

**P3104.3 Vent connection to drainage system.** Every dry vent connecting to a horizontal drain shall connect above the centerline of the horizontal drain pipe.

**P3104.4 Vertical rise of vent.** Every dry vent shall rise vertically to a minimum of 6 inches (152 mm) above the flood level rim of the highest trap or trapped fixture being vented.

**P3104.5 Height above fixtures.** A connection between a vent pipe and a vent stack or stack vent shall be made at least 6 inches (152 mm) above the flood level rim of the highest fixture served by the vent. Horizontal vent pipes forming branch vents shall be at least 6 inches (152 mm) above the flood level rim of the highest fixture served.

**P3104.6 Vent for future fixtures.** Where the drainage piping has been roughed-in for future fixtures, a rough-in connection for a vent shall be installed a minimum of one-half the diameter of the drain. The vent rough-in shall connect to the vent system or shall be vented by other means as provided in this chapter. The connection shall be identified to indicate that the connection is a vent.

**SECTION P3105  
FIXTURE VENTS**

**P3105.1 Distance of trap from vent.** Each fixture trap shall have a protecting vent located so that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in Table P3105.1.

**Exception:** The developed length of the fixture drain from the trap weir to the vent fitting for self-siphoning fixtures, such as water closets, shall not be limited.

**TABLE P3105.1  
MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT**

| SIZE OF TRAP (inches) | SLOPE (inch per foot) | DISTANCE FROM TRAP (feet) |
|-----------------------|-----------------------|---------------------------|
| 1 1/4                 | 1/4                   | 5                         |
| 1 1/2                 | 1/4                   | 6                         |
| 2                     | 1/4                   | 8                         |
| 3                     | 1/8                   | 12                        |
| 4                     | 1/8                   | 16                        |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm,  
1 inch per foot = 83.3 mm/m.

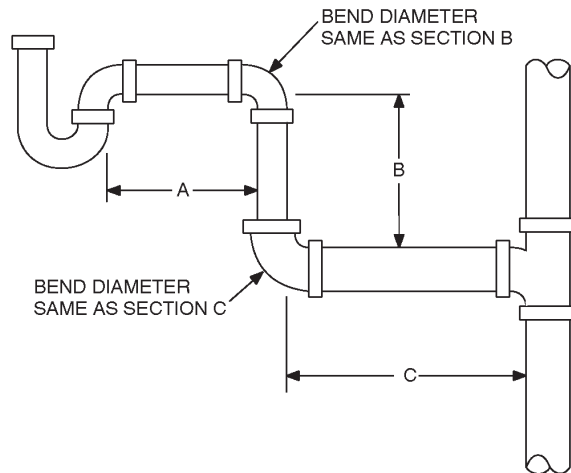
**P3105.2 Fixture drains.** The total fall in a fixture drain due to pipe slope shall not exceed one pipe diameter, nor shall the vent pipe connection to a fixture drain, except for water closets, be below the weir of the trap, except as provided in Section P3105.3.

**P3105.3 Vertical leg for waste fixture drains.** A vertical leg (see Figure P3105.3) is permitted within a fixture drain of a waste fixture in accordance with the following criteria:

1. Minimum trap diameter shall be in accordance with Table P3201.7.
2. The diameter of Section A shall be equal to the diameter of the trap.
3. The length of Section A shall not be less than 8 inches (203 mm) and in accordance with Table P3105.1.

4. The diameter of Section B shall be one pipe size larger than the diameter of Section A.
5. The length of Section B shall not be more than 36 inches (914 mm).
6. The diameter of Section C shall be one pipe size larger than the diameter of Section B.
7. The total length of Section A and Section C shall not exceed the distance allowed in Table P3105.1.
8. Bends shall be the diameter of the largest connected section.

**P3105.4 Crown vent.** A vent shall not be installed within two pipe diameters of the trap weir.



**FIGURE P3105.3  
VERTICAL LEG FIXTURE DRAIN SCHEMATIC**

**SECTION P3106  
INDIVIDUAL VENT**

**P3106.1 Individual vent permitted.** Each trap and trapped fixture is permitted to be provided with an individual vent. The individual vent shall connect to the fixture drain of the trap or trapped fixture being vented.

**SECTION P3107  
COMMON VENT**

**P3107.1 Individual vent as common vent.** An individual vent is permitted to vent two traps or trapped fixtures as a common vent. The traps or trapped fixtures being common vented shall be located on the same floor level.

**P3107.2 Connection at the same level.** Where the fixture drains being common vented connect at the same level, the vent connection shall be at the interconnection of the fixture drains or downstream of the interconnection.

**P3107.3 Connection at different levels.** Where the fixture drains connect at different levels, the vent shall connect as a vertical extension of the vertical drain. The vertical drain pipe connecting the two fixture drains shall be considered the vent for the lower fixture drain, and shall be sized in accordance with Table P3107.3. The upper fixture shall not be a water closet.