



REFRIGERATION REVIEW

Continuity of Vapor Barrier

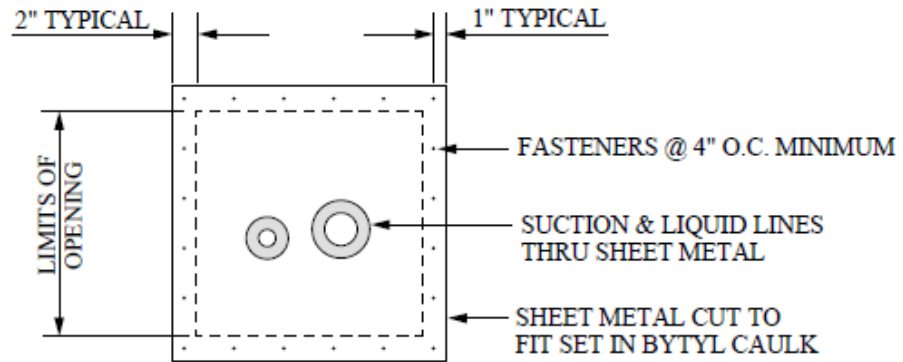
One of the most misunderstood practices in our industry is how to provide continuity of the vapor barrier for pipe passing through insulated wall IMPs and roof systems.

Any time you have a temperature difference greater than 10° on either side of a wall, continuity of the vapor barrier needs to be provided. Quite often a pipe insulator thinks he's doing a better job by passing the insulation uninterrupted through a wall or roof system. The fallacy in that is that the slight voids between the insulation and piping will continue to pass air and water vapor into the colder space.

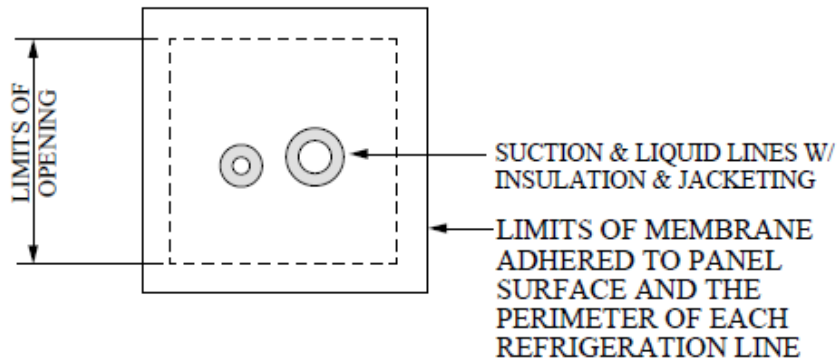
We have shown details from our standard specification that show the classic way to keep continuity of vapor barrier for walls and roofs. Also shown is a specific example of how to modify a piping system using Armaflex to provide the proper vapor barrier.



