

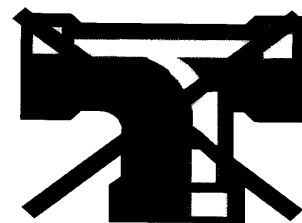
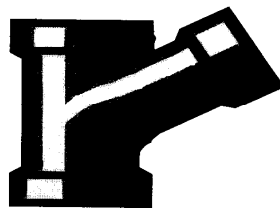
# PLUMBING GUIDELINES

BEFORE YOU START, MAKE SURE YOU HAVE THE PROPER PERMITS. A homeowner may do his own work, in a single family dwelling, in which he owns and is living in or about to occupy. Any other type of work including rentals, small in home commercial (beauty shops), requires a licensed Master Plumber. **CONTRACTORS CANNOT USE A HOME OWNERS PERMIT. THEY MUST GET THEIR OWN PERMIT. PLEASE CALL THE BIG RAPIDS TOWNSHIP BUILDING DEPARTMENT FOR FURTHER ASSISTANCE.**

**IF YOU HAVE CODE QUESTIONS CONTACT JIM RAAB,  
BIG RAPIDS TOWNSHIP PLUMBING INSPECTOR AT 231-796-3603  
JIM INSPECTS: TUESDAYS AND THURSDAYS  
SCHEDULE INSPECTION AT 231-796-3603**

1. Every building shall have a main vent that is either a vent stack or a stack vent. All vents that extend through a roof shall terminate at least one foot above the roof. To prevent front closure every vent & extension through a roof shall not be less than 3 inch in diameter. Any increase in the size of the vents shall be made inside the building within a minimum of one foot below the roof or inside the wall.
2. Do not glue any pipe, if you think it may fail an inspection, dry fit it first, then call for an inspection. It is better to pay for a re-inspection than to replace the piping.
3. You cannot use S-traps. You must use P-traps.
4. You must use purple primer on P.V.C. plastic pipe.
5. You must use orange cement on C.P.V.C. pipe.
6. You cannot glue "white" P.V.C. pipe to "black" A.B.S. pipe. You must use a neoprene boot or an approved adaptor.
7. Always use wyes on the horizontal drain line.
8. Install clean-outs at the base of each soil or waste stack and also at the building entrance.
9. You must install water hammer arresters (Mechanical air chamber) that conforms to ASE 1010 WATTS #055 or WATTS #15 on the hot or cold water lines, for automatic clothes washers, dishwashers & quick closing valves.
10. You must call for an inspection before you cover any piping. You must call for a final inspection, and receive an occupancy permit before you occupy.
11. Big Rapids Township is enforcing the 2005 Michigan Residential Code.

## APPROVED FITTINGS FOR DRAIN, WASTE AND VENT SYSTEMS



"Tee" may be used in  
**VERTICAL** position

"Wye" may be used in  
**HORIZONTAL** positions

"Tee" may NOT be used in  
**HORIZONTAL** positions  
**ONLY VERTICAL**

## GUIDELINES FOR PLUMBING INSTALLATIONS

## **CLEAN-OUTS ARE REQUIRED AT:**

1. Base of all soil and waste stacks.
2. Junction of building sewer and building drain—may be immediately inside or outside of building.
3. Each change of direction of the building drain, or of horizontal waste or soil lines, which is greater than 45 degrees.
4. Every 50 feet of horizontal drainage line 4” in diameter or smaller.

## **APPROVED MATERIALS**

### Drainage, waste and vent.

1. Plastic -  
ABS — ASTM 2661 - ASTM F—628  
Solvent Cement — ASTM 2235  
  
PVC — ASTM 2665 - ASTM 2949  
Solvent Cement ASTM 2564  
  
Primer— ASTM 656  
Solvent Cement ASTM 2564
2. Copper DWV
3. Cast iron soil pipe

### Water Distribution Piping

1. Copper pipe types M, L, or K
2. CPVC plastic ASTM D — 2846 Orange Solvent Cement — ASTM F-493
3. Polybutylene ASTM D — 3309
4. Galvanized steel

P — 1223.2 Installation: Faucets and diverters shall be installed so the flow of hot water from the fitting corresponds to the left hand side of the fixture fitting.

**P - 1223.3 Shower valves: Shower valves for individual showers shall be balanced pressure-mixing valves or thermostatic-mixing valves conforming to the requirements of ASSE 1016 listed in Appendix A. Water temperature control valves shall be equipped with hi~h-limit stops adjusted to maximum hot water setting of 110 degrees F (43 degrees C).**

720.6.4 Ceiling and floor openings “FIRESTOPPING” shall be installed at openings around vents, pipes, ducts, chimneys and fireplaces at ceiling and floor levels, with approved non-combustible materials.

## **STATE PLUMBING CODE — THINGS TO BE AWARE OF.**

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|----------|--|
| P-603.2  | No sanitary “tees” permitted on horizontal lines.        |
| P-517.1  | Plastic drainage—do not glue PVC or ABS pipe or fitting. |
| P-601.1  | 2” Drain pipe for automatic clothes washer and shower.   |
| P-914.1  | All vents through roof must be 3” in size (Frost).       |
| P-1503.2 | Water lines — 3/4” main lines up to last fixture.        |
| P-1223.3 | Shower Valves must be scald proof.                       |

# **CALL THE INSPECTOR PRIOR TO INSTALLATION**