

1350.3400 UTILITY CONNECTIONS.

Subpart 1. **Water connections.** Water piping to manufactured homes shall comply with the Minnesota Plumbing Code, chapter 4714. Upon the completion of a section or the entire water distribution system, it shall be tested in accordance with Code of Federal Regulations, title 24, part 3285.603 (e)1 and 2, and proved airtight with the use of air or water not less than the minimum working pressure under which it is to be used. The water heater must be disconnected when the piping system is air tested. Pipes shall be protected from freezing. Heat tape, when installed, shall be listed and installed in conformance with its listing and the manufacturer's instructions. When the manufactured home is installed on a support system subject to ground movement due to freezing and thawing, approved flexible connectors or semirigid copper tubing shall be used to prevent pipe breakage.

Subp. 2. **Sewer connections.** Waste piping from the on-site sewer connection to the manufactured home's drain outlet shall comply with the Minnesota Plumbing Code, chapter 4714. After completion of the drainage system at the site of occupancy, the entire drain/waste/vent system shall be tested by introducing air into the system equal to the pressure on a one-inch water column, or in accordance with Code of Federal Regulations, title 24, section 3280.612 (b), whichever is acceptable to the local authority having jurisdiction. When a manufactured home is installed on a support system subject to ground movement due to freezing and thawing, offsets or approved flexible connectors shall be used to prevent pipe breakage. Both offsets and approved flexible connectors may be used.

Subp. 3. **Gas piping.** Gas piping to the manufactured home shall be of adequate capacity rating to supply the connected load. It shall be installed in compliance with the Minnesota State Mechanical Code, chapter 1346. When the manufactured home is installed on a support system subject to ground movement because of freezing and thawing, semirigid copper pipe or a listed manufactured home gas connector for exterior use only shall be installed to prevent pipe breakage. Gas piping shall be protected from physical damage.

Subp. 4. **Tests for gas piping.** The manufactured home fuel gas piping system shall be tested before it is connected to the gas supply. Only air shall be used for the test. The manufactured home gas piping system shall be subjected to a pressure test with all appliance shutoff valves, except those ahead of fuel gas cooking appliances, in the open position. Appliance shutoff valves ahead of fuel gas cooking appliances shall be closed.

The test shall consist of air pressure at not less than ten inches nor more than 14 inches water column (six ounces to eight ounces per square inch). The system shall be isolated from the air pressure source and maintain this pressure for not less than ten minutes without perceptible leakage. Upon satisfactory completion of the test, the appliance valves ahead of fuel gas cooking appliances shall be opened, and the gas cooking appliance connectors tested with soapy water or bubble solution while under the pressure remaining in the piping system. Solutions used for testing for leakage shall not contain corrosive chemicals.

Pressure shall be measured with either a manometer, slope gage, or gage calibrated in either water inches or pounds per square inch with increments of either one-tenth inch or one-tenth pounds per square inch, as applicable. Upon satisfactory completion of the test, the manufactured home gas supply connector shall be installed and the connections tested with soapy water or bubble solution.

Subp. 5. **Electrical connections.** On-site electrical connections to the manufactured home and any on-site electrical wiring required to prepare the manufactured home for occupancy shall be done in conformance with the manufactured home building code and shall be installed and inspected as required by the Minnesota Electrical Act, Minnesota Statutes, sections 326B.32 to 326B.39.

Subp. 5a. **Electrical on-site testing.** After completion of all electrical wiring and connections, crossovers, electrical lights, and ceiling fans, the electrical system shall be tested on site by the electrical contractor of record. Tests shall include a continuity test to ensure proper bonding of metallic parts, polarity checks to determine if connections have been properly made, and an operational test on equipment. Continuity, polarity, and operational tests do not apply to water heaters, electric furnaces, dishwashers, clothes washers and dryers, and portable appliances. Smoke alarms and carbon monoxide detectors shall be functionally tested in accordance with the manufacturers' instructions.

Statutory Authority: *MS s 326B.02; 326B.101; 326B.106; 326B.13; 327.32; 327.33; 327B.01 to 327B.12*

History: *24 SR 1846; L 2007 c 140 art 5 s 32; art 13 s 4; 34 SR 866; 40 SR 71*

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