CALIFORNIA PLUMBING CODE – MATRIX ADOPTION TABLE CHAPTER 4 - PLUMBING FIXTURES AND FIXTURE FITTINGS

(Matrix Adoption Tables are non-regulatory, intended only as an aid to the code user. See Chapter 1 for state agency authority and building applications.)

Adopting Agency	BSC	BSC-	SFM		HCI)		DSA	١.		os	HPD		BSCC	DPH	AGP	DWP	CEC	CΔ	SL	SLC
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Adopt Entire Chapter																					
Adopt Entire Chapter as amended (amended sec- tions listed below)	X			X	X			X	X	X	X	x	X		X	X			X		
Adopt only those sections that are listed below						X	X							X							
Chapter/Section																					
Note Under Title							X														
401.3	X			X				X	X												
403.1						X															
403.2						X															
407.2.1				X																	
407.2.1.1				X																	
407.2.1.2				X																	
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407.2.2.1		X						X	X												
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408.5 & Exception 1				X																	
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411.2				X	X																
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415.1				X																	
417.1.1		X						X	X												
417.1.2		X						X	X												
420.2.1		X						X	X									-			

CALIFORNIA PLUMBING CODE – MATRIX ADOPTION TABLE CHAPTER 4 - PLUMBING FIXTURES AND FIXTURE FITTINGS (continued)

(Matrix Adoption Tables are non-regulatory, intended only as an aid to the code user. See Chapter 1 for state agency authority and building applications.)

A 1 A	DOC	BSC-	0514		HCI)		DSA			os	HPD		D000	DDI:	405	DWE	050		01	01.0
Adopting Agency	BSC	CG	SFM	1	2	1-AC	AC	ss	ss/cc	1	2	3	4	BSCC	DPH	AGR	DWR	CEC	CA	SL	SLC
Adopt Entire Chapter																					
Adopt Entire Chapter as amended (amended sec- tions listed below)	X			X	X			X	X	X	X	X	X		X	X			X		
Adopt only those sections that are listed below						X	X							X							
Chapter/Section																					
422.1	X			X	X																
Table 422.1	X			X	X	X	X	X	X	X	X	X	X								
Table 422.1 Minimum Plumbing Facilities (Note 7)							X	X	X												
422.1.2										X	X	X	X								
422.2				†	†																
422.2.2 Exception										X	X	X	X		**************************************						
422.4				†	†								***************************************			distribution array					
422.5				†	†																
422.6																			X		
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422.9															X						
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Table 4-2										X	X	X	X								
Table 4-3	X															X					
Table 4-4	X						-								X						

This state agency does not adopt sections identified with the following symbol: †

The Office of the State Fire Marshal's adoption of this chapter or individual sections is applicable to structures regulated by other state agencies pursuant to Section 1.11.

CHAPTER 4

PLUMBING FIXTURES AND FIXTURE FITTINGS

Note: In addition to the requirements of this chapter, buildings or facilities where accessibility is required for applications listed in California Code of Regulations, Title 24, Part 2 (California Building Code), Chapter 1, Section 1.9.1 regulated by the Division of the State Architect—Access Compliance shall also comply with Title 24, Part 2, Chapter 11A or 11B, as applicable under authority cited by CA Government Code Section 4450 and in reference cited by CA Government Code Sections 4450 through 4461, 12955.1(c), and CA Health and Safety Code Sections 18949.1, 19952 through 19959.

401.0 General.

401.1 Applicability. This chapter shall govern the materials and installation of plumbing fixtures, including faucets and fixture fittings, and the minimum number of plumbing fixtures required based on occupancy.

>> 401.2 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 comply with the quality and design of nationally recognized applicable standards referenced in Table 1701.1.

401.3 Water-Conserving Fixtures and Fittings.

Note 1: [BSC, DSA-SS & DSA-SS/CC] Flow rates for specified plumbing fixtures for mandatory nonresidential construction are contained in Chapter 5, Division 5.3 of the California Green Building Standards Code (Part 11, Title 24, California Code of Regulations - CALGreen). Scoping provisions applicable to nonresidential additions and alterations are contained in Section 301.3 of CALGreen.

Note 2: [BSC] On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

[HCD-1] Residential buildings undergoing permitted alterations, additions or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.3, et seq. for the definition of a noncompliant plumbing fixture, types of buildings affected and other subsequent enactment dates.

402.0 Installation.

402.1 Cleaning. Plumbing fixtures shall be installed in a manner to afford easy access for repairs and cleaning. Pipes from fixtures shall be run to the nearest wall.

402.2 Joints. Where a fixture comes in contact with the wall or floor, the joint between the fixture and the wall or floor shall be made watertight.

402.3 Securing Fixtures. Floor-outlet or floor-mounted fixtures shall be rigidly secured to the drainage connection and to the floor, where so designed, by screws or bolts of copper, copper alloy, or other equally corrosion-resistant material.

402.4 Wall-Hung Fixtures. Wall-hung fixtures shall be rigidly supported by metal supporting members so that no strain is transmitted to the connections. Flush tanks and similar appurtenances shall be secured by approved non-corrosive screws or bolts.

402.5 Setting. Fixtures shall be set level and in proper alignment with reference to adjacent walls. No water closet or bidet shall be set closer than 15 inches (381 mm) from its center to a side wall or obstruction nor closer than 30 inches (762 mm) center to center to a similar fixture. The clear space in front of a water closet, lavatory, or bidet shall be not less than 24 inches (610 mm). No urinal shall be set closer than 12 inches (305 mm) from its center to a side wall or partition nor closer than 24 inches (610 mm) center to center.

Exception: The installation of paper dispensers or accessibility grab bars shall not be considered obstructions.

402.6 Flanged Fixture Connections. Fixture connections between drainage pipes and water closets, floor outlet service sinks and urinals shall be made by means of approved copper alloy, hard lead, ABS, PVC, or iron flanges caulked, soldered, solvent cemented; rubber compression gaskets; or screwed to the drainage pipe. The connection shall be bolted with an approved gasket, washer, or setting compound between the fixture and the connection. The bottom of the flange shall be set on an approved firm base.

Wall-mounted water closet fixtures shall be securely bolted to an approved carrier fitting. The connecting pipe between the carrier fitting and the fixture shall be an approved material and designed to accommodate an adequately sized gasket. Gasket material shall be neoprene, felt, or similar approved types.

402.6.1 Closet Rings (Closet Flanges). Closet rings (closet flanges) for water closets or similar fixtures shall be of an approved type and shall be copper alloy, copper, hard lead, cast-iron, galvanized malleable iron, ABS, PVC, or other approved materials. Each such closet ring (closet flange) shall be approximately 7 inches (178 mm) in diameter and, where installed, shall, together with the soil pipe, present a 1½ inch (38 mm) wide flange or face to receive the fixture gasket or closet seal.

Caulked-on closet rings (closet flanges) shall be not less than ¼ of an inch (6.4 mm) thick and not less than 2 inches (51 mm) in overall depth.

Closet rings (closet flanges) shall be burned or soldered to lead bends or stubs, shall be caulked to cast-iron soil pipe, shall be solvent cemented to ABS and PVC, and shall be screwed or fastened in an approved manner to other materials.

