

CHAPTER 4

PLUMBING FIXTURES AND FIXTURE FITTINGS

Note: In addition the requirements of this chapter, which provide access to, or egress from, buildings or facilities where accessibility is required for applications listed in Section 109, of the California Building Code, regulated by the Division of the State Architect—Access Compliance shall also comply with Chapter 11A for public housing and Chapter 11B for public accommodations under authority cited by Gov. Code §4450 and in reference cited by Gov. Code §4450 through 4461, 12955.1 and H&SC §18949.1, 19952 through 19959.

401.0 Materials – General Requirements.

401.1 Quality of Fixtures. Plumbing fixtures shall be constructed of dense, durable, non-absorbent materials and shall have smooth, impervious surfaces, free from unnecessary concealed fouling surfaces. Except as permitted elsewhere in this code, fixtures shall conform in quality and design to nationally recognized applicable standards included in Table 14-1.

401.2 Lead. Sheet lead shall be not less than the following:

For safe pans not less than four (4) pounds per square foot (19.5 kg/m²) or one-sixteenth (1/16) of an inch (1.6 mm) thick (See Table 14-1).

401.3 Plumbing fixture fittings covered under the scope of NSF 61, Standard for Drinking Water System Components, shall comply with the requirements of NSF 61, Standard for Drinking Water System Components.

402.0 Water-Conserving Fixtures and Fittings.

402.1 Flush volumes for low-consumption and water-saver water closets and urinals shall be in accordance with applicable standards referenced in Table 14-1. [HCD 1 & HCD 2] Flow rates for shower heads and faucets shall meet the requirements of this section and applicable standards referenced in Table 14-1.

402.1.1 Shower Heads [HCD 1 & HCD 2] Shower heads shall be designed and installed so that they will not exceed a water supply flow rate of 2.5 gallons (9.4 liters) per minute measured at 80 psi.

402.1.2 Faucets [HCD 1 & HCD 2] Faucets at kitchens, lavatories, wetbars, laundry sinks, or other similar use fixtures shall be designed and manufactured so that they will not exceed a water supply flow rate of 2.2 gallons (8.3 liters) per minute measured at 60 psi.

402.2 Water Closets. Water closets, either flush tank, flushometer tank, or flushometer valve operated, shall have an average consumption of a maximum of 1.6 gallons (6.1 liters) of water per flush.

402.2.1 Water Closets after January 1, 1994 [HCD 1 & HCD 2] Water closets, either flush tank, flushometer tank, or flushometer valve operated sold or installed after January 1, 1994, shall use no more than an average of 1.6 gallons (6.1 liters) of water per flush. See Health and Safety Code Section 17921.3

402.2.2 Water Closets on or after July 1, 2011 [HCD 1 & HCD 2] Water closets, either flush tank, flushometer tank, or flushometer valve operated installed on or after

July 1, 2011, shall have an effective flush volume in compliance with the following:

- (1) **Single Flush Toilets** - The effective flush volume shall not exceed 1.28 gallons (4.8 liters) when tested in accordance with ASME A112.19.2, Standard for Vitreous China Plumbing Fixtures and Hydraulic Fixtures Requirements for Water Closets and Urinals.
- (2) **Dual Flush Toilets** - The effective flush volume shall not exceed 1.28 gallons (4.8 liters) when tested in accordance with ASME A112.19.2, Standard for Vitreous China Plumbing Fixtures and Hydraulic Fixtures Requirements for Water Closets and Urinals, and ASME A112.19.14, Standard for Six-Liter Water Closets Equipped with a Dual Flushing Device.

402.2.2.1 Performance [HCD 1 & HCD 2] Water closets installed on or after July 2, 2011, shall meet or exceed the minimum performance criteria developed for certification of high-efficiency toilets under the WaterSense program sponsored by the U.S. Environmental Protection Agency (EPA).

402.2.2.2 Availability [HCD 1 & HCD 2] Between July 1, 2011, and January 1, 2014, the requirements of Section 402.2.2 may be temporarily suspended on a case by case basis by action of the enforcing agency should such agency determine that an insufficient number of water closets are available.

402.3 Urinals. Urinals shall have an average water consumption of a maximum of 1 gallon (3.8 liters) of water per flush.

402.3.1 Urinals after January 1, 1994 [HCD 1 & HCD 2] Urinals and associated flushometer valves sold or installed after January 1, 1994, shall use no more than an average of one gallon (3.8 liters) per flush. See Health and Safety Code Section 17921.3

402.3.2 Urinals on or after July 1, 2011 [HCD 1 & HCD 2] Urinals and associated flushometer valves sold or installed on or after July 1, 2011, shall use no more than 0.5 gallons (1.9 liters) per flush and meet performance criteria as established in ASME A112.19.2, Standard for Vitreous China Plumbing Fixtures and Hydraulic Fixtures Requirements for Water Closets and Urinals.

402.3.3 Nonwater Supplied Urinals (Waterless Urinals) [HCD 1 & HCD 2] Waterless urinals sold or installed in this state shall comply with all of the following requirements: