



PLUMBING INFORMATION

One and Two Family Residential

Please be sure to acquire all necessary permits for the work being performed (e.g. building, electrical, heating, plumbing). All work must be completed by a licensed plumber unless you live in a single-family home that you own **and** occupy. If you have any questions as to whether a permit is necessary, please contact our office at 832-6411 to receive clarification. Be alert to “handymen” who may ask you to acquire the permit so they can do the work. The risk is that they may not be licensed to legally perform the work. It is important to note that the person acquiring the permit is responsible for the work that is done. If you obtain the permit for them you may be liable for the work they do.

Following is a list of guidelines for properly installing plumbing:

- 1) Drain and vent piping is normally done in Polyvinyl chloride (PVC-white) or Acrylonitrile butadiene (ABS-black) schedule 40 plastic.
- 2) 1-1/2” and 2” plastic pipe: The minimum pitch is 1/4” per every foot of run. The maximum pitch is 1/2” per foot.
- 3) 3” and 4” plastic pipe: The minimum pitch is 1/8” per every foot of run. The maximum pitch is 1/2” per foot.
- 4) Drainage-type fittings (long sweep fittings) **are required** in the following instances:
 - 1) When going from horizontal to horizontal.
 - 2) When going from vertical to horizontal.
- 5) Regular turn fittings may be used when going from horizontal to vertical or whenever it is the first elbow downstream from the p-trap.
- 6) Vent elbows and short turn tees may only be used when venting.
- 7) Clean out tees shall be centered at 28” to 60” off the floor and **must** be left accessible.
- 8) All plastic drain and vent pipe shall be supported at maximum 4’ (four foot) intervals. Copper water pipes shall be supported at maximum 6’ (six foot) intervals. Pex piping shall be supported at intervals not to exceed 32”.

- 9) Inspections are performed on any underground plumbing before it is covered; a rough-in inspection is done before the walls are insulated/enclosed; and a final inspection is done after all work is completed. Any violations must be corrected and approved before proceeding to the next inspection.
- 10) If you will be gluing PVC (white plastic pipe) to ABS (black plastic pipe), there is only one glue/cement approved for this. It is called "Transition Cement". It is made by the Oatey Company and the can is light green and white in color. There are other glues that claim to do the same, but currently, they are not legal for use in Wisconsin. When using the transition cement an approved cleaner/primer to prepare the pipe for gluing must also be used.
- 11) Nail plates are required in any location where the edge of a hole in which a plumbing pipe is ran is less than 1-1/4" from the edge of the stud or floor joist.
- 12) Shock arrestors, to control "water hammer" are required on automatic washing machines and dishwashers.
- 13) Please check with the Building Inspector, 832-6411, when boring holes through floor joists, to prevent weakening the building structure.
- 14) When repiping the water distribution system, the water meter must be turned in the horizontal position and valves installed on the inlet and outlet sides. Please see the illustration on the attached page.

Permits are issued by the Department of Public Works, fifth floor, City Hall, 100 North Appleton Street, Appleton, WI 54911. Inspectors are available for permits between the hours of 8:00-9:30AM or by appointment.

DEPARTMENT OF COMMUNITY DEVELOPMENT ♦ INSPECTION DIVISION
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