

HIP AND VALLEY

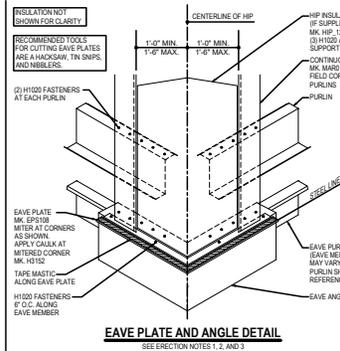
- EP3021 - LOC SEAM HIP - STD. CLIPS (FRAMING BY MBS)
 - EP3040 - LOC SEAM VALLEY - STD. CLIPS (FRAMING BY MBS)
 - EP3421 - LOC SEAM HIP - UTILITY CLIPS (FRAMING BY MBS)
 - EP3422 - LOC SEAM HIP - UTILITY CLIPS (SUB-STRUCTURE BY OTHERS)
 - EP3440 - LOC SEAM VALLEY - UTILITY CLIPS (FRAMING BY MBS)
 - EP3441 - LOC SEAM VALLEY - UTILITY CLIPS (SUB-STRUCTURE BY OTHERS)
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EP3021 - LOC SEAM HIP CONDITION - STD. CLIPS (FRAMING BY MBS)

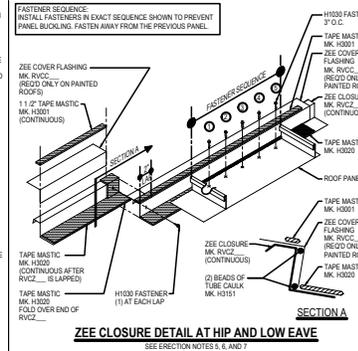
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HIP CONDITION ERECTION NOTES:

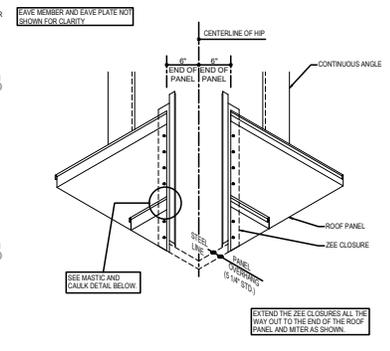
- 1) INSTALL THE EAVE PLATES AS SHOWN AT RIGHT. MITER CORNERS AND CAULK THE EAVE PLATES AT THE CORNER WITH H1512 TUBE CAULK.
- 2) AFTER THE INSTALLATION OF THE EAVE PLATES AND BEFORE ROOF PANEL INSTALLATION, START AT THE LOW EAVE AND RUN MALE RIB ANGLE ALONG BOTH SIDES OF THE HIP AS SHOWN IN EAVE PLATE AND ANGLE DETAIL. COPE THE VERTICAL LEG OF THE ANGLE AT EACH PURLIN LOCATION. FASTEN ANGLE TO PURLINS WITH (2) H1020 FASTENERS AT EACH PURLIN LOCATION.
- 3) IF THE INSULATION PAN (HP-120) IS SUPPLIED, INSTALL INSULATION PAN OVER PURLINS AND FASTEN AT EACH SUPPORT WITH (3) H1020 FASTENERS. DRAPE THE INSULATION OVER THE INSULATION PAN AND FASTEN WITH H1020 SCREWS AND H2000 INSULATION WASHERS. IF INSULATION PAN IS NOT SUPPLIED, DRAPE INSULATION OVER MALE RIB ANGLE AND FASTEN WITH H1020 SCREWS AND H2000 INSULATION WASHERS.
- 4) INSTALL THE ROOF PANELS. FIELD CUT THE PANELS AT THE REQUIRED ANGLE, 4° DOWN FROM THE HIP CENTERLINE. NOTE: KEEP SWINGS OUT OF THE SIDELAP. ON THE PANELS WILL NOT SEAM PROPERLY. APPLY 1" TAPE PAD AND 1" LONG BEAD OF CAULK ALONG THE MALE RIB, AS SHOWN IN DETAIL TO THE RIGHT OF THESE NOTES.
- 5) INSTALL THE ZEE CLOSURE. INSTALL ZEE CLOSURE COVER FLASH ONTO ZEE CLOSURE AT THIS TIME IF YOU HAVE A PAINTED ROOF.
- 6) APPLY 2 1/4" TAPE MASTIC (H2020) TO THE BOTTOM LEG OF THE ZEE CLOSURES. THEN PLACE THE VERTICAL LEG OF THE ZEE CLOSURE UP AGAINST THE END OF THE SKY CUT PANELS. FASTEN INTO THE ZEE WITH H1030 SCREWS (3" O.C.). INSPECT FOR RIB TIGHTNESS AND APPLY TUBE CAULK (H1010) AS REQUIRED.
- 7) APPLY 1 1/2" TAPE MASTIC (H3001) TO THE TOP LEG OF THE ZEE CLOSURE.
- 8) INSTALL THE HIP FLASH BY CENTERING IT OVER THE ZEE CLOSURES AND FASTEN WITH H1030 SCREWS AT 4" ON CENTER.
- 9) FIELD WORK THE HIP FLASH AS REQUIRED AT THE LOW EAVE OF THE HIP TO ENSURE WEATHERTIGHTNESS.



