



TECHNICAL BULLETIN

OVERVIEW:

When Earth Loop line sets are brought inside the building, either through a basement wall, slab floor, or crawl space, the vapor and liquid lines must be separated, insulated, and brought inside through separate PVC pipes as shown in the illustration on page 3. It is critical during this installation process to seal around the outside of the PVC pipes; then foam and seal around the insulated refrigerant lines inside of the PVC pipes.

Regarding the seal around the outside of the PVC building entry pipe, it has been determined that some silicone-based sealants outgas ammonia, which is corrosive to copper, and there is a remote potential for this sealant to come into contact with bare copper during the installation process. To avoid this, ETI has taken the following corrective actions.

ACTIONS BY ETI:

To seal around the outside of the PVC pipes, ETI specifies the use of one of the following non-silicone sealants:

- Loctite POLYSEAMSEAL Caulk and All Purpose Adhesive Caulk
- DAP DYNAFLEX 230 Premium Interior/Exterior Latex Sealant
- 3M Polyurethane Construction Sealant 525
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To foam and seal around the insulated refrigerant lines inside the PVC pipes, ETI continues to recommend using the following foam/sealant:

- Dow Insulating Foam Sealant (“Great Stuff”, #7498500154)

In addition, the ETI Earth Loop Installation Manual (EL-SIS) is currently being revised, consistent with this bulletin.

ACTIONS BY INSTALLERS AND SERVICE TECHNICIANS:

Immediately discontinue using all silicone-based sealants to seal around the outside of the PVC building entry pipes. This includes DAP Silicone Ultra, #7079811646.

Begin applying one of the three recommended sealants to seal around the outside of the PVC building entry pipes:

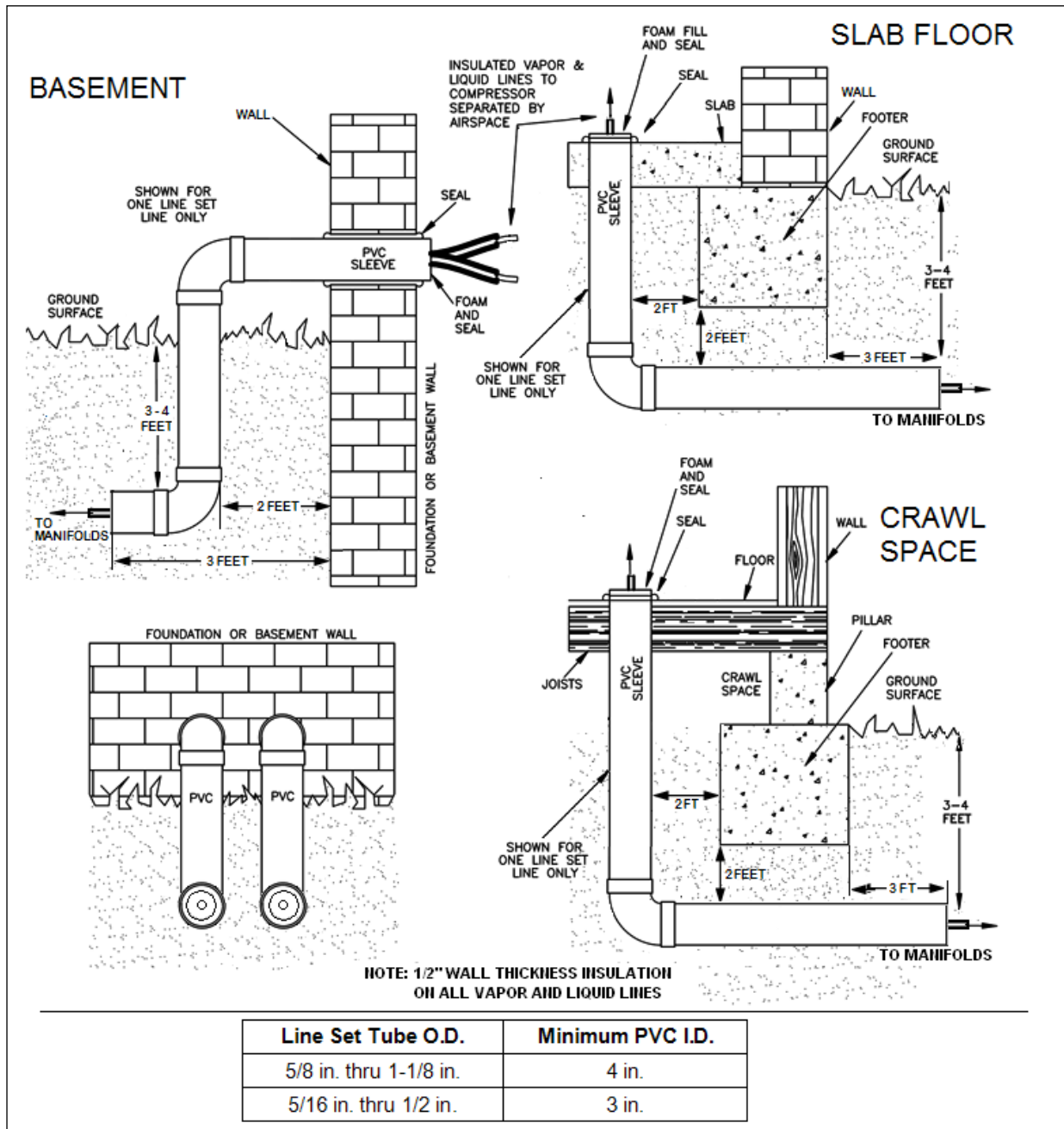
- Loctite POLYSEAMSEAL Caulk and All Purpose Adhesive Caulk
- DAP DYNAFLEX 230 Premium Interior/Exterior Latex Sealant
- 3M Polyurethane Construction Sealant 525

Continue to foam and seal around the insulated refrigerant lines inside the PVC building entry pipes, using the following foam/sealant:

- Dow Insulating Foam Sealant (“Great Stuff”, #7498500154)

CONTACT:

For further assistance, call ETI Technical Service at 706-863-0091.



Earth Loop Line Set - Building Entry