Roof Penetration

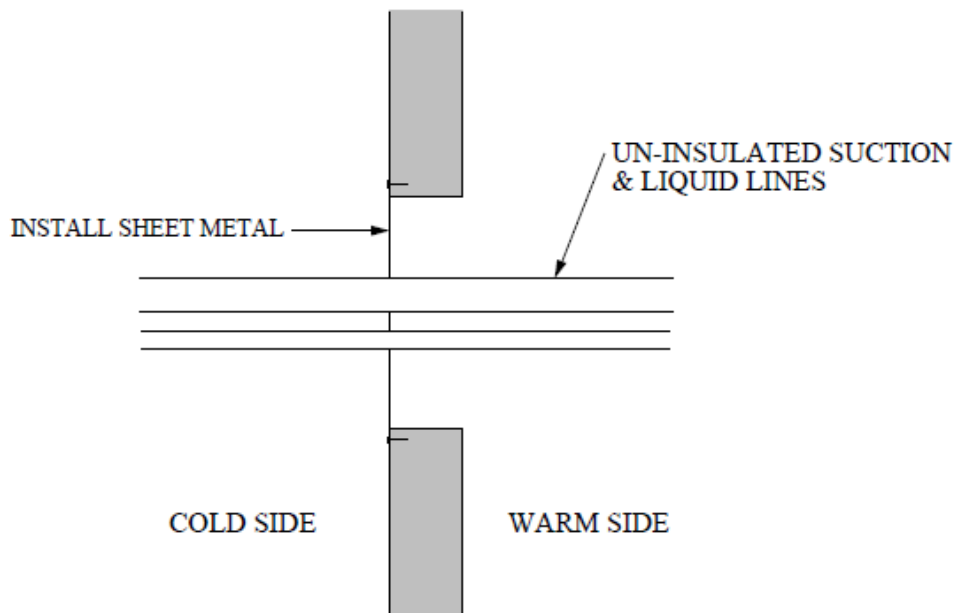


FREEZER (COLD) SIDE
 (ASSEMBLED, SEE STEPS ONE THRU SIX)

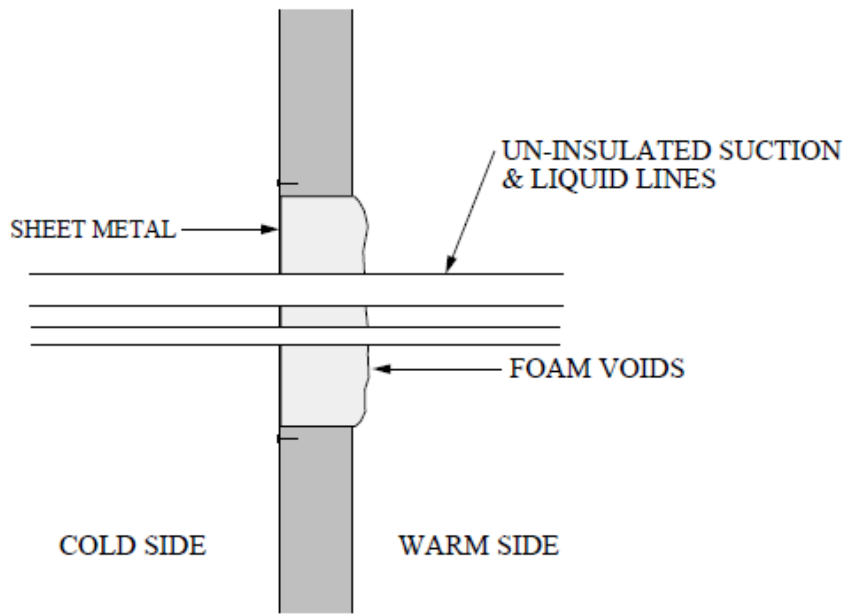


EXTERIOR (WARM) SIDE
 (ASSEMBLED, SEE STEPS ONE THRU SIX)

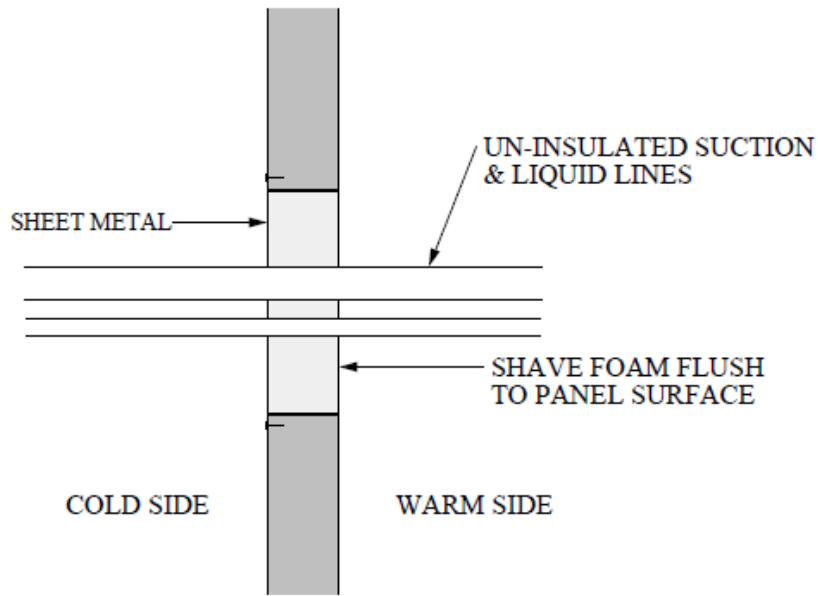
WALL PENETRATION DETAIL
 SCALE : 1" = 1'-0"