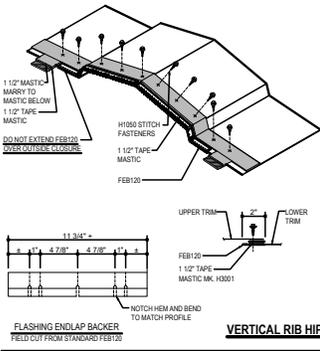
EAVE PLATE AND ANGLE DETAIL
SEE ERECTION NOTES 1, 2, AND 3



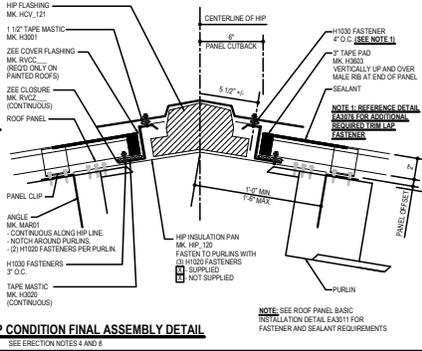
ZEE CLOSURE DETAIL AT HIP AND LOW EAVE
SEE ERECTION NOTES 5, 6, AND 7



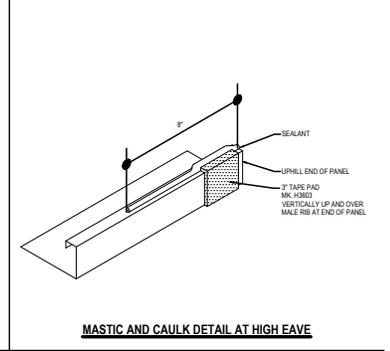
SECTION A
EXTEND THE ZEE CLOSURES ALL THE WAY OUT TO THE END OF THE ROOF PANEL AND MITER AS SHOWN.



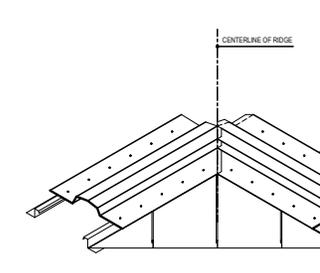
VERTICAL RIB HIP CONDITION FINAL ASSEMBLY DETAIL
SEE ERECTION NOTES 4 AND 8



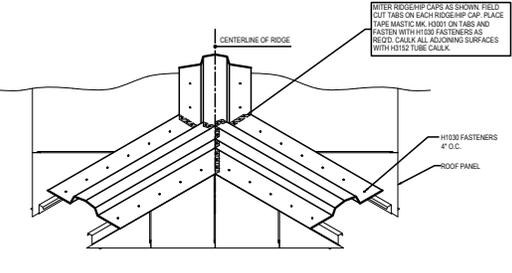
CORNER CAP DETAIL AT LOW EAVE
FIELD FABRICATE CORNER CAP FROM PLATSTOCK PROVIDED. SEE ERECTION NOTE 9



MASTIC AND CAULK DETAIL AT HIGH EAVE



SUGGESTED HIP FLASHING TRANSITION INTO THE RIDGE CAP



LOC SEAM HIP CONDITION - STD. CLIPS
FRAMING BY METAL BUILDING SUPPLER

EP3021

Detailer Notes:

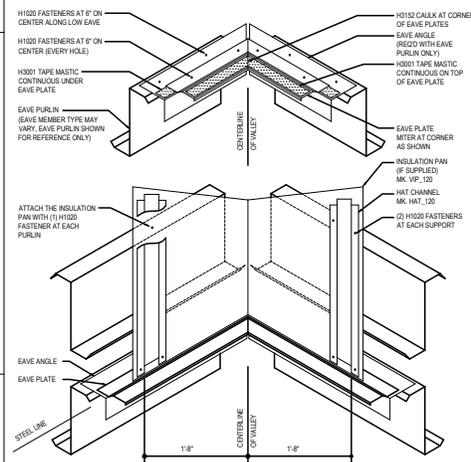
- 1) N/A

EP3040 - LOC SEAM VALLEY CONDITION - STD. CLIPS (FRAMING BY MBS)

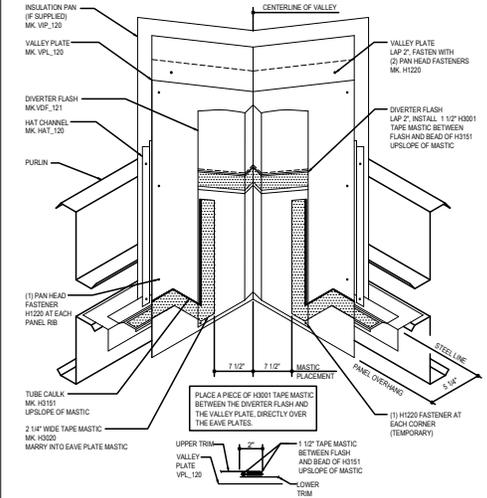
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VALLEY CONDITION ERECTION NOTES

