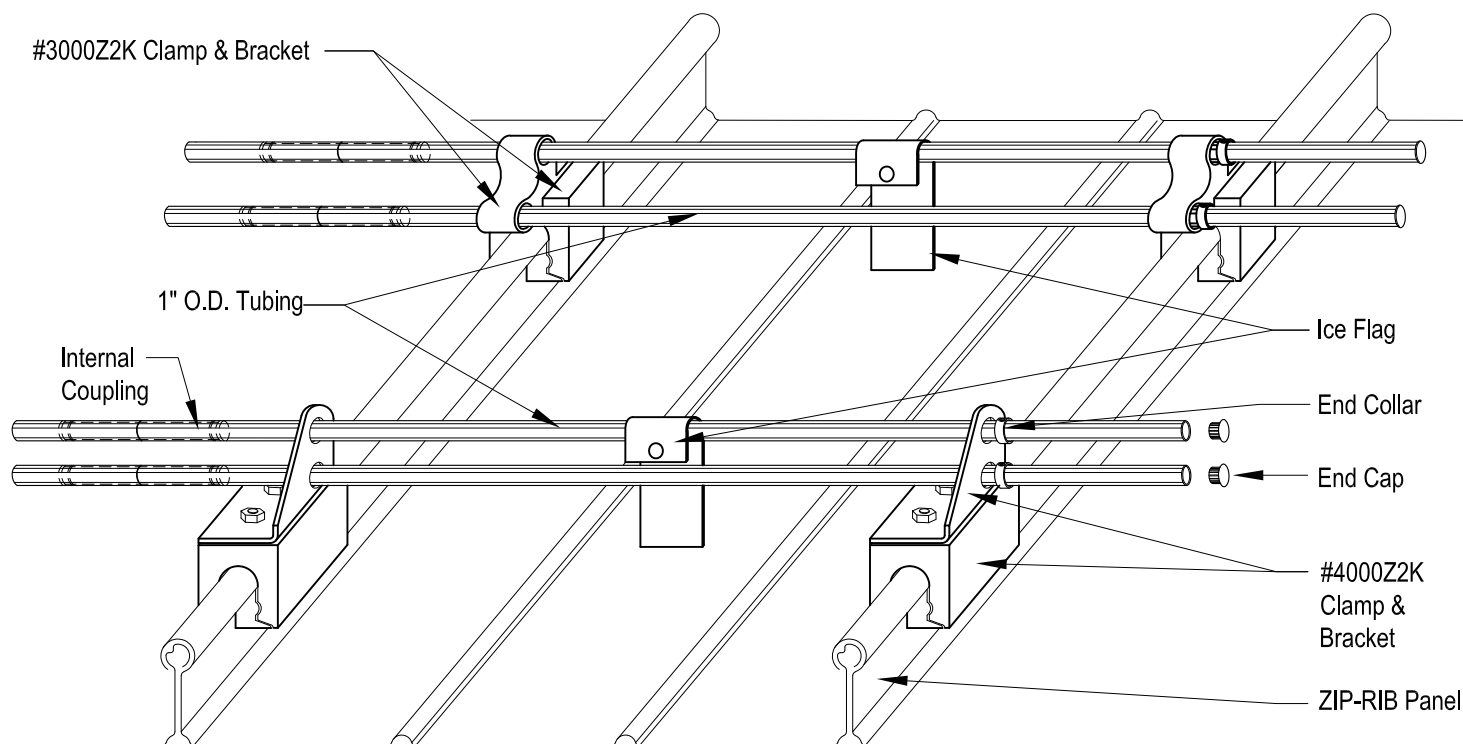
Clamps & Brackets - 6000 Series Aluminum End Caps - 304 Stainless Steel
Tubing, Couplings, End Collars & Ice Flags - Aluminum or Stainless Steel
Standard Finish is Mill Finish. Powder Coated available at additional cost.

Design & Engineering

Many variables are involved with snow design. The design professional should carefully review proper location, design strength and suitability to meet the needs of a specific project. Vulnerable areas subject to sliding snow & ice include penetrations, gutters, entrances, and other miscellaneous flashings. Contact Merchant & Evans or Alpine Snow Guards for ultimate snow guard holding capacity and Division 7 Specifications.



