



City of La Puente

Division of Building and Safety

GAS PIPE INSTALLATION REQUIREMENTS

METALLIC PIPE

Per the 2007 California Plumbing Code Section 1209.5.11, ferrous (metallic) gas pipe is permitted to be installed underground when protected against corrosion in an approved manner.

The City of La Puente currently approves the following methods:

1. An approved factory applied coatings and wrapped with not less than 2 layers of minimum 10 mil wrapping.
2. All non-factory applied coated pipe and metallic gas fittings shall be protected from corrosion by applying an approved primer and then wrapping the fittings with not less than 4 layers of minimum 10 mil wrapping. All horizontal piping shall have at least 18-inches of earth cover or equivalent protection per 1211.1.1.
3. Risers shall be protected from corrosion by applying an approved primer and then wrapping the riser with not less than 4 layers of minimum 10 mil wrapping to a point at least 6-inches above grade.

PVC AND PE PLASTIC PIPE

Per the 2007 California Plumbing Code Section 1211.1.1 PVC & PE Plastic pipe installed underground in exterior locations shall have at least 18-inches of earth cover or other equivalent protection. Risers shall be metallic and shall be protected from corrosion by applying an approved primer and then wrapping the riser with not less than 4 layers of minimum 10 mil wrapping to a point at least 6-inches above grade. When a riser connects underground to PVC or PE Plastic pipe, the underground horizontal metallic portion of the riser shall extend at least 30-inches before connecting to the plastic pipe by means of an approved transition fitting or adapter. An electrically continuous, corrosion resistant tracer wire 14 AWG minimum or tape shall be buried with the plastic pipe to facilitate locating. One end shall terminate above ground at the building wall or riser.

GAS PIPING INSTALLED UNDER BUILDINGS

Per the 2007 California Plumbing Code Section 1211.1.6, no gas piping shall be installed in or on the ground under any buildings unless encased in an approved conduit (see illustration on page 3 of 3), designed to withstand the superimposed loads. The City of La Puente defines the term "buildings" to include structures such as porches and steps, whether covered or uncovered, sheds, breezeways, roofed porte-cocheres, roofed patios, carports, covered walks, covered driveways, and similar structures or appurtenances.

- The conduit shall extend into a normally usable and accessible portion of the building and at a point where the conduit terminates in the building, the space between the conduit and the gas piping shall be sealed to prevent the entrance of any gas leakage.
- Where the end sealing is of a type that will retain the full pressure of the pipe, the conduit shall be designed for the same pressure as the pipe.
- The conduit shall extend at least 4 inches outside the building, be vented above grade to the outside, and be installed so as to prevent the entrance of water and insects.

PRESSURE TEST

A pressure test, provided by applicant, is required per the 2007 CPC, section 1214.3.1 Test pressure shall be measured with a manometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss due to leakage during the pressure test period. The source of pressure shall be isolated before the pressure tests are made. Mechanical gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than five times the test pressure.

RESIDENTIAL TEST

The City of La Puente allows, for "Residential Only" in lieu of the above test device, a minimum 10-PSI test for 15 minutes, with no drop in pressure. Pressure test is required to be performed with 20 lb gauges with 1/10 pound increments and a pressure range not to exceed 15 pounds.

NEVER COVER OR CONCEAL PIPING UNTIL INSPECTED AND APPROVED. For correct pipe sizing, please provide the distance(s) to the appliance(s) until pressure test has been approved. A "FULL WAY BALL TYPE" gas shut-off valve is required to be in an accessible and unobstructed location, within 3-feet of all gas appliances, and within 6-feet of ranges and laundry dryers. (NOTE* gate valves are not permitted")

PLASTIC PIPE

1209.5.4 Plastic Pipe, Tubing, and Fittings.

Plastic pipe, tubing, and fittings shall be used outside underground only and shall conform with ASTM D 2513, Standard Specification for Thermoplastic Gas Pressure Pipe, Tubing, and Fittings. Pipe to be used shall be marked "gas" and "ASTM D 2513." [NFPA54: 5.6.4.1] Anode-less risers shall comply with the following: [NFPA54: 5.6.4.3] 1209.5.4.1 Factory-assembled anode-less risers shall be recommended by the manufacturer for the gas used and shall be leak-tested by the manufacturer in accordance with written procedures.

1209.5.4.2 Service head adapters and field assembled anode-less risers incorporating service head adapters shall be recommended by the manufacturer for the gas used by the manufacturer and shall be design-certified to meet the requirements of Category I of ASTM F 1973, Factory Assembled Anode-less Riser and Transition Fitting on Polyethylene (PE) Fuel Gas Distribution Systems and the code of Federal Regulations, Title 49, Part 192.281(e). The manufacturer shall provide the user with qualified installation instructions as prescribed by the code of Federal Regulations, Title 49, Part 192.283(b).