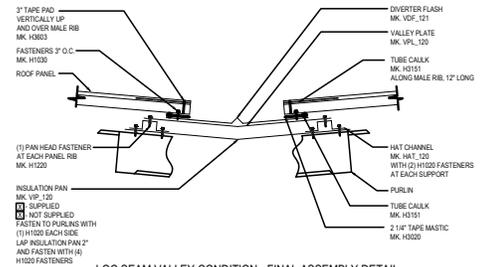
- 1) INSTALL THE EAVE ANGLES AND EAVE PLATES AS SHOWN AT RIGHT. CALK THE EAVE PLATES AT THE CORNER WITH H1152 TUBE CALK. REFERENCE BASIC INSTALLATION DETAIL FOR FURTHER GUIDANCE.
- 2) IF INSULATION PAN (IF SUPPLIED) IS NOT SUPPLIED, START AT THE LOW EAVE AND PLACE INSULATION PAN WITH (1) H1020 FASTENERS WITH (1) H1220 FASTENER AT EACH PURLIN. FIELD METER THE INSULATION PAN AT THE EAVE PLATE. LAP THE INSULATION PANS 2" AND FASTEN WITH (4) H1020 FASTENERS.
- 3) IF INSULATION PAN (IF SUPPLIED) IS NOT SUPPLIED, START AT THE LOW EAVE AND PLACE THE HAT CHANNEL SECTIONS (PART 2) ON BOTH SIDES OF THE VALLEY, 1/4" FROM THE CENTERLINE AS SHOWN. FASTEN TO EACH PURLIN WITH (2) H1020 FASTENERS. INSULATION WILL SIT BETWEEN THE INSULATION PAN AND THE HAT SECTIONS.
- 4) CENTER THE VALLEY PLATE OVER THE HAT SECTIONS. AT THE EAVE & RIDGE, EXTEND THE PLATE TO THE EDGE OF THE ROOF PANEL. FIELD CUTTING AS REQUIRED. FASTEN VALLEY PLATE TO HAT CHANNEL INSIDE PANEL RIB WITH (1) H1220 FASTENER AS SHOWN BELOW. LAP THE VALLEY PLATE 2" AND FASTEN WITH (2) H1220 FASTENERS.
- 5) PLACE THE DIVERTER FLASH OVER THE VALLEY PLATE AND TEMPORARILY FASTEN WITH (1) H1220 FASTENER AT THE OUTSIDE CORNERS OF THE DIVERTER FLASH. (DO NOT USE THE VALLEY AS A WALKWAY OR A WORK PLATFORM)
- 6) INSTALL 2 1/4" TAPE MASTIC (H3020) ON THE DIVERTER FLASH 1 1/2" FROM THE CENTER OF THE VALLEY AS SHOWN. DO NOT REMOVE PAPER BACKING UNITS. READY TO SET PANEL, ALSO APPLY A BEAD OF BUTYL TUBE CALK (H151) FOR THE FLAT OF THE PANEL UPSLOPE OF THE TAPE MASTIC.
- 7) INSTALL THE ROOF PANELS. CUTTING ENDS AT THE REQUIRED ANGLE. CUT PANELS 7" FROM THE CENTER OF THE VALLEY PLATE. (NOTE: KEEP METAL SHIMMERS OUT OF MASTIC AND CALK.) REMOVE TEMPORARY DIVERTER FASTENER IF NEEDED.
- 8) BEFORE THE NEXT PANEL IS INSTALLED, APPLY A 3" PIECE OF TAPE PAD (H3020) AND A BEAD OF TUBE CALK (H151) TO THE MALE SIDE OF THE PANEL FROM THE LOW END OF THE PANEL UP 12" TO ENSURE WEATHERTIGHTNESS, AS SHOWN IN THE SEALANT DETAIL.
- 9) FASTEN PANELS WITH H1020 FASTENERS, 3" O.C. OVER THE TAPE MASTIC, 8 1/4" FROM THE CENTER OF THE VALLEY FLASH TO THE CENTER OF THE MODULARITY.
- 10) FIELD WORK THE HIGH AND LOW ENDS OF THE VALLEY AS REQUIRED TO ENSURE WEATHERTIGHTNESS.



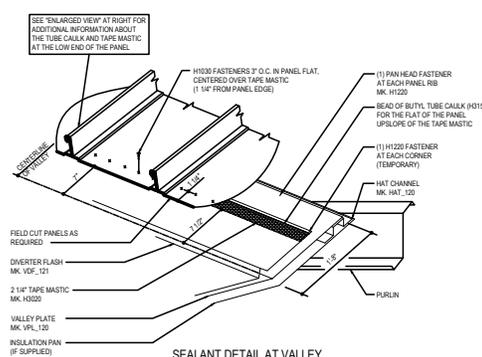
INSULATION PAN, EAVE PLATE, AND HAT CHANNEL DETAIL AT LOW EAVE CORNER



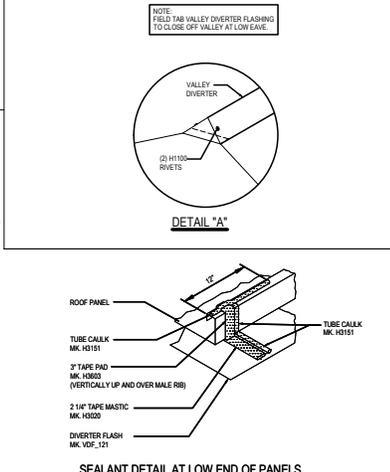
VALLEY PLATE AND DIVERTER FLASH DETAIL AT LOW EAVE CORNER



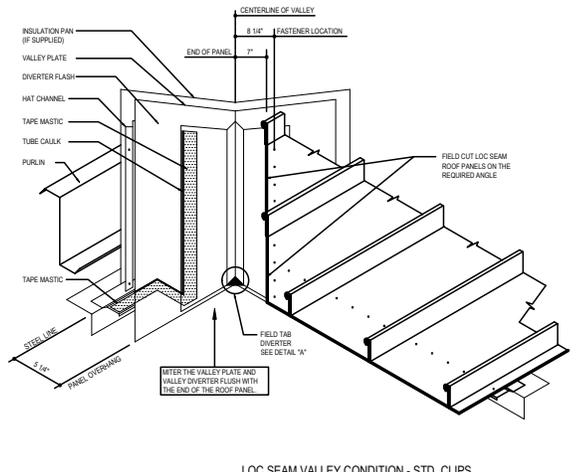
LOC SEAM VALLEY CONDITION - FINAL ASSEMBLY DETAIL



SEALANT DETAIL AT VALLEY



SEALANT DETAIL AT LOW END OF PANELS



LOC SEAM VALLEY CONDITION - STD. CLIPS

Detailer Notes:

