

## **19.14.010 Uniform Plumbing Code adopted.**

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(a) The Uniform Plumbing Code, 2021 Edition, published by the International Association of Plumbing and Mechanical Officials (IAPMO), is expressly referred to and adopted as the plumbing code of the city, and by this reference and adoption made a part of this chapter as if fully set forth herein, save and except those specific deletions, amendments, and additions made in subsection (b) of this section. One copy of said Uniform Plumbing Code shall be filed and kept in the office of the city clerk.

(b) The following provisions designated “deletion” are deleted and excepted from, and the following provisions designated “addition” are added to, and the following provisions designated “amendment” are amendments to the provisions of the Uniform Plumbing Code so as to be and become part of the plumbing code of the city as so amended:

(1) Amendment. Section 312.6, Freezing protection, of the U.P.C. shall be amended in its entirety to read as follows:

Water, soil, and waste pipes shall not be installed outside of a building, in attics or crawl spaces, concealed in outside walls, or in any other place subjected to freezing temperature unless adequate provisions are made to protect such pipes from freezing by insulation or heat or both.

Exterior water supply system piping installed in trenches on private property shall be installed at a minimum of 6 inches below the frost line established at 32 inches (38 inches to top of pipe). A 48-inch bury is recommended for worst-case conditions and will meet Ketchikan Public Utilities Water Division (KPU) standards for installation in the right of way and the installation of fire hydrants on private property.

Exceptions:

1. Less than 36-inch bury will require 2-inch thick by 24-inch wide rigid Dow Styrofoam Hi-60 extruded polystyrene, Owens Corning Foamular 600 extruded polystyrene insulation, or equal.

2. Less than 28-inch bury will require two layers of 2-inch rigid foam with lapped seams.

3. Less than 18-inch bury will require two layers of 2-inch rigid foam with self-regulating heating cable with waterproof jacket such as Raychem 6-watt/ft. Winterguard Wet, or equal. It is further required that two inch bedding material be placed between the rigid foam and heat cabled pipe. Article 426 and 427 of the 2008 edition of the National Electrical Code requires the self-regulating heating cable must be ground fault equipment protected on each heating cable branch circuit.

4. Overland, rock face surface, or under dock installations are allowed under the following conditions: The pipe must be heat traced with Raychem or equal heating cable to the KPU demark. The pipe must be insulated with a minimum 1-1/8 inch OD closed cell urethane such as Armstrong AP Armaflex 2000 pipe insulation, or equal, with weather resistant protective finish.

5. If other than type K, annealed copper tubing will be used, the tubing or pipe must be approved for use, be installed to the manufacturer's specifications, and be equal to the requirements as stated in exceptions 1, 2, 3, and 4. Specifications must be provided and approved by the building official or Ketchikan Public Utilities Engineering Department.

Installation details are available at the KPU Water Division Engineering Department located at 2930 Tongass Avenue, Ketchikan, Alaska 99901.

(2) Amendment. The first paragraph of Table 422.1, Minimum Plumbing Facilities, of the U.P.C. shall be amended in its entirety to read as follows:

TABLE 422.1

MINIMUM PLUMBING FACILITIES<sup>2,3,7,9,10</sup>

**GENERAL**

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the city. Table 422.1 applies to new buildings, additions to a building, and changes of occupancy or type in an existing building resulting in an increased occupant load. Plumbing fixtures shall be provided for the type of building occupancy with the minimum numbers as shown in Table 422.1. The numbers of fixtures are the minimum required as shown in Table 422.1 and the occupant load factors shall be as shown in Table 422.1.

**EXCEPTION:** Where circumstances dictate that a different ratio is needed, the adjustment shall be approved by the building official.

(3) Amendment. Additional notes are added to the end of Table 422.1, Minimum Plumbing Facilities, of the U.P.C. to read as follows:

<sup>6</sup>Group lavatories that are 24 lineal inches (610 mm) of wash sink or 18 inches (457 mm) of a circular basin, where provided with water outlets for such space, shall be considered equivalent to one lavatory.

<sup>7</sup>Occupant loads over 30 shall have one drinking fountain for each 150 occupants.

<sup>8</sup>Drinking fountains shall not be installed in toilet rooms.

<sup>9</sup>When the design occupant load is less than 10 persons, a facility usable by either sex may be approved by the building official.

<sup>10</sup>Any category not mentioned specifically or about which there are any questions shall be classified by the building official and included in the category which it most nearly resembles, based on the expected use of the plumbing facilities.

(4) Section 603.2 of the U.P.C. is amended by the addition of the following at the end of that section:

All persons who service, test or install devices on assemblies as required by this section shall enroll in and use the approved single-point repository service to file records of all required inspections, tests and maintenance. The repository service is maintained and provided to the city's water division through a third party reporting system. Fees, as applicable, shall be paid directly by such persons to the approved single-point repository service vendor.

(5) Amendment. Section 1208.1 of the U.P.C. shall be amended by the addition of Section 1208.1.2, Piping system requirements, which shall read as follows:

1208.1.2, Piping system requirements In addition to the requirements of this code for gas piping, the facilities and piping for use with liquefied petroleum gas shall meet the following requirements:

1. Liquefied petroleum gas piping shall not serve any gas fired appliance located in a pit or basement where heavier than air gas might collect to form a flammable mixture.
2. Pipe joint compounds used on threaded connections shall be insoluble in liquefied petroleum gas.
3. Every valve and appurtenance used on such piping shall be designed and approved for use with liquefied petroleum gas.
4. Relief valves shall discharge to the exterior of the building into the air and shall be located at least five feet horizontally away from any opening into a building that is below the discharge opening.

(Ord. 1953 §§ 2, 3, 2022; Ord. 1879 § 1, 2018)