

embedded in the fitting. This resistance wire supplies the heat source necessary for fusion.

316.2 Plastic Pipe to Other Materials. When connecting plastic pipe to other types of piping, only approved types of fittings and adapters designed for the specific transition intended shall be used.

316.3 Flanged Fixture Connections.

316.3.1 Fixture connections between drainage pipes and water closets, floor outlet service sinks and urinals shall be made by means of approved ABS, PVC, solvent cemented; rubber compression gaskets; or screwed to the drainage pipe. The connection shall be bolted with an approved gasket, washer, or setting compound between the fixture and the connection. The bottom of the flange shall be set on an approved firm base.

316.3.2 Closet bends or stubs shall be cut off so as to present a smooth surface even with the top of the closet ring before rough inspection is called.

316.3.3 Wall-mounted water closet fixtures shall be securely bolted to an approved carrier fitting. The connecting pipe between the carrier fitting and the fixture shall be an approved material and designed to accommodate an adequately sized gasket. Gasket material shall be neoprene, felt, or similar approved types.

316.4 Prohibited Joints and Connections.

316.4.1 Drainage System. Any fitting or connection that has an enlargement, chamber, or recess with a ledge, shoulder, or reduction of pipe area that offers an obstruction to flow through the drain shall be prohibited.

316.4.2 No fitting or connection that offers abnormal obstruction to flow shall be used. The enlargement of a 80mm (3 in.) closet bend or stub to 100mm (4 in.) shall not be considered an obstruction.

317.0 Increases and Reducers.

Where different sizes of pipes and fittings are to be connected, the proper size increasers or reducers or reducing fittings shall be used between the two sizes. Brass or cast-iron body cleanouts shall not be used as a reducer or adapter from cast-iron drainage pipe to iron pipe size (IPS) pipe.

318.0 Food-Handling Establishments.

Food or drinks shall not be stored, prepared, or displayed beneath soil or drain pipes, unless those areas are protected against leakage or condensation from such pipes reaching the food or drink as described below. Where building design requires

that soil or drain pipes be located over such areas, the installation shall be made with the least possible number of joints and shall be installed so as to connect to the nearest adequately sized vertical stack with the provisions as follows:

318.1 Openings through floors over such areas shall be sealed water-tight to the floor construction.

318.2 Floor and shower drains installed above such areas shall be equipped with integral seepage pans.

318.3 Soil or drain pipes shall be of an approved material as listed in Table 14-1 or equivalent International Standard(s) approved by the Authority Having Jurisdiction and Section 701.0. Materials shall conform to established standards. Cleanouts shall be extended through the floor construction above.

318.4 Piping subject to operation at temperatures that will form condensation on the exterior of the pipe shall be thermally insulated.

318.5 Where pipes are installed in ceilings above such areas, the ceiling shall be of the removable type, or shall be provided with access panels in order to form a ready access for inspection of piping.

319.0 Test Gauges.

Tests required by this code, which are performed utilizing dial gauges, shall be limited to gauges having the following pressure graduations or incrementations.

319.1 Required pressure tests of 70kPa (10 psi) or less shall be performed with gauges of 0.5kPa (0.10 psi) incrementation or less.

319.2 Required pressure tests exceeding 70kPa (10 psi) but less than or equal to 700kPa (100 psi) shall be performed with gauges of 5kPa (1 psi) incrementation or less.

319.3 Required pressure tests exceeding 700kPa (100 psi) shall be performed with gauges incremented for 2 percent or less of the required test pressure.

319.4 Test gauges shall have a pressure range not exceeding twice the test pressure applied.

320.0 Medical Gas and Vacuum Systems.

Such piping shall be installed, tested, and verified in compliance with the applicable standards referenced in Table 14-1 or equivalent International Standard(s) approved by the Authority Having Jurisdiction and the requirements of Chapter 13. The Authority Having Jurisdiction shall require evidence of the competency of the installers and verifiers.