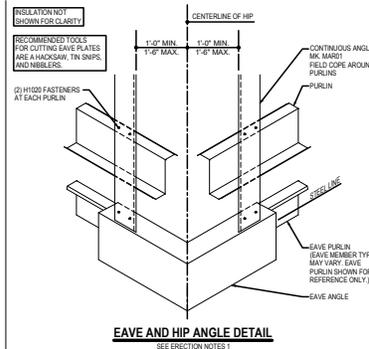
- 1) N/A

EP3421 - LOC SEAM HIP CONDITION - UTILITY CLIPS (FRAMING BY MBS)

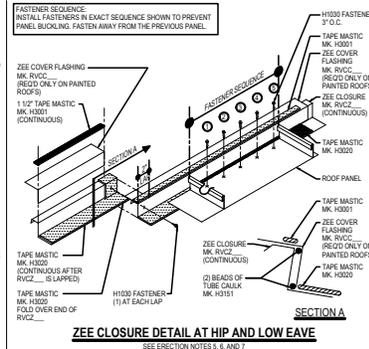
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HIP CONDITION ERECTION NOTES:

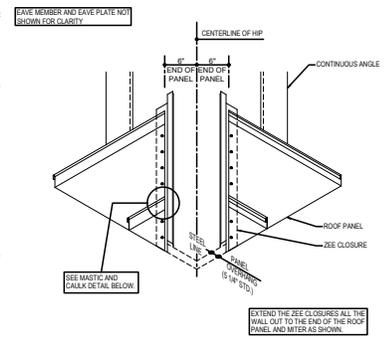
- BEFORE ROOF PANEL INSTALLATION, START AT THE LOW EAVE AND RUN N40R1 ANGLE ALONG BOTH SIDES OF THE HP AS SHOWN IN EAVE AND HIP ANGLE DETAIL. COPE THE VERTICAL LEG OF THE ANGLE AT EACH PURLIN LOCATION. FASTEN ANGLE TO PURLINS WITH (2) H1030 FASTENERS AT EACH PURLIN LOCATION.
- INSTALL THE ROOF PANELS. FIELD CUT THE PANELS AT THE REQUIRED ANGLE, 6" DOWN FROM THE HP CENTERLINE. (NOTE: KEEP SHAVINGS OUT OF THE SIDELAP, OR THE PANELS WILL NOT SEAM PROPERLY.) APPLY 3" TAPE PAD (H300) AND 1/2" LONG BEAD OF CALK (H101) ALONG THE MALE RIB AS SHOWN IN DETAIL TO THE RIGHT OF THESE NOTES.
- INSTALL THE ZEE CLOSURE (RV/CZ...). INSTALL ZEE CLOSURE COVER FLASH (RV/CZ...) ONTO ZEE CLOSURE AT THIS TIME IF YOU HAVE A PAINTED ROOF.
- APPLY 2 1/4" TAPE MASTIC (H302) TO THE BOTTOM LEG OF THE ZEE CLOSURES. THEN PLACE THE VERTICAL LEG OF THE ZEE CLOSURE UP AGAINST THE END OF THE SKEW CUT PANELS. FASTEN INTO THE ZEE WITH H1030 SCREWS (7" O.C.). INSPECT FOR WEATHERTIGHTNESS AND APPLY TUBE CALK (H101) AS REQUIRED.
- APPLY 1 1/2" TAPE MASTIC (H301) TO THE TOP LEG OF THE ZEE CLOSURE.
- INSTALL THE HIP FLASH BY CENTERING IT OVER THE ZEE CLOSURES AND FASTEN WITH H1030 SCREWS AT 4" ON CENTER.
- FIELD WORK THE HIP FLASH AS REQUIRED AT THE LOW EAVE OF THE HP TO ENSURE WEATHERTIGHTNESS.



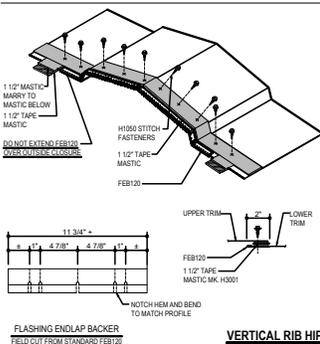
EAVE AND HIP ANGLE DETAIL
SEE ERECTION NOTES 1



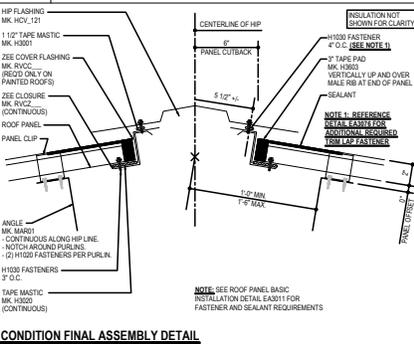
ZEE CLOSURE DETAIL AT HIP AND LOW EAVE
SEE ERECTION NOTES 5, 6, AND 7



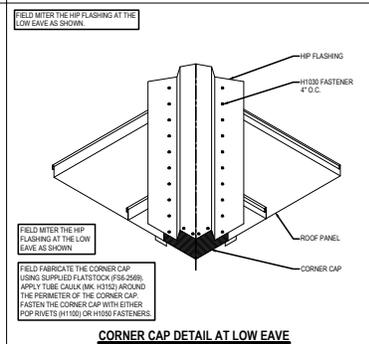
SECTION A
EXTEND THE ZEE CLOSURES ALL THE WAY OUT TO THE END OF THE ROOF PANEL AND MITER AS SHOWN.



