



HOT WATER HEATING PERMIT INSPECTION REQUIREMENTS – INSTALLATION GUIDE

- Calculate the exact footage of each loop and record it as each loop is installed
- Install a permanent waterproof tag on each loop showing the exact footage, zone number, area, and/or sub-area the loop serves
- When headers are installed lower than the piping (ceiling below, or crawlspace) provide all footages and information, above and below the floor for inspection purposes
- Minimum header size is 1"
- Air test required 50 PSI +/- . Water test not acceptable
- Rigid conduit elbows required on all ends penetrating the slab
- Balancing valves are required on most loops
- No splices will be accepted in, above, or under the slab unless they are pre-approved by the inspector
- Start all piping at least 2" away from any wall to prevent damage from nails
- Start basement piping 2" away from any future back framing that will be added after slab is poured
- A 6" hot pass is required at all outside walls, this means that 2 pipes are installed in the first 12" at the outside walls
- Any pipe that is kinked enough to leave a mark is to be replaced. Exception: Wirsbo, and Rehau Piping, which can be reshaped using a heat gun
- Kitchen, bathrooms, and other small rooms require extra attention. Since the TECA guidelines do not permit spacing greater than 12" o.c. this means that at least one lineal foot of piping must be installed for every square foot of room. When floor space is covered by cabinets or other things that create unheated areas, additional pipe or auxiliary heating will be required.
- Room combining is not permitted except in a few cases as outlined in TECA's latest publication. This also means that you cannot count the tails from one room as heat for another area even when they are in the same zone
- Make note of any areas that require auxiliary heat and deal with them at the rough-in stage (adding baseboard at the final is not a wise choice)
- Drill oversized holes for piping to reduce friction noise, and install wrap-around clips. One sided Talon clips are not permitted on heating pipe