Closet bends or stubs shall be cut off so as to present a smooth surface even with the top of the closet ring before rough inspection is called.

Closet rings (closet flanges) shall be adequately designed and secured to support fixtures connected thereto.

402.6.2 Securing Closet Flanges. Closet screws, bolts, washers, and similar fasteners shall be of copper alloy, copper, or other listed, equally corrosion-resistant materials. Screws and bolts shall be of a size and number to properly support the fixture installed.

402.6.3 Securing Floor-Mounted, Back-Outlet Water Closet Bowls. Floor-mounted, back-outlet water closet bowls shall be set level with an angle of 90 degrees (1.57 rad) between the floor and wall at the centerline of the fixture outlet. The floor and wall shall have a flat mounting surface not less than 5 inches (127 mm) to the right and left of the fixture outlet centerline. The fixture shall be secured to the wall outlet flange or drainage connection and to the floor by corrosion-resistant screws or bolts. The closet flange shall be secured to a firm base.

Where floor-mounted, back-outlet water closets are used, the soil pipe shall be not less than 3 inches (80 mm) in diameter. Offset, eccentric, or reducing floor flanges shall not be used.

- **>> 402.7 Supply Fittings.** The supply lines and fittings for every plumbing fixture shall be so installed as to prevent backflow in accordance with Chapter 6.
- **402.8 Installation.** Fixtures shall be installed in accordance with the manufacturer's installation instructions.
- A02.9 Design and Installation of Plumbing Fixtures. Plumbing fixtures shall be installed such that fixture fittings shall be in accordance with the backflow prevention requirements of ASME A112.18.1/CSA B125.1. These requirements shall not be compromised by the designated fixture fitting mounting surface.
- \$\rightarrow\$ 402.10 Slip Joint Connections. Fixtures having concealed slip joint connections shall be provided with an access panel or utility space not less than 12 inches (305 mm) in its least dimension and so arranged without obstructions as to make such connections accessible for inspection and repair.
- **More Provisions are made for the future installation of fixtures, those provided for shall be considered in determining the required sizes of drain and water supply piping. Construction for future installations shall be terminated with a plugged fitting or fittings. Where the plugged fitting is at the point where the trap of a fixture is installed, the plumbing system for such fixture shall be complete and be in accordance with the plumbing requirements of this code.

403.0 Accessible Plumbing Facilities.

403.1 General. Where accessible facilities are required in applicable building regulations, the facilities shall be installed in accordance with those regulations. **[HCD 1-AC]** For specific requirements regarding accommodations for persons with disabilities, see Chapter 11A of the California Building Code.

403.2 Fixtures and Fixture Fittings for Persons with Disabilities. Plumbing fixtures and fixture fittings for persons with disabilities shall comply with the applicable standards referenced in Chapter 4. [HCD 1-AC] Specific requirements regarding accommodations for persons with disabilities are contained in Chapter 11A of the California Building Code.

403.3 Exposed Pipes and Surfaces. Water supply and drain pipes under accessible lavatories and sinks shall be insulated or otherwise be configured to protect against contact. Protectors, insulators, or both shall comply with ASME A112.18.9.

404.0 Overflows.

404.1 General. Where a fixture is provided with an overflow, the waste shall be so arranged that the standing water in the fixture shall not rise in the overflow where the stopper is closed or remain in the overflow where the fixture is empty. The overflow pipe from a fixture shall be connected on the house or inlet side of the fixture trap, except that overflow on flush tanks shall be permitted to discharge into the water closets or urinals served by them, but it shall be unlawful to connect such overflows with any other part of the drainage system.

405.0 Prohibited Fixtures.

405.1 Prohibited Water Closets. Water closets having an **\(\)** invisible seal or an unventilated space or having walls which are not thoroughly washed at each discharge shall be prohibited. A water closet that might permit siphonage of the contents of the bowl back into the tank shall be prohibited.

405.2 Prohibited Urinals. Trough urinals and urinals with **44** an invisible seal shall be prohibited.

405.3 Miscellaneous Fixtures. Fixed wooden, or tile wash **≮** trays or sinks for domestic use shall not be installed in a building designed or used for human habitation. No sheet metallined wooden bathtub shall be installed or reconnected. No dry or chemical closet (toilet) shall be installed in a building used for human habitation, unless first approved by the Health Officer.

406.0 Special Fixtures and Specialties.

406.1 Water and Waste Connections. Baptisteries, ornamental and lily ponds, aquaria, ornamental fountain basins, and similar fixtures and specialties requiring water, waste connections, or both shall be submitted for approval to the Authority Having Jurisdiction prior to installation.

406.2 Special Use Sinks. Restaurant kitchen and other special use sinks shall be permitted to be made of approved-type

bonderized and galvanized sheet steel of not less than No. 16 U.S. gauge (0.0625 inches) (1.6 mm). Sheet-metal plumbing fixtures shall be adequately designed, constructed, and braced in an approved manner to accomplish their intended purpose.

- **>> 406.3 Special Use Fixtures.** Special use fixtures shall be made of one of the following:
 - (1) Soapstone
 - (2) Chemical stoneware
 - (3) Copper-based alloy
 - (4) Nickel-based alloy
 - (5) Corrosion-resistant steel
 - (6) Other materials suited for the intended use of the fixture
- **>>> 406.4 Zinc Alloy Components.** Zinc alloy components shall comply with applicable nationally recognized standards and shall be used in accordance with their listing.

407.0 Lavatories.

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407.1 Application. Lavatories shall comply with ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, ASME A112.19.12, CSA B45.5/IAPMO Z124, or CSA B45.11/IAPMO Z401.

407.2 Water Consumption. The maximum water flow rate of faucets shall comply with Section 407.2.1 through Section 407.2.2.1.

407.2.1 Maximum Flow Rate. The maximum flow rate for public lavatory faucets shall not exceed 0.5 gpm at 60 psi (1.9 L/m at 414 kPa).

407.2.1.1 Kitchen Faucets. [HCD 1] The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons (6.81 L) per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons (8.32 L) per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons (6.81 L) per minute at 60 psi.

Note: Where faucets meeting the maximum flow rate of 1.8 gpm (6.81 L) are unavailable, aerators or other means may be used to achieve reduction.

407.2.1.2 Residential Lavatory Faucets. [HCD 1] The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons (4.54 L) per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons (3.03 L) per minute at 20 psi.

407.2.1.3 Lavatory Faucets in Common and Public Use Areas. [HCD 1 & HCD 2] The maximum flow rate of lavatory faucets, installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings, shall not exceed 0.5 gallons (1.89 L) per minute at 60 psi.

407.2.2 Metering Faucets. Metered faucets shall deliver a maximum of 0.25 gallons (1.0 L) per metering cycle in accordance with ASME A112.18.1/CSA B125.1.

407.2.2.1 Metering Faucets. [BSC-CG] [DSA-SS & DSA-SS/CC] Metering Faucets shall not deliver more than 0.20 gallons (0.76 L) per cycle in com-

pliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).

