

trap arm of one and two unit fixtures that also serves as a vent not exceeding four fixtures. Wet-vented fixtures shall be within the same story; provided, further, that fixtures with a continuous vent discharging into a wet vent shall be within the same story as the wet-vented fixtures. No wet vent shall exceed 1.8m (6 ft.) in developed length.

**908.1.2 Size.** The vertical piping between any two consecutive inlet levels shall be considered a wet-vented section. Each wet-vented section shall be not less than one pipe size exceeding the required minimum waste pipe size of the upper fixture or shall be one pipe size exceeding the required minimum pipe size for the sum of the fixture units served by such wet-vented section, whichever is larger, but in no case less than 50mm (2 in.).

**908.1.3 Vent Connection.** Common vent sizing shall be the sum of the fixture units served but, in no case, smaller than the minimum vent pipe size required for any fixture served, or by Section 904.0.

## **908.2 Horizontal Wet Venting for Bathroom (Groups).**

**908.2.1 Where Permitted.** Water closets, bathtubs, and floor drains within one or two bathroom groups, located on the same floor level and for private use shall be permitted to be vented by a wet vent. The wet vent shall be considered the vent for the fixtures and shall extend from the connection of the dry vent along the direction of the flow in the drain pipe to the most downstream fixture drain or trap arm connection to the horizontal branch drain. Each wet-vented fixture drain or trap arm shall connect independently to the wet-vented horizontal branch drain. Each individual fixture drain or trap arm shall connect horizontally to the wet-vented horizontal branch drain or shall be provided with a dry vent. The trap-to-vent distance shall be in accordance with Table 10-1. Only the fixtures within the bathroom groups shall connect to the wet-vented horizontal branch drain. The water closet fixture drain or trap arm connection to the wet vent shall be downstream of any fixture drain or trap arm connections. Any additional fixtures shall discharge downstream of the wet vent system and be conventionally vented.

**908.2.2 Vent Connection.** The dry vent connection to the wet vent shall be an individual vent or common vent for the lavatory, urinal, bidet, shower, or bathtub. Only one wet-vented fixture drain or trap arm shall discharge upstream of the dry-vented fixture drain connection.

**908.2.3 Size.** The wet vent shall be sized based on the fixture unit discharge into the wet vent. The wet vent shall be not less than 50mm (2 in.) in diameter for 4 dfu or less, and not less than 80mm (3 in.) in diameter for 5 dfu or more. The dry vent shall be sized in accordance with Tables 7-3 and 7-4, based on the total fixture units discharging into the wet vent.

## **909.0 Special Venting for Island Fixtures.**

Traps for island sinks and similar equipment shall be roughed in above the floor and shall be permitted to be vented by extending the vent as high as possible, but not less than the drainboard height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical fixture drain. The return vent shall be connected to the horizontal drain through a wye-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a wye branch immediately below the floor and extending to the nearest partition and then through the roof to the open air, or shall be permitted to be connected to other vents at a point not less than 15cm (6 in.) above the flood-level rim of the fixtures served. Drainage fittings shall be used on all parts of the vent below the floor level, and a slope of not less than 20mm/m (1/4 in./ft.) back to the drain shall be maintained. The return bend used under the drainboard shall be a one piece fitting or an assembly of elbows in the following order:

- (1) 0.8 of a radian (45 degrees)
- (2) 1.6 of a radian (90 degrees), and
- (3) 0.8 of a radian (45 degrees)

Pipe sizing shall be as elsewhere required in this code. The island sink drain, upstream of the returned vent, shall serve no other fixtures. An accessible cleanout shall be installed in the vertical portion of the foot vent.

## **910.0 Combination Waste and Vent Systems.**

**910.1** Combination waste and vent systems shall be permitted only where structural conditions preclude the installation of conventional systems as otherwise prescribed by this code.

**910.2** Plans and specifications for each combination waste and vent system shall first be approved by the Authority Having Jurisdiction before any portion of any such system is installed.

**910.3** Each combination waste and vent system, as defined in Chapter 2, shall be provided with a vent or vents adequate to ensure free circulation of air. Any branch exceeding 4.5m (15 ft.) in length shall be