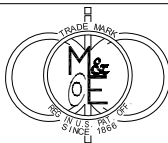
S5! Technology Clamp Attachment



Updated May 2013

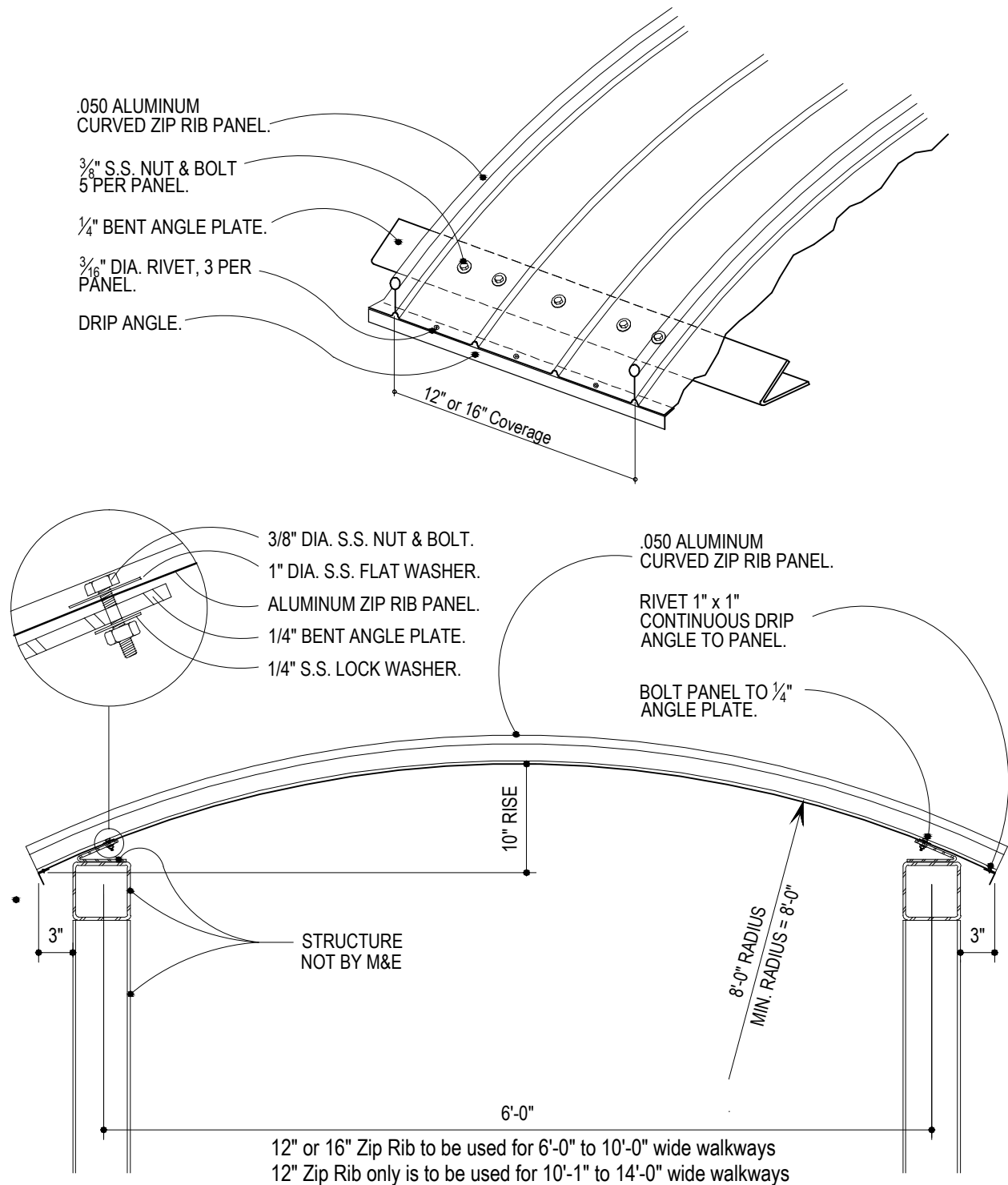
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FREE SPANNING CANOPY



NOTE: For spans over 6'-0": The rise to span ratio is 0.25 min. (Example: 10'-0" span = 2'-6" min. rise)