407.3 Limitation of Hot Water Temperature for Public **(Lavatories.** Hot water delivered from public-use lavatories shall be limited to a maximum temperature of 120°F (49°C) by a device that is in accordance with ASSE 1070 or CSA B125.3. The water heater thermostat shall not be considered a control for meeting this provision.

407.4 Transient Public Lavatories. Self-closing or metering faucets shall be installed on lavatories intended to serve the transient public, such as those in, but not limited to service stations, train stations, airports, restaurants, and convention halls.

407.5 Waste Outlet. Lavatories shall have a waste outlet and fixture tailpiece not less than $1\frac{1}{4}$ inches (32 mm) in diameter. Continuous wastes and fixture tailpieces shall be constructed from the materials specified in Section 701.4. Waste outlets shall be provided with an approved stopper or strainer.

407.6 Overflow. Overflows shall be installed in accordance with Section 404.1.

408.0 Showers.

408.1 Application. Manufactured shower receptors and shower bases shall comply with ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124.

408.2 Water Consumption. [HCD 1] Showerheads shall have a maximum flow rate of 2.0 gallons (7.57 L) per minute measured at 80 psi and must comply with Division 4.3 of the California Green Building Standards Code (CALGreen).

408.2.1 Single Showerhead. [BSC-CG] [DSA-SS & DSA-SS/CC] Showerheads shall have a maximum flow rate of not more than 2.0 gallons (7.57 L) per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads in compliance with Chapter 5, Division 5.3. of the California Green Building Standards Code (CALGreen).

408.2.2 Multiple Showerheads Serving One Shower. [BSC-CG] [DSA-SS & DSA-SS/CC] When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons (7.57 L) per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time in compliance with Chapter 5, Division 5.3. of the California Green Building Standards Code (CALGreen).

Note: A hand-held shower shall be considered a showerhead.

408.3 Individual Shower and Tub-Shower Combination Control Valves. Showers and tub-shower combinations shall be provided with individual control valves of the pressure balance, thermostatic, or combination pressure balance/thermostatic mixing valve type that provide scald and thermal shock

protection for the rated flow rate of the installed showerhead. These valves shall be installed at the point of use and in accordance with ASSE 1016 or ASME A112.18.1/CSA B125.1. Gang showers, where supplied with a single temperature-controlled water supply pipe, shall be controlled by a mixing valve that is in accordance with ASSE 1069. Handle position stops shall be provided on such valves and shall be adjusted per the manufacturer's instructions to deliver a maximum mixed water setting of 120°F (49°C). Water heater thermostats shall not be considered a suitable control for meeting this provision.

408.4 Waste Outlet. Showers shall have a waste outlet and fixture tailpiece not less than 2 inches (50 mm) in diameter. Fixture tailpieces shall be constructed from the materials specified in Section 701.2 for drainage piping. Strainers serving shower drains shall have a waterway at least equivalent to the area of the tailpiece.

408.5 Finished Curb or Threshold. Where a shower receptor has a finished dam, curb, or threshold it shall be not less than 1 inch (25.4 mm) lower than the sides and back of such receptor. In no case shall a dam or threshold be less than 2 inches (51 mm) or exceeding 9 inches (229 mm) in depth where measured from the top of the dam or threshold to the top of the drain. Each such receptor shall be provided with an integral nailing flange to be located where the receptor meets the vertical surface of the finished interior of the shower compartment. The flange shall be watertight and extend vertically not less than 1 inch (25.4 mm) above the top of the sides of the receptor. The finished floor of the receptor shall slope uniformly from the sides towards the drain not less than ½ inch per foot (20.8 mm/m), nor more than ½ inch per foot (41.8 mm/m).

Thresholds shall be of sufficient width to accommodate a minimum 22 inch (559 mm) door. Shower doors shall open so as to maintain not less than a 22 inch (559 mm) unobstructed opening for egress. The immediate adjoining space to showers without thresholds shall be considered a wet location and shall comply with the requirements of the *California Building, California Residential and California Electrical Codes*.

Exceptions:

- (1) Showers that are designed to be in accordance with the accessibility standards in Chapter 11A of the California Building Code. [HCD 1-AC] Specific requirements regarding accommodations for persons with disabilities are contained in Chapter 11A of the California Building Code.
- (2) A cast-iron shower receptor flange shall be not less than 0.3 of an inch (7.62 mm) in height.
- (3) For flanges not used as a means of securing, the sealing flange shall be not less than 0.3 of an inch (7.62 mm) in height.

408.6 Shower Compartments. Shower compartments, regardless of shape, shall have a minimum finished interior of 1024 square inches (0.6606 m²) and shall also be capable of encompassing a 30 inch (762 mm) circle. The minimum required area and dimensions shall be measured at a height equal to the top of the threshold and at a point tangent to its centerline. The area and dimensions shall be maintained to a

point of not less than 70 inches (1778 mm) above the shower drain outlet with no protrusions other than the fixture valve or valves, showerheads, soap dishes, shelves, and safety grab bars, or rails. Fold-down seats in accessible shower stalls shall be permitted to protrude into the 30 inch (762 mm) circle.

Exceptions:

- (1) Showers that are designed to comply with *Chapter 11A* | of the California Building Code.
- (2) The minimum required area and dimension shall not apply for a shower receptor having overall dimensions of not less than 30 inches (762 mm) in width and 60 inches (1524 mm) in length.
- (3) [HCD 1-AC] Specific requirements regarding accommodations for persons with disabilities are contained in Chapter 11A of the California Building Code.

408.7 Lining for Showers and Receptors. Shower receptors built on-site shall be watertight and shall be constructed from approved-type dense, nonabsorbent, and noncorrosive materials. Each such receptor shall be adequately reinforced, shall be provided with an approved flanged floor drain designed to make a watertight joint in the floor, and shall have smooth, impervious, and durable surfaces.

Shower receptors shall have the subfloor and rough side of walls to a height of not less than 3 inches (76 mm) above the top of the finished dam or threshold shall be first lined with sheet plastic, lead, or copper, or shall be lined with other durable and watertight materials. Showers that are provided with a built in place, permanent seat or seating area that is located within the shower enclosure, shall be first lined with sheet plastic, lead, copper, or shall be lined with other durable and watertight materials that extend not less than 3 inches (76 mm) above horizontal surfaces of the seat or the seating area.

Lining materials shall be pitched ½ inch per foot (20.8 mm/m) to weep holes in the subdrain of a smooth and solidly formed subbase. Such lining materials shall extend upward on the rough jambs of the shower opening to a point not less than 3 inches (76 mm) above the horizontal surfaces of the seat or the seating area, the top of the finished dam or threshold and shall extend outward over the top of the permanent seat, permanent seating area, or rough threshold and be turned over and fastened on the outside face of both the permanent seat, permanent seating area, or rough threshold and the jambs.

Nonmetallic shower subpans or linings shall be permitted to be built up on the job site of not less than three layers of standard grade 15 pound (6.8 kg) asphalt-impregnated roofing felt. The bottom layer shall be fitted to the formed subbase and each succeeding layer thoroughly hot-mopped to that below. Corners shall be carefully fitted and shall be made strong and watertight by folding or lapping, and each corner shall be reinforced with suitable webbing hot-mopped in place.