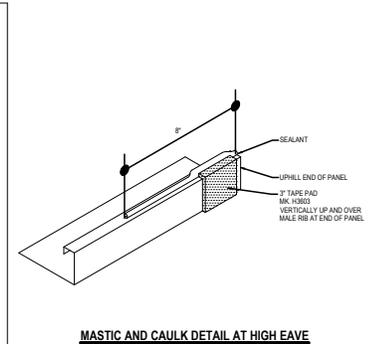
FLASHING ENLAP BACKER
FIELD CUT FROM STANDARD FEB120



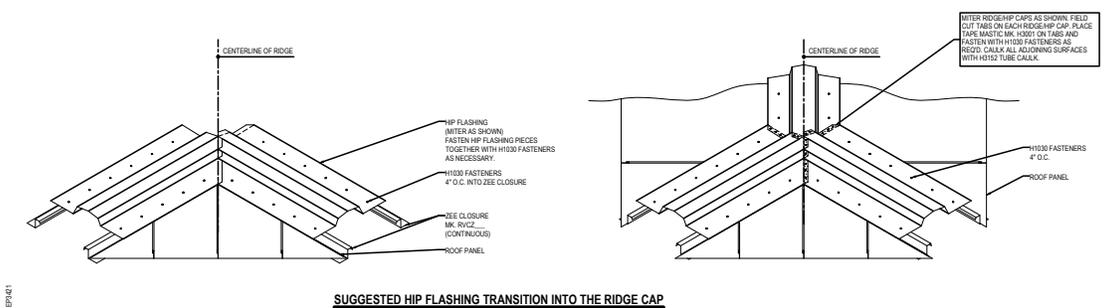
VERTICAL RIB HIP CONDITION FINAL ASSEMBLY DETAIL
SEE ERECTION NOTES 2 AND 6



CORNER CAP DETAIL AT LOW EAVE
FIELD FABRICATE CORNER CAP FROM FLATSTOCK PROVIDED. SEE ERECTION NOTE 7



MASTIC AND CALK DETAIL AT HIGH EAVE



SUGGESTED HIP FLASHING TRANSITION INTO THE RIDGE CAP

LOC SEAM HIP CONDITION - UTILITY CLIPS
FRAMING BY METAL BUILDING SUPPLER

EP3421

Detailer Notes:

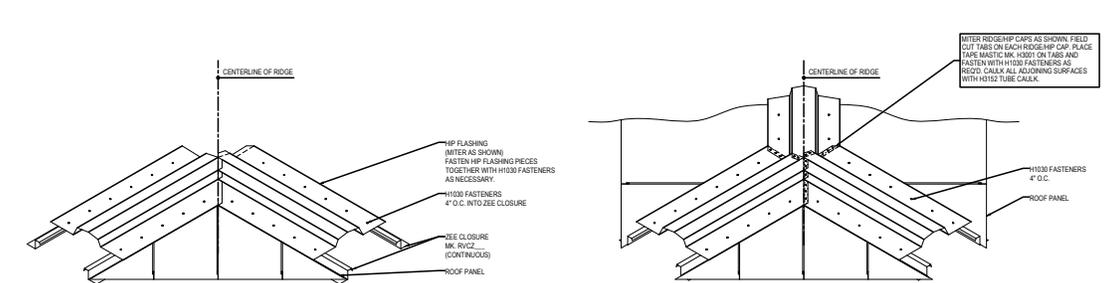
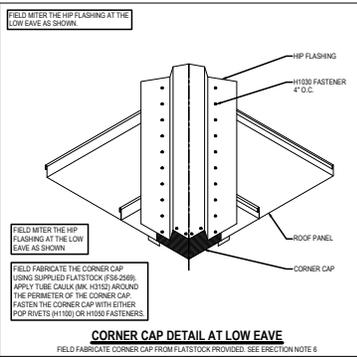
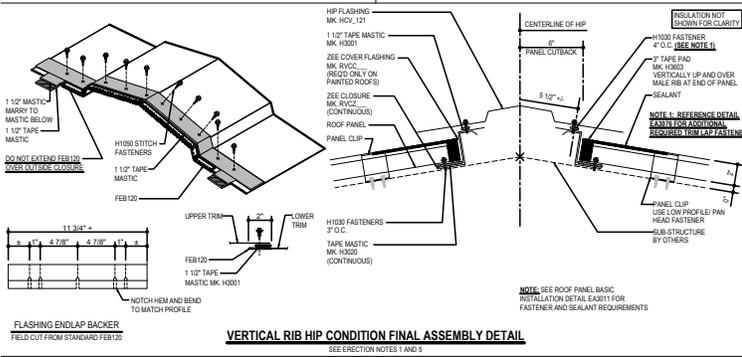
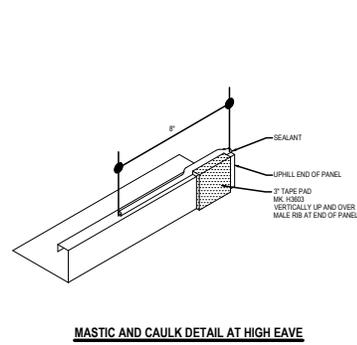
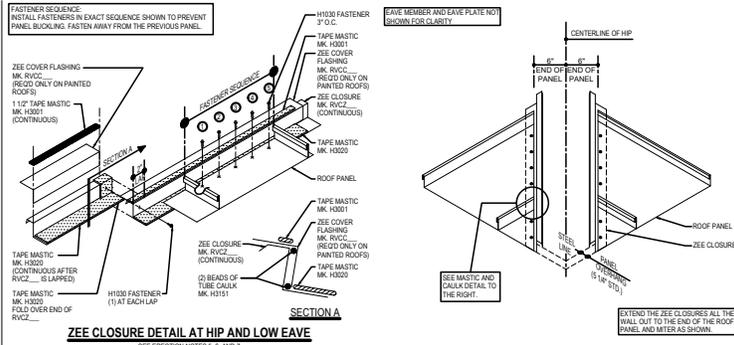
- N/A

