

**Title R12  
WATER\***

**UPDATED: November 20, 2013**

**\*Editor's Note:** For board rules and regulations relevant to the administrative rules in BOH Title R12, see BOH Title 12.

**Chapters:**

**R12.04 CORROSION-PREVENTION CHEMICALS IN POTABLE HOT-WATER SYSTEMS**

**R12.08 POLYBUTYLENE PIPE AND TUBING**

**R12.04 CORROSION-PREVENTION CHEMICALS IN POTABLE HOT-WATER SYSTEMS**

**Sections:**

R12.04.010 System design and capacity.

R12.04.020 Location.

R12.04.030 Chemicals.

**R12.04.010 System design and capacity.**

A. Chemical feeding equipment shall be able to supply, at all times, accurate amounts of chemical at an accurate rate.

B. Equipment capable of providing accurate proportioning of chemical feed rate to rate of flow shall be provided.

C. Materials and surfaces subject to chemical contact shall be made of chemically resistant materials.

D. Backflow prevention shall be provided by:

1. Reduced-pressure-principle backflow-prevention device on the make-up water line to the water heater or boiler.

2. The backflow preventer shall be upstream from the chemical feeder and downstream from any cold water fixture.

3. Additional backflow-prevention devices may be required on main service lines or at other points when conditions indicate the necessity for such additional devices.

E. All openings on the equipment shall be securely covered to prevent contamination by accidental or intentional introduction of undesirable material. (HDR 13 §1, 11-5-76).

**R12.04.020 Location.**

A. Chemical feeding devices shall be located in a separate room used for no other purpose, or where located in a room used for other purposes, a partitioned or wire mesh enclosure meeting American Society for Testing and Materials designation A-392 standard specification for zinc-coated steel chain-link fence fabrics, class 2, 11 gauge or heavier, securely framed and anchored with suitable material to prevent unauthorized entry, shall be provided.

1. Such room, partition or enclosure shall be kept locked.

2. All chemicals to be used shall be stored within the locked area.

3. Chemicals not used by this equipment shall not be stored within the locked area.

B. The area shall be well drained and maintained in a clean condition.

C. Equipment and stock chemicals shall be protected from condensation dripping from ceilings, overhead piping, or other sources.

D. There shall be a hose bib or sink with hot and cold running water available in the equipment room or in the immediate vicinity thereof. (HDR 13 §2, 11-5-76).

**R12.04.030 Chemicals.**

A. Chemical containers shall be fully labeled by the manufacturer to include:

1. Chemical name or composition;

2. Concentration and/or instructions for mixing specific concentrations;

3. Clearly understood notice that the product is intended for human consumption when used as specified;

4. The manufacturer's name and address and distributor's name and address.

B. Chemicals shall be stored in covered or unopened shipping containers until transferred to an approved storage unit or mixing tank.

C. Accurate measuring devices shall be provided to ensure accurate preparation of feed solutions.

D. Suitable testing equipment shall be provided at the feeding device location to determine pH and chemical residual as well as any other tests specifically required by the director for a particular installation.

Daily records of tests shall be kept and shall be available at the equipment site for review by the director and superintendent.

E. Each chemical shall be approved by the director and superintendent. Prior to use, a prerequisite to that approval may be approval by appropriate federal and state agencies as determined by the director and/or superintendent. (HDR 13 §3, 11-5-76)

## **R12.08 POLYBUTYLENE PIPE AND TUBING**

### **Sections:**

R12.08.010 Use in outside cold water systems.

R12.08.020 Recognized standards.

**R12.08.010 Use in outside cold water systems.** Polybutylene (PB) pipe and tubing manufactured to recognized standards may be used for cold water distribution systems outside a building in unincorporated King County. Such pipe and tubing shall be installed in accordance with the International Association of Plumbing and Mechanical Officials Installation Standard 17-1977, which is adopted by reference. (HDR 19 §1, 11-3-82).

**R12.08.020 Recognized standards.** Recognized standards shall include but not be limited to those of the following:

International Association of Plumbing and Mechanical Officials

National Sanitation Foundation

American Water Works Association

American National Standards Institute, Inc.

American Society for Testing Materials. (HDR 19 §2, 11-3-82).