Folds, laps, and reinforcing webbing shall extend not less than 4 inches (102 mm) in all directions from the corner, and webbing shall be of approved type and mesh, producing a tensile strength of not less than 50 pounds per square foot (lb/ft²) (244 kg/m²) in either direction. Nonmetallic shower subpans or linings shall be permitted to consist of multilayers of other approved equivalent materials suitably reinforced and carefully fitted in place on the job site as elsewhere required in this section.

Linings shall be properly recessed and fastened to approved backing so as not to occupy the space required for the wall covering, and shall not be nailed or perforated at a point that is less than 1 inch (25.4 mm) above the finished dam or threshold. An approved-type subdrain shall be installed with a shower subpan or lining. Each such subdrain shall be of the type that sets flush with the subbase and shall be equipped with a clamping ring or other device to make a tight connection between the lining and the drain. The subdrain shall have weep holes into the waste line. The weep holes located in the subdrain clamping ring shall be protected from clogging.

408.7.1 PVC Sheets. Plasticized polyvinyl chloride (PVC) sheets shall comply with ASTM D4551. Sheets shall be joined by solvent cementing in accordance with the manufacturer's installation instructions.

408.7.2 Chlorinated Polyethylene (CPE) Sheets. Non-plasticized chlorinated polyethylene sheets shall comply with ASTM D4068. The liner shall be joined in accordance with the manufacturer's installation instructions.

408.7.3 Sheet Lead. Sheet lead shall weigh not less than 4 lb/ft² (19 kg/m²) and shall be coated with an asphalt paint or other approved coating. The lead sheet shall be insulated from conducting substances, other than the connecting drain, by 15 pound (6.8 kg) asphalt felt or an equivalent. Sheet lead shall be joined by burning.

408.7.4 Sheet Copper. Sheet copper shall comply with ASTM B152 and shall weigh not less than 12 ounces per square foot (oz/ft²) (3.7 kg/m²) or No. 24 B & S Gauge (0.02 inches) (0.51 mm). The copper sheet shall be insulated from conducting substances, other than the connecting drain, by 15 pound (6.8 kg) asphalt felt or an equivalent. Sheet copper shall be joined by brazing or soldering.

408.7.5 Tests for Shower Receptors. Shower receptors shall be tested for watertightness by filling with water to the level of the rough threshold. The test plug shall be so placed that both upper and under sides of the subpan shall be subjected to the test at the point where it is clamped to the drain.

408.8 Public Shower Floors. Floors of public shower rooms shall have a nonskid surface and shall be drained in such a manner that wastewater from one bather shall not pass over areas occupied by other bathers. Gutters in public or gang shower rooms shall have rounded corners for easy cleaning and shall be sloped not less than 2 percent toward drains. Drains in gutters shall be spaced at a maximum of 8 feet (2438 mm) from sidewalls nor more than 16 feet (4877 mm) apart.

408.9 Location of Valves and Heads. Control valves and showerheads shall be located on the sidewall of shower compartments or otherwise arranged so that the showerhead does

not discharge directly at the entrance to the compartment so that the bather can adjust the valves prior to stepping into the shower spray.

408.10 Water Supply Riser. A water supply riser from the shower valve to the showerhead outlet, whether exposed or not, shall be securely attached to the structure.

409.0 Bathtubs and Whirlpool Bathtubs.

409.1 Application. Bathtubs shall comply with ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124. Whirlpool bathtubs shall comply with ASME A112.19.7/CSA B45.10. Pressure sealed doors within a bathtub or whirlpool bathtub enclosure shall comply with ASME A112.19.15.

409.2 Waste Outlet. Bathtubs and whirlpool bathtubs shall have a waste outlet and fixture tailpiece not less than $1\frac{1}{2}$ inches (40 mm) in diameter. Fixture tailpieces shall be constructed from the materials specified in Section 701.2 for drainage piping. Waste outlets shall be provided with an approved stopper or strainer.

409.3 Overflow. Overflows shall be installed in accordance with Section 404.1.

409.4 Limitation of Hot Water in Bathtubs and Whirlpool Bathtubs. The maximum hot water temperature discharging from the bathtub and whirlpool bathtub filler shall be limited to 120°F (49°C) by a device that is in accordance with ASSE 1070 or CSA B125.3. The water heater thermostat shall not be considered a control for meeting this provision.

409.5 Backflow Protection. The water supply to a bathtub and whirlpool bathtub filler valve shall be protected by an air gap or in accordance with Section 417.0.

409.6 Installation and Access. Bathtubs and whirlpool bathtubs shall be installed in accordance with the manufacturer's installation instructions. Access openings shall be of size and opening to permit the removal and replacement of the circulation pump.

Whirlpool pump access located in the crawl space shall be located not more than 20 feet (6096 mm) from an access door, trap door, or crawl hole.

The circulation pump shall be located above the crown weir of the trap.

The pump and the circulation piping shall be self-draining to minimize water retention. Suction fittings on whirlpool bathtubs shall be listed in accordance with ASME A112.19.7/CSA B45.10.

409.6.1 Flexible PVC Hoses and Tubing. Flexible PVC hoses and tubing intended to be used on whirlpool bathtub water circulation systems or pneumatic systems shall be in accordance with IAPMO Z1033.

410.0 Bidets.

410.1 Application. Bidets shall comply with ASME A112.19.2/CSA B45.1 or ASME A112.19.3/CSA B45.4.

410.2 Backflow Protection. The water supply to the bidet shall be protected by an air gap or in accordance with Section 603.3.2, Section 603.3.5, or Section 603.3.6.

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410.3 Limitation of Water Temperature in Bidets. The maximum hot water temperature discharging from a bidet shall be limited to 110°F (43°C) by a device that is in accordance with ASSE 1070 or CSA B125.3. The water heater thermostat shall not be considered a control for meeting this provision.

411.0 Water Closets.

- 411.1 Application. Water closets shall comply with ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124. Water closet bowls for public use shall be of the elongated type. In nurseries, schools, and other similar places where plumbing fixtures are provided for the use of children less than 6 years of age, water closets shall be of a size and height suitable for children's use.
- water closets shall not exceed 1.28 gallons (4.8 L) per flush when tested in accordance with ASME A112.19.2/CSA B45.1
 - 411.2.1 Dual Flush Water Closets. Dual flush water closets shall comply with ASME A112.19.14. The effective flush volume for dual flush water closets shall be defined as the composite, average flush volume of two reduced flushes and one full flush.
 - 411.2.2 Performance. [HCD 1 & HCD 2] Water closets installed 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).
 - 411.2.3 Flushometer Valve Activated Water Closets. Flushometer valve activated water closets shall have a maximum flush volume of 1.6 gallons (6.0 Lpf) of water per flush in accordance with ASME A112.19.2/CSA B45.1.
 - 411.2.3.1 Flushometer Valve Activated Water Closets. [BSC-CG] [DSA-SS & DSA-SS/CC] Flushometer valve activated water closets shall have a maximum flush volume of 1.28 gallons (4.8 Lpf) per flush in accordance with ASME A112.19.2/CSA B45.1.
 - 411.2.4 Water Closets. [BSC-CG] [DSA-SS & DSA-SS/CCJ The effective flush volume of all water closets shall not exceed 1.28 gallons(4.8 L) per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets in compliance with Chapter 5, Division 5.3. of the California Green Building Standards Code (CAL-
- 3 411.3 Water Closet Seats. Water closet seats shall be properly sized for the water closet bowl type, and shall be of smooth, non-absorbent material. Seats, for public use, shall be of the elongated type and either of the open front type or have am automatic seat cover dispenser. Plastic seats shall comply with IAPMO Z124.5.