EP3422 - LOC SEAM HIP CONDITION - UTILITY CLIPS (SUB-STRUCTURE BY OTHERS)

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HIP CONDITION ERECTION NOTES:

- 1) INSTALL THE ROOF PANELS FIELD CUT THE PANELS AT THE REQUIRED ANGLE 6° DOWN FROM THE HIP CENTERLINE. (NOTE: KEEP SHAVINGS OUT OF THE SIDELAP. OR THE PANELS WILL NOT SEAM PROPERLY). APPLY 3" TAPE PAD (H0503) AND 1" LONG BEAD OF CAULK (H151) ALONG THE MALE RIB. AS SHOWN IN DETAIL TO THE RIGHT OF THESE NOTES.
- 2) INSTALL THE ZEE CLOSURE (RV/CZ...), INSTALL ZEE CLOSURE COVER FLASH (RV/CZ...) ONTO ZEE CLOSURE AT THIS TIME IF YOU HAVE A PAINTED ROOF.
- 3) APPLY 2 1/2" TAPE MASTIC (H020) TO THE BOTTOM LEG OF THE ZEE CLOSURES. THEN PLACE THE VERTICAL LEG OF THE ZEE CLOSURE UP AGAINST THE END OF THE SKEW CUT PANELS. FASTEN INTO THE ZEE WITH H1030 SCREWS (3" O.C.). INSPECT FOR WEATHERTIGHTNESS AND APPLY TUBE CAULK (H151) AS REQUIRED.
- 4) APPLY 1 1/2" TAPE MASTIC (H001) TO THE TOP LEG OF THE ZEE CLOSURE.
- 5) INSTALL THE HIP FLASH BY CENTERING IT OVER THE ZEE CLOSURES AND FASTEN WITH H1030 SCREWS AT 4" ON CENTER.
- 6) FIELD WORK THE HIP FLASH AS REQUIRED AT THE LOW EAIVE OF THE HIP TO ENSURE WEATHERTIGHTNESS.



LOC SEAM HIP CONDITION - UTILITY CLIPS
SUB-STRUCTURE BY OTHERS
EP3422

Detailer Notes:

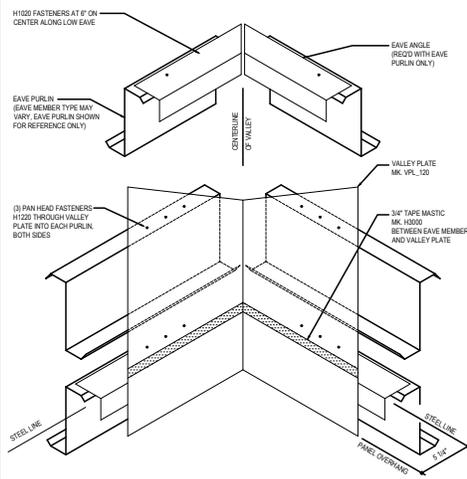
- 1) N/A

EP3440 - LOC SEAM VALLEY CONDITION - UTILITY CLIPS (FRAMING BY MBS)

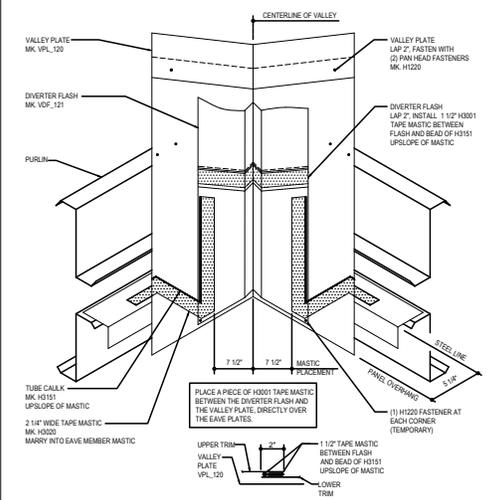
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VALLEY CONDITION ERECTION NOTES

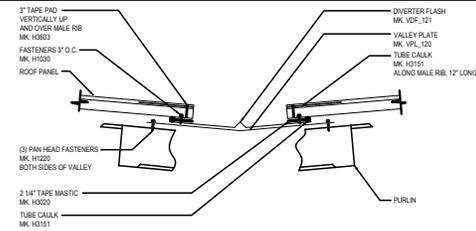
- BEFORE THE ROOF PANEL INSTALLATION, START AT THE LOW EAVE AND CENTER THE VALLEY PLATE IN THE VALLEY. EXTEND THE PLATE TO THE EDGE OF THE ROOF PANEL. FIELD CUTTING IS REQUIRED. FASTEN VALLEY PLATE WITH (2) H1225 FASTENERS AT EACH PURLIN ON BOTH SIDES OF VALLEY. LAP THE VALLEY PLATES 2" AND FASTEN WITH (2) H1225 FASTENERS.
- PLACE THE DIVERTER FLASH OVER THE VALLEY PLATE AND TEMPORARILY FASTEN WITH (1) H1225 FASTENERS AT THE OUTSIDE CORNERS OF THE DIVERTER FLASH. **DO NOT** USE THE VALLEY AS A WALKWAY OR A WORK PLATFORM.
- INSTALL 2 1/4" TAPE MASTIC MK H2020 ON THE DIVERTER FLASH 1 1/2" FROM THE CENTER OF THE VALLEY AS SHOWN. DO NOT REMOVE PAPER BACKING UNTIL READY TO SET PANEL. ALSO APPLY A BEAD OF BUTYL TUBE CAULK MK H0151 FOR THE FLAT OF THE PANEL UPSLOPE OF THE TAPE MASTIC.
- INSTALL THE ROOF PANELS - CUTTING ENDS AT THE REQUIRED ANGLE. CUT PANELS 7" FROM THE CENTER OF THE VALLEY PLATE. (NOTE: KEEP METAL SHAVINGS OUT OF MASTIC AND CAULK).
- BEFORE THE NEXT PANEL IS INSTALLED, APPLY A 3" PIECE OF TAPE PAD MK H0203 AND A BEAD OF TUBE CAULK MK H0151 TO THE MALE SIDE OF THE PANEL FROM THE LOW END OF THE PANEL UP 12" TO ENSURE WEATHERTIGHTNESS AS SHOWN IN THE SEALANT DETAIL.
- FASTEN PANELS WITH H1220 FASTENERS, 3" O.C. OVER THE TAPE MASTIC. (8 1/4" FROM THE CENTER OF THE DIVERTER FLASH TO THE CENTER OF THE FASTENERS). TAKE SPECIAL CARE AT THIS POINT TO MAINTAIN PANEL MODULARITY.
- FIELD WORK THE HIGH AND LOW ENDS OF THE VALLEY AS REQUIRED TO ENSURE WEATHERTIGHTNESS.