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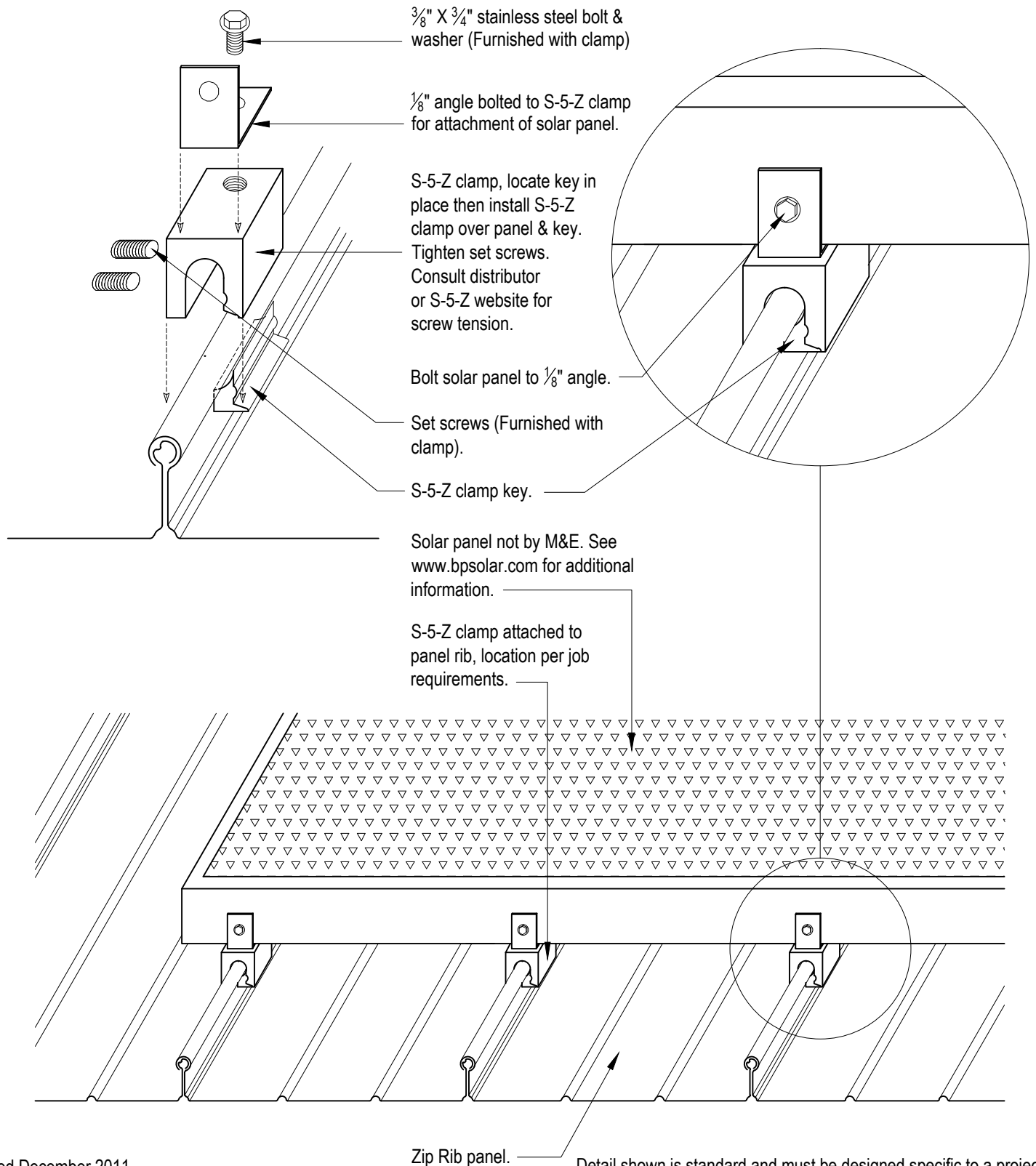
Detail shown is standard and must be designed specific to a project.

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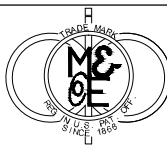
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Solar Panel attachment with S-5-Z clamp



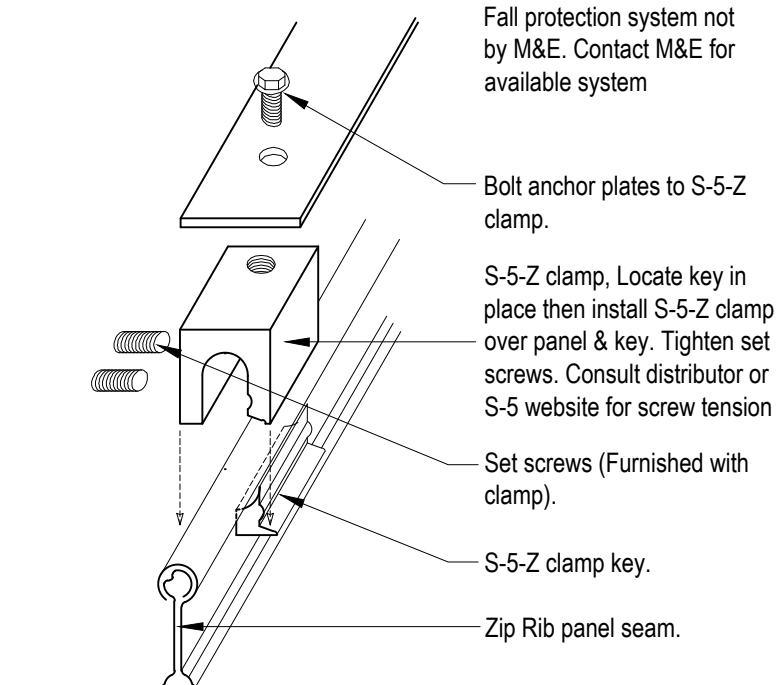
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Fall Protection System with S-5-Z clamp