412.0 Urinals.

412.1 Application Urinals shall comply with ASME A112.19.2/CSA B45.1, ASME A112.19.19, or CSA B45.5/IAPMO Z124. Wall mounted urinals shall have an

average water consumption not to exceed 0.125 gallons (0.47 L) per flush. Other urinals shall have an average water consumption not to exceed 0.5 gallons (1.89 L) per flush.

- 412.1.1 Wall Mounted Urinals. [BSC-CG] [DSA-SS & DSA-SS/CCJ The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons (0.47 L) per flush in compliance with Chapter 5, Division 5.3, of the California Green Building Standards Code [CALGreen].
- 412.1.2 Floor Mounted Urinals. [BSC-CG] [DSA-SS & DSA-SS/CC] The effective flush volume of floor mounted or other urinals shall not exceed 0.5 gallons (1.89 L) per flush in compliance with Chapter 5, Division 5.3, of the California Green Building Standards Code [CALGreen].
- 412.1.3 Nonwater Urinals. Nonwater urinals shall have a barrier liquid sealant to maintain a trap seal. Nonwater urinals shall permit the uninhibited flow of waste through the urinal to the sanitary drainage system. Nonwater urinals shall be cleaned and maintained in accordance with the manufacturer's instructions after installation. Where nonwater urinals are installed, not less than one water supplied fixture rated at not less than 1 water supply fixture unit (WSFU) shall be installed upstream on the same drain line to facilitate drain line flow and rinsing. Where nonwater urinals are installed they shall have a water distribution line rough-in to the urinal location to allow for the installation of an approved backflow prevention device in the event of a retrofit. For additional information, see Health and Safety Code Section 17921.4.
- **412.2 Backflow Protection.** A water supply to a urinal shall be protected by an approved-type vacuum breaker or other approved backflow prevention device in accordance with Section 603.5.

413.0 Flushing Devices.

- 413.1 Where Required. Each water closet, urinal, clinical sink. or other plumbing fixture that depends on trap siphonage to discharge its waste contents shall be provided with a flushometer valve, flushometer tank, or flush tank designed and installed so as to supply water in sufficient quantity and rate of flow to flush the contents of the fixture to which it is connected, to cleanse the fixture, and to refill the fixture trap, without excessive water use. Flushing devices shall comply with the antisiphon requirements in accordance with Section 603.5.
- 413.2 Flushometer Valves. Flushometer valves and tanks shall comply with ASSE 1037 or CSA B125.3, and shall be installed in accordance with Section 603.5.1. No manually controlled flushometer valve shall be used to flush more than one urinal, and each such urinal flushometer valve shall be an approved, self-closing type discharging a predetermined quantity of water. Flushometers shall be installed so that they will be accessible for repair. Flushometer valves shall not be used where the water pressure is insufficient to properly operate them. Where the valve is operated, it shall complete the cycle of operation automatically, opening fully, and closing



positively under the line water pressure. Each flushometer shall be provided with a means for regulating the flow through it. [OSPHD 1, 2, 3 & 4] Sensor operated flush valves shall be capable of functioning during loss of normal power.

413.3 Flush Tanks. Flush tanks for manual flushing shall be equipped with a flush valve in accordance with ASME A112.19.5/CSA B45.15 or CSA B125.3, and an antisiphon fill valve (ballcock) that is in accordance with ASSE 1002 or CSA B125.3 and installed in accordance with Section 603.5.2.

413.4 Water Supply for Flush Tanks. An adequate quantity of water shall be provided to flush and clean the fixture served. The water supply for flushing tanks and flushometer tanks equipped for manual flushing shall be controlled by a float valve or other automatic device designed to refill the tank after each discharge and to completely shut off the water flow to the tank where the tank is filled to operational capacity. Provision shall be made to automatically supply water to the fixture so as to refill the trap seal after each flushing.

413.5 Overflows in Flush Tanks. Flush tanks shall be provided with overflows discharging into the water closet or urinal connected thereto. Overflows supplied as original parts with the fixture shall be of sufficient size to prevent tank flooding at the maximum rate at which the tank is supplied with water under normal operating conditions and where installed in accordance with the manufacturer's installation instructions.

414.0 Dishwashing Machines.

414.1 Application. Domestic dishwashing machines shall comply with UL 749. Commercial dishwashing machines shall comply with NSF 3 and UL 921.

414.2 Backflow Protection. The water supply connection to a commercial dishwashing machine shall be protected by an air gap or a backflow prevention device in accordance with Section 603.3.2, Section 603.3.5, Section 603.3.6, or ASSE 1004.

414.3 Drainage Connection. Domestic dishwashing machines shall discharge indirectly through an air gap fitting in accordance with Section 807.3 into a waste receptor, a wye branch fitting on the tailpiece of a kitchen sink, or dishwasher connection of a food waste disposer. Commercial dishwashing machines shall discharge indirectly through an air gap or direct connection in accordance with Section 704.3 with floor drain protection.

415.0 Drinking Fountains.

415.1 Application. Drinking fountains shall be self-closing and comply with ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, or ASME A112.19.3/CSA B45.4, and NSF 61. Permanently installed electric water coolers shall also comply with UL 399. [FFCD 1] Drinking fountains shall be installed and so regulated that a jet of water extending at least 2 inches (51 mm) in height from the water orifice shall be constantly available. The orifice shall not be accessible to the mouth of the drinker nor subject to immersion.

415.2 Drinking Fountain Alternatives. Where food is consumed indoors, water stations shall be permitted to be sub-

stituted for drinking fountains. Bottle filling stations shall be permitted to be substituted for drinking fountains up to 50 percent of the requirements for drinking fountains. Drinking fountains shall not be required for an occupant load of 30 or less.

415.3 Drainage Connection. Drinking fountains shall be permitted to discharge directly into the drainage system or indirectly through an air break in accordance with Section 809.1.

415.4 Location. Drinking fountains shall not be installed in toilet rooms.

416.0 Emergency Eyewash and Shower Equipment.

416.1 Application. Emergency eyewash and shower equipment shall comply with ISEA Z358.1.

416.2 Water Supply. Emergency eyewash and shower equipment shall not be limited in the water supply flow rates. Flow rate, discharge pattern, and temperature of flushing fluids shall be provided in accordance with ISEA Z358.1 based on the hazardous material.

416.3 Installation. Emergency eyewash and shower equipment shall be installed in accordance with the manufacturer's installation instructions.

416.4 Location. Emergency eyewash and shower equipment shall be located on the same level as the hazard and accessible for immediate use. The path of travel shall be free of obstructions and shall be clearly identified with signage.