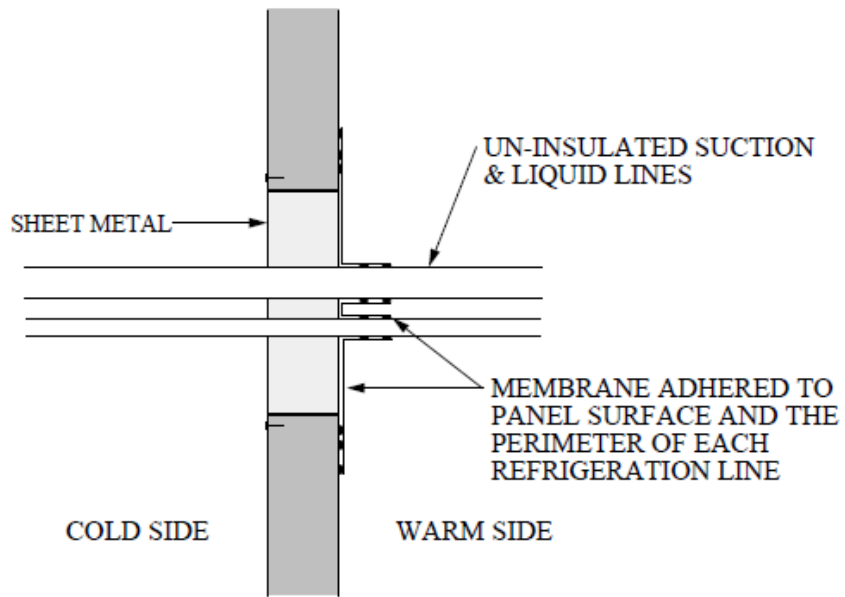
STEP ONE



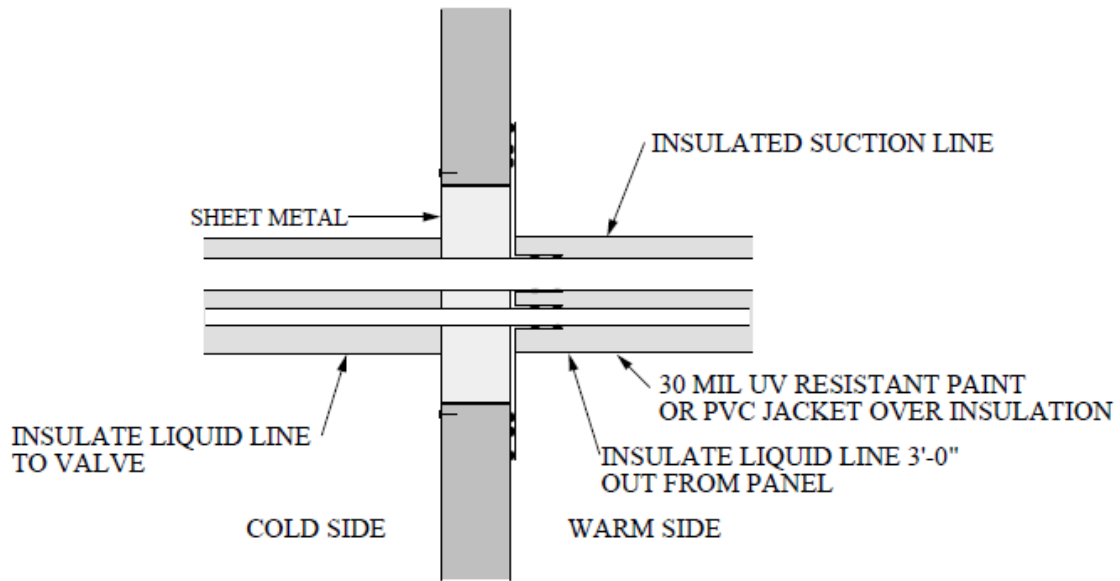
STEP TWO



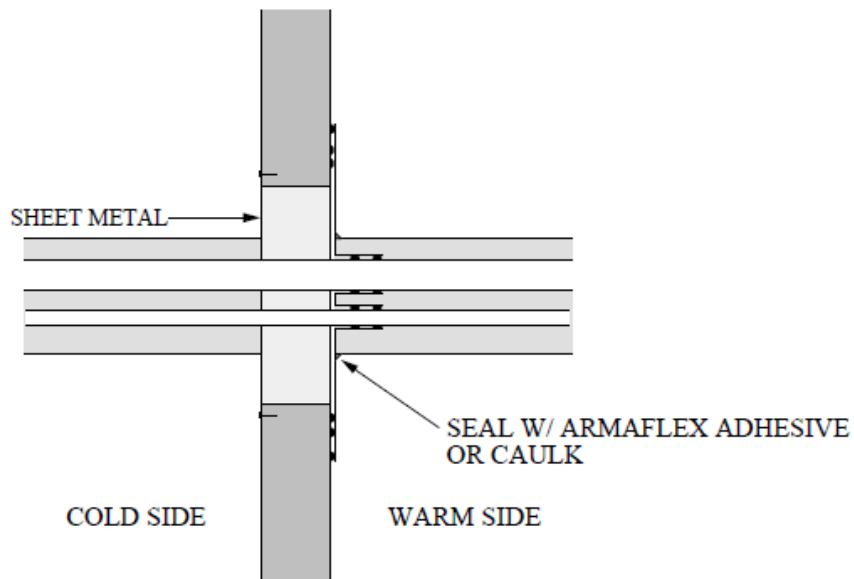
STEP THREE



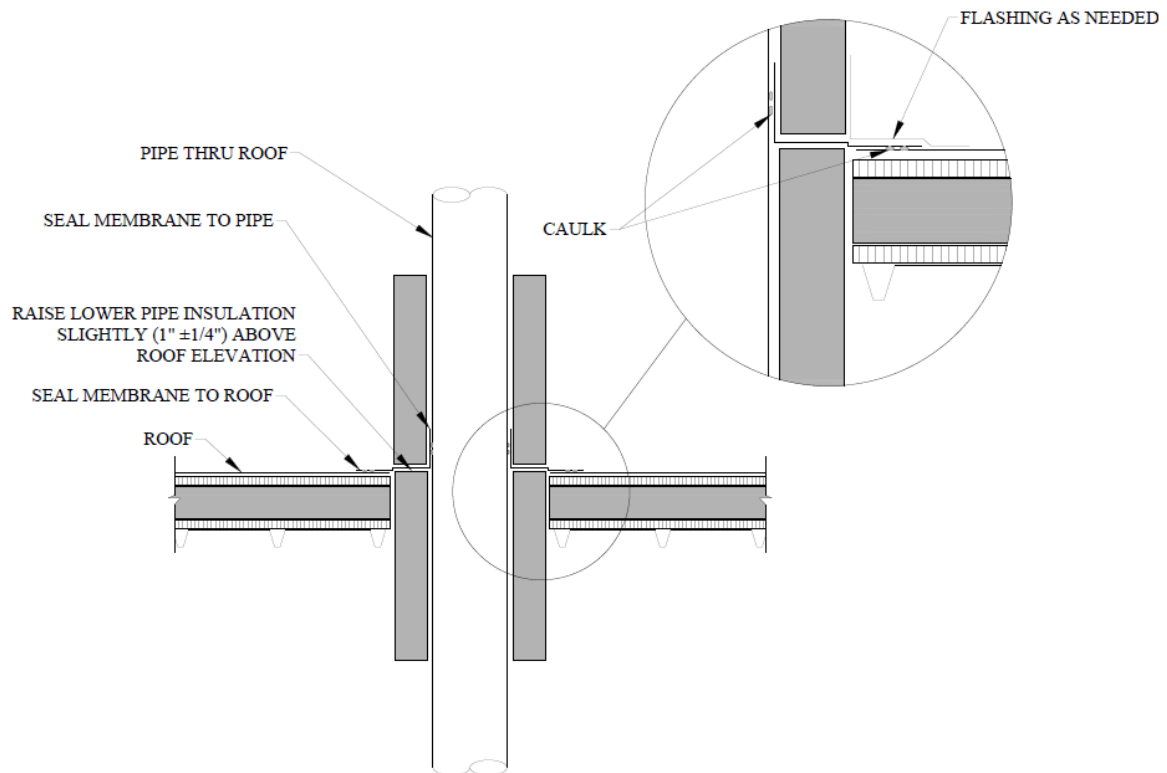