Applications

Fall protection system for use with the ZIP-RIB roof system. Mounts directly to the panel ribs with set screws eliminating through fastener attachments.

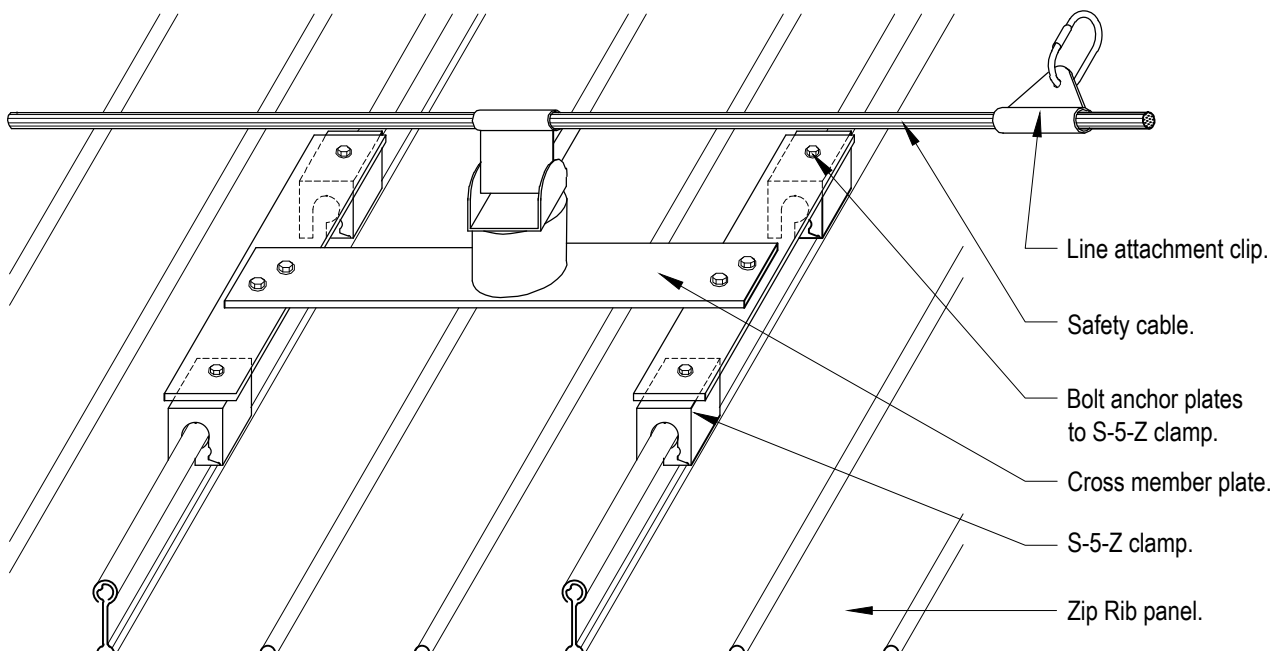
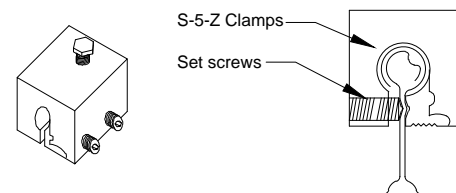
Other applications for the S-5-Z leg clamp include guy wires, snowguards, signs, rooftop walkways and solar panels.

Assembly

Attach S-5-Z leg clamps to panel ribs with attached set screws. Bolt fall protection system to S-5-Z leg clamps.

S-5-Z Leg Clamp

Aluminum block for use with ZIP-RIB panel system.