416.5 Drain. A drain shall not be required for emergency eyewash or shower equipment. Where a drain is provided, the discharge shall be in accordance with Section 811.0.

417.0 Faucets and Fixture Fittings.

417.1 Application. Faucets and fixture fittings shall comply with ASME A112.18.1/CSA B125.1. Fixture fittings covered under the scope of NSF 61 shall be in accordance with the requirements of NSF 61.

417.1.1 Wash Fountains. [BSC-CG] [DSA-SS & DSA-SS/CC] Wash fountains shall have a maximum flow rate of not more than 1.8 gallons (6.8 L) per minute/20 [rim space (inches) at 60 psi] in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).

417.1.2 Metering Faucets for Wash Fountains. [BSC-CG] [DSA-SS & DSA-SS/CC] Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons (0.76 L) per cycle/20 [rim space (inches) at 60 psi] in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).

417.2 Deck Mounted Bath/Shower Valves. Deck mounted bath/shower transfer valves with integral backflow protection shall comply with ASME A112.18.1/CSA B125.1. This shall include handheld showers and other bathing appliances mounted on the deck of bathtubs or other bathing appliances that incorporate a hose or pull out feature.

417.3 Handheld Showers. Handheld showers shall comply with ASME A112.18.1/CSA B125.1. Handheld showers with

integral backflow protection shall comply with ASME A112.18.1/CSA B125.1 or shall have a backflow prevention device that is in accordance with ASME A112.18.3 or ASSE 1014.

417.4 Faucets and Fixture Fittings with Hose Connected Outlets. Faucets and fixture fittings with pull out spout shall comply with ASME A112.18.1/CSA B125.1. Faucets and fixture fittings with pull out spouts with integral backflow protection shall comply with ASME A112.18.1/CSA B125.1 or shall have a backflow preventer device that is in accordance with ASME A112.18.3.

417.5 Separate Controls for Hot and Cold Water. Where two separate handles control the hot and cold water, the left-hand control of the faucet where facing the fixture fitting outlet shall control the hot water. Faucets and diverters shall be connected to the water distribution system so that hot water corresponds to the left side of the fixture fitting.

Single-handle mixing valves installed in showers and tub-shower combinations shall have the flow of hot water correspond to the markings on the fixture fitting.

418.0 Floor Drains.

418.1 Application. Floor drains shall comply with ASME A112.3.1, ASME A112.6.3, or CSA B79.

418.2 Strainer. Floor drains shall be considered plumbing fixtures, and each such drain shall be provided with an approved-type strainer having a waterway equivalent to the area of the tailpiece. Floor drains shall be of an approved type and shall provide a watertight joint in the floor.

418.3 Location of Floor Drains. Floor drains shall be installed in the following areas:

- (1) Toilet rooms containing two or more water closets or a combination of one water closet and one urinal, except in a dwelling unit.
- (2) Commercial kitchens and in accordance with Section 704.3.
- (3) Laundry rooms in commercial buildings and common laundry facilities in multi-family dwelling buildings.
- (4) Boiler rooms.

418.4 Food Storage Areas. Where drains are provided in storerooms, walk-in freezers, walk-in coolers, refrigerated equipment, or other locations where food is stored, such drains shall have indirect waste piping. Separate waste pipes shall be run from each food storage area, each with an indirect connection to the building sanitary drainage system. Traps shall be provided in accordance with Section 801.3.2 of this code and shall be vented.

Indirect drains shall be permitted to be located in freezers or other spaces where freezing temperatures are maintained, provided that traps, where supplied, shall be located where the seal will not freeze. Otherwise, the floor of the freezer shall be sloped to a floor drain located outside of the storage compartment.

418.5 Floor Slope. Floors shall be sloped to floor drains.

419.0 Food Waste Disposers.

419.1 Application. Food waste disposal units shall comply with UL 430. Residential food waste disposers shall also comply with ASSE 1008.

419.2 Drainage Connection. Approved wye or other directional-type branch fittings shall be installed in continuous wastes connecting or receiving the discharge from a food waste disposer. No dishwasher drain shall be connected to a sink tailpiece, continuous waste, or trap on the discharge side of a food waste disposer.

419.3 Water Supply. A cold water supply shall be provided for food waste disposers. Such connection to the water supply shall be protected by an air gap or backflow prevention device in accordance with Section 603.2.

420.0 Sinks.

420.1 Application. Sinks shall comply with ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124. Moveable sink systems shall comply with ASME A112.19.12.

420.2 Water Consumption. Sink faucets shall have a maximum flow rate of not more than 2.2 gpm at 60 psi (8.3 L/m at 414 kPa) in accordance with ASME A112.18.1/CSA B125.1.

Exceptions:

- (1) Clinical sinks
- (2) Laundry trays
- (3) Service sinks

420.2.1 Kitchen Faucets. [BSC-CG] [DSA-SS & DSA-SS/CC] Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons (6.8 L) per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons (8.3 L) per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons (6.8 L) per minute at 60 psi in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).

420.3 Pre-Rinse Spray Valve. Commercial food service prerinse spray valves shall have a maximum flow rate of 1.6 gallons per minute (gpm) at 60 pounds-force per square inch (psi) (6.0 L/m at 414 kPa) in accordance with ASME A112.18.1/CSAB125.1 and shall be equipped with an integral automatic shutoff.

420.4 Waste Outlet. Kitchen and laundry sinks shall have a **44** waste outlet and fixture tailpiece not less than $1\frac{1}{2}$ inches (40 mm) in diameter. Service sinks shall have a waste outlet and fixture tailpiece not less than 2 inches (50 mm) in diameter. Fixture tailpieces shall be constructed from the materials specified in Section 701.2 for drainage piping. Waste outlets shall be provided with an approved strainer.

421.0 Floor Sinks.

421.1 Application. Floor sinks shall comply with ASME A112.6.7.

421.2 Strainers. The waste outlet of a floor sink shall be provided with an approved strainer or grate that is removable and accessible.

422.0 Minimum Number of Required Fixtures.

422.1 Fixture Count. Plumbing fixtures shall be provided for the type of building occupancy and in the minimum number shown in Table 422.1. [OSHPD 1,2,3 & 4] and Table 4-2 The total occupant load and occupancy classification shall be determined in accordance with the California Building Code. Occupancy classification not shown in Table 422.1 shall be considered separately by the Authority Having Jurisdiction.

The minimum number of fixtures shall be calculated at 50 percent male and 50 percent female based on the total occupant load. Where information submitted indicates a difference in distribution of the sexes such information shall be used in order to determine the number of fixtures for each sex. Once the occupancy load and occupancy are determined, Table 422.1 shall be applied to determine the minimum number of plumbing fixtures required. Where applying the fixture ratios in Table 422.1 results in fractional numbers, such numbers shall be rounded to the next whole number. For multiple occupancies, fractional numbers shall be first summed and then rounded to the next whole number.

