Plumbing system components for recreational vehicles

10 Waste holding tanks

10.1 Design and construction

10.1.1 Tanks shall have interior surfaces free of recessed areas and shall have internal corners with a continuous radius of at least 1 in (25.4 mm). Tanks shall have a minimum uniform slope of 2 in (17.2 mm) per ft (0.3 m) to a 3-in (76.2 mm) minimum diameter drain outlet. Tanks shall be at least 3 in (76.2 mm) deep.

10.1.2 Tanks shall be reinforced to withstand the normal stresses of the use environment such as road shock or vibration.

10.1.3 Body waste tank inlet connections shall be vertical and shall have a nominal 3.0-in (76.2 mm) diameter minimum pipe size. The inlet may be integrated with a standard closet flange. Liquid waste tank inlet connections shall be vertical and shall have a nominal 1.5-in (38.1 mm) diameter minimum pipe size.

10.1.4 Tanks shall be provided with a vent connection installed at the highest point or top of the tank. The connection shall be at least a nominal 1-¼-in IPS diameter to permit a nominal 1-¼-in vent takeoff to rise vertically. The vent connection shall not extend more than 2.0 in (17.2 mm) below the inside top of the tank.

10.1.5 Tanks shall be provided with a drain opening at the lowest point.