STEP FOUR



STEP FIVE



STEP SIX

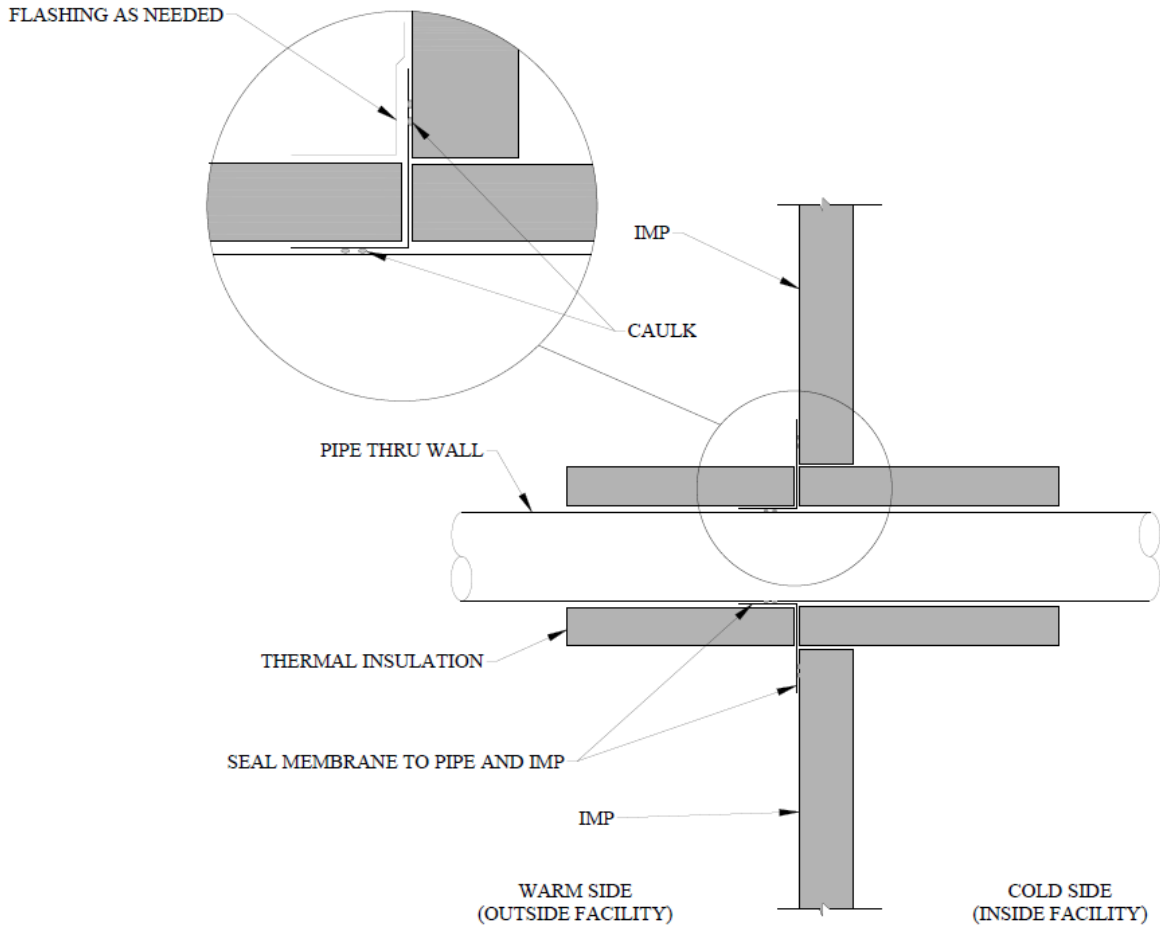


SECTION
SCALE: NONE

ROOF INSULATED PIPE PENETRATION DETAIL

NOTES:

1. VERIFY ROOF PENETRATION SEAL METHOD WITH ENGINEER FOR DIFFERENT TYPES OF ROOFING SYSTEMS.
2. SINGLE MEMBRANE CAN BE EPDM .45 MIL. TPO OR OTHER BUILT-UP ROOF APPROVED UV RATED MATERIAL



WALL PIPE PENETRATION AT
INSULATED WALL PANEL DETAIL
 SCALE: NONE