- **422.1.1 Family or Assisted-Use Toilet and Bathing Facilities.** Where family or assisted-use toilet and bathing rooms are required, in applicable building regulations, the facilities shall be installed in accordance with those regulations.
- 422.1.2 [DSA-AC] Effective January 1, 1990, in new construction and those existing facilities which occupancy type are listed in Tables 422.1 and 4-4 for public use, which apply for permit to undertake construction, structural alterations, repairs or improvement which exceed 50 percent of the square footage of the entire facility, shall install water closets, urinals, lavatories and drinking fountains as stipulated in Tables 422.1 and 4-4 for public use. Community and/or municipal parks with a bleacher capacity not exceeding 500 seats shall be exempt from the requirements of this section and Tables 422.1 and 4-4. Each bathroom shall comply with Part 2, Chapter 11A and 11B of the California Building Code.
- **422.2 Separate Facilities.** Separate toilet facilities shall be provided for each sex.

|| Exceptions: [Not adopted for OSHPD 1, 2, 3 & 4]

- (1) Residential installations.
- (2) In occupancies with a total occupant load of 10 or less, including customers and employees, one toilet facility, designed for use by no more than one person at a time, shall be permitted for use by both sexes.
- (3) In business and mercantile occupancies with a total occupant load of 50 or less including customers and employees, one toilet facility, designed for use by no more than one person at a time, shall be permitted for use by both sexes.
 - **422.2.1 Family or Assisted-Use Toilet Facilities.** Where a separate toilet facility is required for each sex, and each toilet facility is required to have only one water closet, two family or assisted-use toilet facilities shall be permitted in place of the required separate toilet facilities.

422.2.2 [OSHPD 1, 2, 3 & 4] Separate toilet facilities shall be provided for the use of patients, staff personnel and visitors.

Exception for Primary Care Clinics only: Where a facility contains no more than three examination and/or treatment rooms, the patient toilet shall be permitted to serve waiting areas.

422.3 Fixture Requirements for Special Occupancies. Additional fixtures shall be permitted to be required where unusual environmental conditions or referenced activities are encountered. In food preparation areas, fixture requirements shall be permitted to be dictated by health codes.

422.4 Toilet Facilities Serving Employees and Customers. Each building or structure shall be provided with toilet facilities for employees and customers. Requirements for customers and employees shall be permitted to be met with a single set of restrooms accessible to both groups.

Required toilet facilities for employees and customers located in shopping malls or centers shall be permitted to be met by providing a centrally located toilet facility accessible to several stores. The maximum travel distance from entry to any store to the toilet facility shall not exceed 300 feet (91 440 mm).

Required toilet facilities for employees and customers in other than shopping malls or centers shall have a maximum travel distance not to exceed 500 feet (152 m).

- **422.4.1** Access to Toilet Facilities. In multi-story buildings, accessibility to the required toilet facilities shall not exceed one vertical story. Access to the required toilet facilities for customers shall not pass through areas designated as for employee use only such as kitchens, food preparation areas, storage rooms, closets, or similar spaces. Toilet facilities accessible only to private offices shall not be counted to determine compliance with this section.
- **422.5 Toilet Facilities for Workers.** Toilet facilities shall be provided and maintained in a sanitary condition for the use of workers during construction.
- **422.6 [CA] Cosmetology.** Each school shall provide public toilet rooms for each sex on the licensed premises in accordance with the California Plumbing Code, Table 422.1.
- **422.7** [CA] Cosmetology Establishments. Each establishment where hairdressing services are performed shall provide at least one public toilet room located on the premises in accordance with the California Plumbing Code, Table 422.1.
- 422.8 [DHS] Commissaries Serving Mobile Food Preparation Units. Commissaries serving mobile food preparation units shall have at least one hose bib. The hose bib shall be supplied with hot and cold water and be provided with a single spout, a backflow-preventer device and shall be located on the premises of the establishment.
- 422.9 [DPH] Employee Lavatories in Food Establishments. Employee lavatories installed in food establishments shall be equipped with an approved single spout capable of providing tempered (100°F 115°F) (37.8°C 46.1°C) running water.

Note: This requirement applies only to commissaries serving mobile food preparation units.

TABLE 422.1 MINIMUM PLUMBING FACILITIES¹

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department Having Jurisdicli tion⁷. Table 422.1 applies to new buildings, additions to a building, and changes of occupancy or type in an existing building resulting in increased occupant load.

For requirements for persons with disabilities, Chapter 11A or 11B of the California Building Code shall be used.

The total occupant load shall be determined in accordance with the [BSC, DSA-SS & DSA-SS/CC] Occupant Load Factor Table A.

Exceptions:

- (1) [HCD 1-AC & HCD 2] For applications listed in Sections 1.8.2.1.2 and 1.8.2.1.3 regulated by the Department of Housing and Community Development, each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department. Covered multifamily dwellings required to be accessible to persons with disabilities shall comply with Chapter 11A of the California Building Code. Permanent buildings in mobilehome parks and special occupancy parks required to be accessible by persons with disabilities, shall comply with Chapter 11B of the California Building Code.
- (2) [HCD 1] For limited density owner-built rural dwelling sanitary facilities, the type, design and number of facilities as required and approved by the local health official shall be provided to the dwelling sites. It shall not be required that such facilities be located within the dwelling.

TYPE OF OCCUPANCY ²		CLOSETS ER PERSON) ³	URINALS (FIXTURES PER PERSON) ⁴		TORIES ER PERSON) ^{5, 6}	BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/ FACILITIES (FIXTURES PER PERSON)	OTHER
A-1 Assembly occu- pancy (fixed or perma- nent seating)- theatres, concert halls and audito- riums	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-200 2: 201-300 3: 301-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-600 4: 601-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750	_	1: 1-250 2: 251-500 3: 501-750	l service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 125 females.		Over 600, add 1 fixture for each additional 300 males.	Over 750, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.			Over 750, add 1 fixture for each additional 500 persons.	laundry tray
A-2 Assembly occu- pancy- restaurants, pubs, lounges, night clubs and banquet halls	Male 1: 1-25 1: 1-50 2: 26-50 2: 51-150 3: 51-100 3: 151-300 4: 101-200 4: 301-400 6: 201-300 8: 301-400		Male 1: 1-200 2: 201-300 3: 301-400 4: 401-600	Male 1: 1-150 2: 151-200 3: 201-400	Female 1: 1-150 2: 151-200 4: 201-400	_	1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	for each ad males and	add 1 fixture ditional 250 1 fixture for females.	Over 600, add 1 fixture for each additional 300 males.	for each admales and each addi	add 1 fixture ditional 250 1 fixture for tional 200 ales.		Over 750, add 1 fixture for each additional 500 persons.	and the second
A-3 Assembly occupancy (typical without fixed or permanent seating)- arcades, places of worship, museums, libraries, lecture halls, gymnasiums (without	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-600 4: 601-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750	_	1: 1-250 2: 251-500 3: 501-750	1 service sink or
pectator seating), adoor pools (without pectator seating)	Over 400, add 1 fixture		Over 600, add 1 fixture for each additional 300 males.	Over 750, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.			Over 750, add 1 fixture for each additional 500 persons.	laundry tray

TABLE 422.1
MINIMUM PLUMBING FACILITIES¹ (continued)