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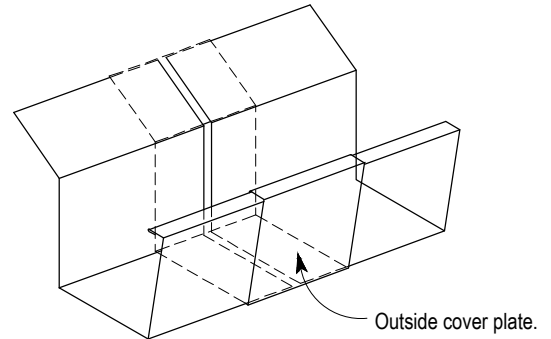
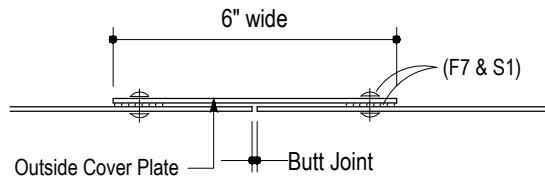
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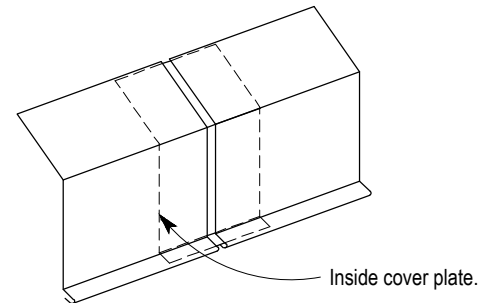
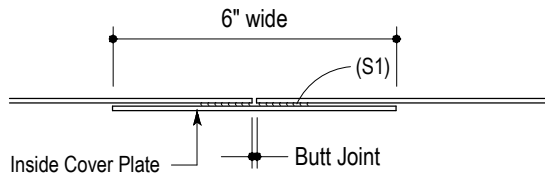
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FLASHING JOINTS

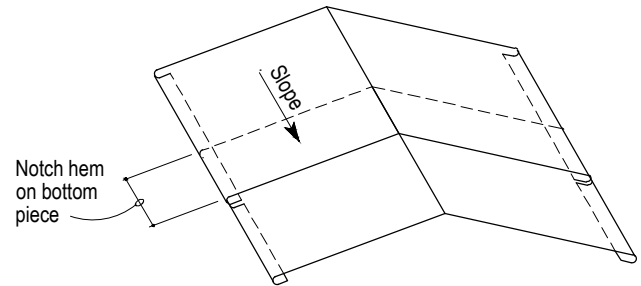
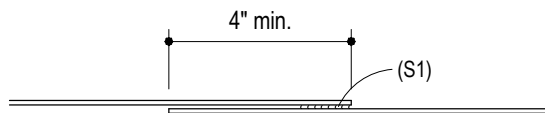
Outside cover plates are for horizontal flashings such as ridge, gutter & headwall, they are 6" wide. Fasten cover plate to each side of joint. Apply sealant 100% to each end of cover plate, where shown.



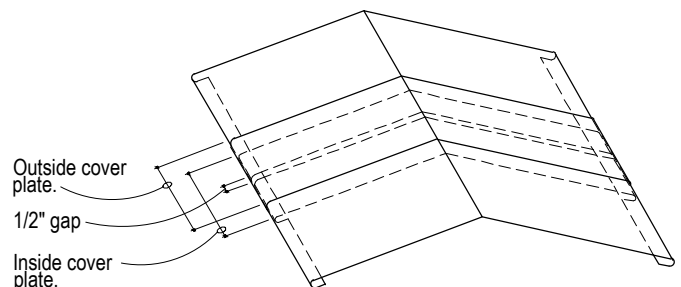
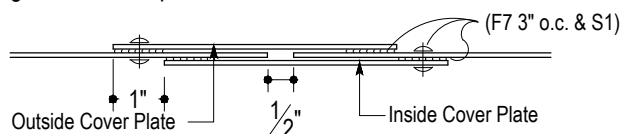
Inside cover plates are for vertical flashings such as fascias, they are 6" wide without the use of fasteners. Apply sealant 100% to each end of cover plate, where shown.



Lap joints are for sloped flashings. Lap are 4" long min. and 100% sealed. Do not fasten laps together. Laps should be shingled in direction of flow. Laps are not recommended for horizontal runs.



Flashing expansion joints are required to accommodate the liner thermal expansion and contraction that will occur with the change of temperature. Aluminum flashings exp.jts. are required every 30 feet and for steel flashings, install every 50 feet. Fasten and seal outside cover plate to one side of joint. Fasten and seal inside cover plate to the other side of the joint. Leave a 1/2" gap between flashing. Offset cover plates 1" for rivet clearance.



Updated December 2011

Detail shown is standard and must be designed specific to a project.