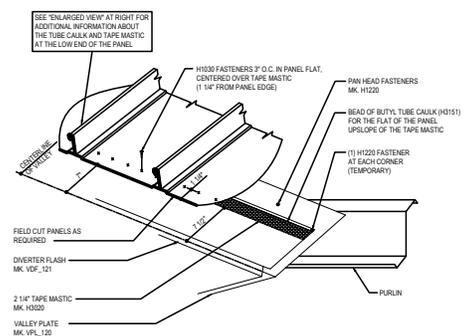
VALLEY PLATE DETAIL AT LOW EAVE CORNER
SEE ERECTION NOTE 1



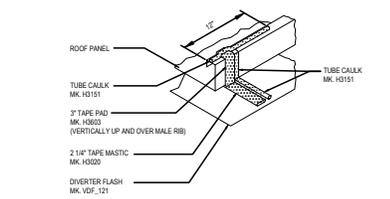
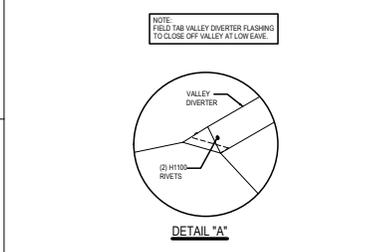
VALLEY PLATE AND DIVERTER FLASH DETAIL AT LOW EAVE CORNER
SEE ERECTION NOTES 1, 2 AND 3



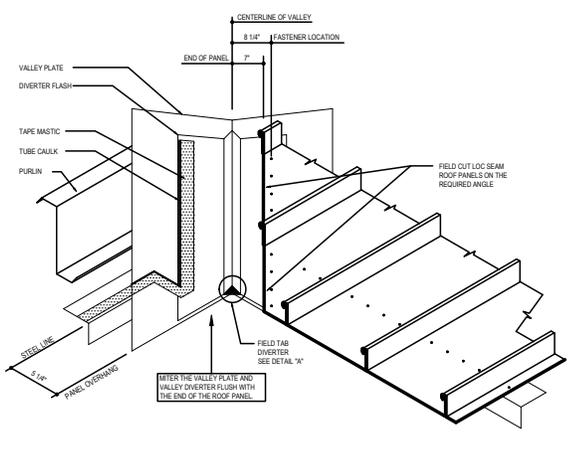
LOC SEAM VALLEY CONDITION - FINAL ASSEMBLY DETAIL



SEALANT DETAIL AT VALLEY
SEE ERECTION NOTES 2, 3, 4 AND 6



SEALANT DETAIL AT LOW END OF PANELS
SEE ERECTION NOTE 5



LOC SEAM VALLEY CONDITION - UTILITY CLIPS
FRAMING BY METAL BUILDING SUPPLIER

EP3440

Detailer Notes:

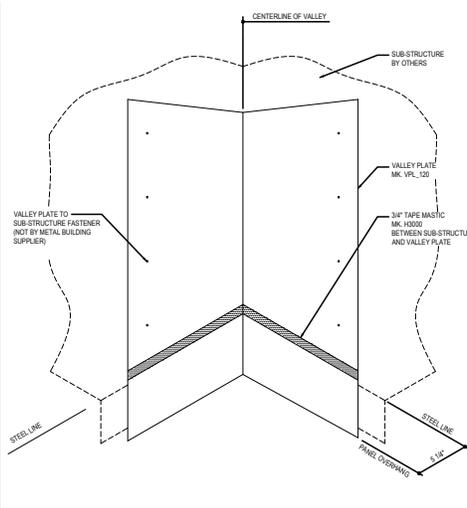
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EP3441 - LOC SEAM VALLEY CONDITION - UTILITY CLIPS (SUB-STRUCTURE BY OTHERS)

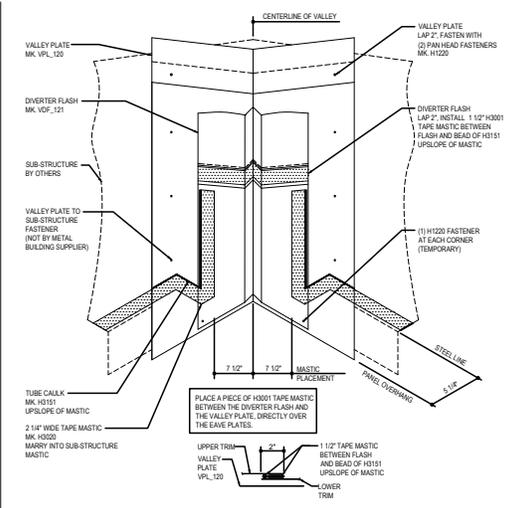
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VALLEY CONDITION ERECTION NOTES

