

Section 9.31. Plumbing Facilities

9.31.1. Scope

9.31.1.1. Application

- 1) This Section applies to the plumbing facilities and *plumbing systems* within dwelling units.
- 2) In occupancies other than *dwelling* units, plumbing facilities, grab bars, floor drains, and floor and wall finishes around urinals shall conform to Subsection 3.7.2. (See also Section 3.8. regarding *accessible* plumbing facilities.)
- 3) Medical gas piping systems shall conform to Subsection 3.7.3.
- 4) Systems used for service water heating shall conform to the energy efficiency requirements in Part 10.

9.31.2. General

9.31.2.1. General

- 1) The construction, extension, *alteration*, renewal or repair of *plumbing systems* and sewage disposal systems shall conform to Part 7.

9.31.2.2. Corrosion Protection

- 1) Metal pipes in contact with cinders or other corrosive material shall be protected by a heavy coating of bitumen or other corrosion protection.

9.31.2.3. Grab Bars

- 1) When provided, grab bars shall be capable of resisting a load of not less than 1.3 kN applied vertically or horizontally.

9.31.2.4. Site Constructed Fixtures

- 1) A shower door that swings on a vertical axis shall be capable of opening outwards from a shower stall forming part of a site constructed fixture.

9.31.3. Water Supply and Distribution

9.31.3.1. Required Water Supply

- 1) Every *dwelling unit* shall be supplied with potable water.

9.31.3.2. Required Connections

- 1) Where a piped water supply is available, piping for hot and cold water shall be connected to every kitchen sink, lavatory, bathtub, shower, slop sink and laundry area.
- 2) Piping for cold water shall be run to every water closet.

9.31.4. Required Facilities

9.31.4.1. Required Fixtures

- 1) A kitchen sink, lavatory, bathtub or shower, and water closet shall be provided for every *dwelling unit* where a piped water supply is available.

9.31.4.2. Hot Water Supply

- 1) Where a piped water supply is available a hot water supply shall be provided in every *dwelling unit*.

9.31.4.3. Floor Drains

- 1) Where gravity drainage to a sewer, drainage ditch or dry well is possible, a floor drain shall be installed in a *basement* forming part of a *dwelling unit*.
- 2) A floor drain shall be provided in a garbage room, incinerator room or *boiler* room serving more than one *dwelling unit*.

9.31.5. Sewage Disposal**9.31.5.1. Building Sewer**

- 1) Wastes from every plumbing fixture shall be piped to the *building* sewer.

9.31.5.2. Discharge of Sewage

- 1) *Building* sewers shall discharge into a public sewage system where such system is available.
- 2) Where a public sewage system is not available, the *building* sewer shall discharge into a *private sewage disposal system*.

9.31.6. Service Water Heating Facilities**9.31.6.1. Hot Water Supply**

- 1) Where hot water is required to be supplied in accordance with Article 9.31.4.2., equipment shall
 - a) provide an adequate supply of hot water, and
 - b) be installed in conformance with Part 7.

9.31.6.2. Equipment and Installation

- 1) *Service water heaters* shall conform to appropriate provincial or territorial requirements or, in the absence of such requirements, to the Book II (Plumbing Systems) of this By-law.
- 2) The installation of *service water heaters*, including provisions for mounting, clearances and air supply, shall conform to
 - a) the Safety Standards Act and the following of its regulations:
 - i) the Gas Safety Regulation,
 - ii) the Electrical Safety Regulation, and
 - iii) the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation,
 - b) CSA B139, "Installation Code for Oil-Burning Equipment," and
 - c) CSA B365, "Installation Code for Solid-Fuel-Burning Appliances and Equipment."
- 3) Where the *building* is in a location where the spectral response acceleration, $S_a(0.2)$, is greater than 0.55, *service water heaters* shall be secured to the structure to prevent overturning. (See Note A-9.31.6.2.(3).)

9.31.6.3. Corrosion-Resistant Coating

- 1) Where storage tanks for *service water heaters* are of steel, they shall be coated with zinc, vitreous enamel (glass lined), hydraulic cement or other corrosion-resistant material.

9.31.6.4. Fuel-Burning Heaters

- 1) Fuel-burning *service water heaters* shall be connected to a *chimney flue* conforming to Section 9.21.

9.31.6.5. Heating Coils

- 1) Heating coils of *service water heaters* shall not be installed in a *flue* or in the combustion chamber of a *boiler* or *furnace* heating a *building*.