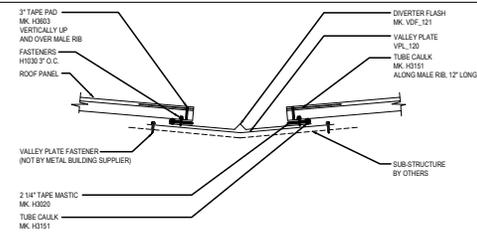
- 1) AFTER THE INSTALLATION OF THE SUB-STRUCTURE BY OTHERS AND BEFORE THE ROOF PANEL INSTALLATION, START AT THE LOW EAVE AND CENTER THE VALLEY PLATE IN THE VALLEY. EXTEND THE PLATE TO THE EDGE OF THE ROOF PANEL. FIELD CUTTING AS REQUIRED. FASTENERS FOR VALLEY PLATE TO SUB-STRUCTURE BY OTHERS: LAP THE VALLEY PLATES 2" AND FASTEN WITH (1) H1220 FASTENERS.
- 2) PLACE THE DIVERTER FLASH OVER THE VALLEY PLATE AND TEMPORARILY FASTEN WITH (1) H1220 FASTENER AT THE OUTSIDE CORNERS OF THE DIVERTER FLASH. **DO NOT** USE THE VALLEY AS A WALKWAY OR A WORK PLATFORMS.)
- 3) INSTALL 2 1/4" TAPE MASTIC (H3020) ON THE DIVERTER FLASH 7 1/2" FROM THE CENTER OF THE VALLEY AS SHOWN. DO NOT REMOVE PAPER BACKING UNITS, READY TO SET PANEL. ALSO APPLY A BEAD OF BUTYL TUBE CAULK (H0151) FOR THE FLAT OF THE PANEL UPSLOPE OF THE TAPE MASTIC.
- 4) INSTALL THE ROOF PANELS. CUTTING ENDS AT THE REQUIRED ANGLE. CUT PANELS 7" FROM THE CENTER OF THE VALLEY PLATE. (NOTE: KEEP METAL SHAVINGS OUT OF MASTIC AND CAULK.)
- 5) BEFORE THE NEXT PANEL IS INSTALLED, APPLY A 3" PIECE OF TAPE PAD (H0623) AND A BEAD OF TUBE CAULK (H0151) TO THE MALE SIDE OF THE PANEL, FROM THE LOW END OF THE PANEL UP 12" TO ENSURE WEATHERTIGHTNESS, AS SHOWN IN THE SEALANT DETAIL.
- 6) FASTEN PANELS WITH H1030 FASTENERS, 3" O.C. OVER THE TAPE MASTIC. (8 1/4" FROM THE CENTER OF THE DIVERTER FLASH TO THE CENTER OF THE FASTENERS). TAKE SPECIAL CARE AT THIS POINT TO MAINTAIN PANEL MODULARITY.
- 7) FIELD WORK THE HIGH AND LOW ENDS OF THE VALLEY AS REQUIRED TO ENSURE WEATHERTIGHTNESS.



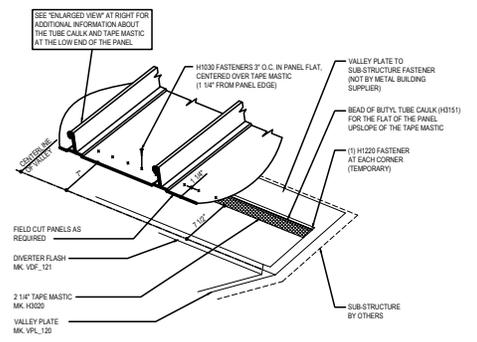
VALLEY PLATE DETAIL AT LOW EAVE CORNER
SEE ERECTION NOTE 1



VALLEY PLATE AND DIVERTER FLASH DETAIL AT LOW EAVE CORNER
SEE ERECTION NOTES 1, 2 AND 3

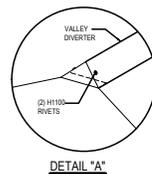


LOC SEAM VALLEY CONDITION - FINAL ASSEMBLY DETAIL

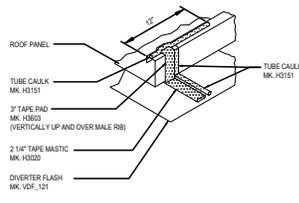


SEALANT DETAIL AT VALLEY
SEE ERECTION NOTES 2, 3, 4 AND 6

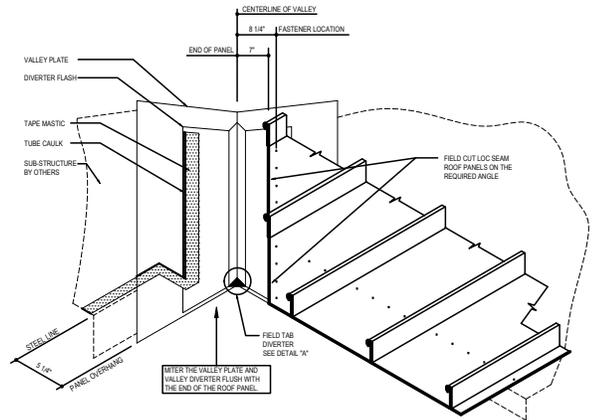
NOTE: FIELD TAB VALLEY DIVERTER FLASHING TO LOC SEAM VALLEY AT LOW EAVE.



DETAIL 'A'



SEALANT DETAIL AT LOW END OF PANELS
SEE ERECTION NOTE 5



LOC SEAM VALLEY CONDITION - UTILITY CLIPS
SUB-STRUCTURE BY OTHERS

EP3441

Detailer Notes:

- 1) N/A