TYPE OF OCCUPANCY ²		CLOSETS ER PERSON) ³	URINALS (FIXTURES PER PERSON) ⁴		ORIES ER PERSON) ^{5, 6}	BATHTUBS OR SHOWERS (FIX- TURES PER PERSON)	DRINKING FOUN- TAINS/ FACILITIES (FIXTURES PER PERSON)	OTHER
A-4 Assembly occupancy (indoor activities or sporting events with spectator seating)-swimming pools, skating rinks, arenas and gymnasiums	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750		1: 1-250 2: 251-500 3: 501-750	l service sink or laundry tray
	for each ad males and each addi	add 1 fixture ditional 500 1 fixture for tional 125 ales.	Over 600, add 1 fixture for each additional 300 males.	for each addinates and a	add 1 fixture ditional 250 1 fixture for tional 200 ales.		Over 750, add 1 fixture for each additional 500 persons.	laundry tray
A-5 Assembly occu- pancy (outdoor activities or sporting events)- amusement parks, grandstands and stadi- ums	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750	_	1: 1-250 2: 251-500 3: 501-750	1 service sink or
	for each ad males and each addi	add 1 fixture ditional 500 1 fixture for tional 125 ales.	Over 600, add 1 fixture for each additional 300 males.	for each admales and each addi	add 1 fixture ditional 250 1 fixture for tional 200 ales.		Over 750, add 1 fixture for each additional 500 persons.	laundry tray
B Business occupancy (office, professional or service type transac- tions)- banks, vet clinics, hospitals, car wash, banks, beauty salons, ambulatory health care facilities, laundries and	Male 1: 1-50 2: 51-100 3: 101-200 4: 201-400	Female 1: 1-15 2: 16-30 3: 31-50 4: 51-100 8: 101-200 11: 201-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-75 2: 76-150 3: 151-200 4: 201-300 5: 301-400	Female 1: 1-50 2: 51-100 3: 101-150 4: 151-200 5: 201-300 6: 301-400		1 per 150	1 service sink or
dry cleaning, educational institutions (above high school), or training facili- ties not located within school, post offices and printing shops	Over 400, add 1 fixture		Over 600, add 1 fixture for each additional 300 males.	for each admales and each addi	add 1 fixture ditional 250 1 fixture for tional 200 ales.	_	i per 130	laundry tray
E Educational occu- pancy-private or public schools	Male 1 per 50	Female 1 per 30	Male 1 per 100	Male 1 per 40	Female 1 per 40		1 per 150	1 service sink or laundry tray
F1, F2 Factory or Industrial occupancy-fabricating or assembly work	Male 1: 1-50 2: 51-75 3: 76-100	Female 1: 1-50 2: 51-75 3: 76-100		Male 1: 1-50 2: 51-75 3: 76-100	Female 1: 1-50 2: 51-75 3: 76-100	1 shower for each 15 per- sons exposed to excessive heat or to skin	1: 1-250 2: 251-500 3: 501-750	l service
	3: 76-100 3: 76-100 Over 100, add 1 fixture for each additional 40 persons.	re	for each ac	00, add 1 fixture ch additional 40 persons.	contamination with poison- ous, infec- tious or irritating material.	Over 750, add 1 fixture for each additional 500 persons.	sink or laundry tray	

TABLE 422.1 MINIMUM PLUMBING FACILITIES¹ (continued)

	PE OF JPANCY ²		CLOSETS ER PERSON) ³	URINALS (FIXTURES PER PERSON) ⁴		FORIES ER PERSON) ^{5, 6}	BATHTUBS OR SHOWERS (FIX- TURES PER PERSON) ^{5, 6}	DRINKING FOUNTAINS/ FACILITIES (FIXTURES PER PERSON)	OTHER
pancy (ho than 16 pe 24-hour b stance abu assisted li	ntional occu- buses more ersons on a asis)- sub- use centers, ving, group residential	Female 1 per 15	Male 1 per 15	_	Female 1 per 15		1 per 8	1 per 150	1 service sink or laundry tray
I-2 Institutional occupancy-medical, psychi-	Hospitals and nursing homes-indi- vidual rooms and	1 per room		_	l per	room	1 per room	1 per 150	1 service sink or laundry tray
atric, sur- gical or nursing	ward room	1 per 8	patients		1 per 10) patients	1 per 20 patients		
homes	Hospital Waiting or Visitor Rooms	1 per	1 per room — 1 per room		· room	_	1 per room	_	
	Employee Use	Male 1: 1-15 2: 16-35 3: 36-55	Female 1: 1-15 3: 16-35 4: 36-55	_	Male 1 per 40	Female 1 per 40	_		
		each additi	d 1 fixture for onal 40 perons.			2 F22 12			
I-3 Insti- tutional	Prisons	l pe	r cell		1 pe	er cell	1 per 20	l per cell block/floor	_
pancy (houses more than 5 people)	Correctional facilities or juvenile center	l p	er 8	_	1 p	er 10	1 per 8	1 per floor	1 service sink or laundry tray
	Employee Use	each additi	Female 1: 1-15 3: 16-35 4: 36-55 d 1 fixture for onal 40 perons.		Male 1 per 40	Female 1 per 40	_	1 per 150	
pancy (an	Intional occu- y age that eare for less ours)	Male 1: 1-15 2: 16-35 3: 36-55	Female 1: 1-15 3: 16-35 4: 36-55 d 1 fixture for and 40 persons.	_	Male 1 per 40	Female 1 per 40	_	1 per 150	1 service sink or laundry tray

TABLE 422.1 MINIMUM PLUMBING FACILITIES¹ (continued)

	PE OF IPANCY ²		CLOSETS ER PERSON) ³	URINALS (FIXTURES PER PERSON) ⁴		TORIES ER PERSON) ^{5, 6}	BATHTUBS OR SHOWERS (FIX- TURES PER PERSON)	DRINKING FOUNTAINS/ FACILITIES (FIXTURES PER PERSON)	OTHER
M Mercar pancy (the merchand accessible lic)	sale of	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-100 2: 101-200 4: 201-300 6: 301-400	Male 0: 1-200 1: 201-400	Male 1: 1-200 2: 201-400	Female 1: 1-200 2: 201-300 3: 301-400	_	1: 1-250 2: 251-500 3: 501-750	l service sink or laundry tray
		for each ad males and	add 1 fixture ditional 500 1 fixture for 0 females.	Over 400, add 1 fixture for each additional 500 males.	for each ad males and	add 1 fixture Iditional 500 1 fixture for 0 females.		Over 750, add 1 fixture for each addi- tional 500 persons.	_
pancy (mi hotels, mo	ential occu- nimal stay)- otels, bed fast homes	In per sleeping room Male Female 1 per 10 1 per 8 Dormitories Add 1 fixture for each additional 25 males and 1 fixture for each additional 20 females. Male Female 1: 1-15 1: 1-15		_	1 per slee	eping room	1 per sleeping room	_	1 service sink or laundry tray
R-2 Residential				1 per 25	Male 1 per 12	Female 1 per 12		TO THE PROPERTY OF THE PROPERT	
pancy (long- term or perma-				Over 150, add 1 fixture for each additional 50 males.	additional 20 males and		1 per 8	1 per 150	1 service sink or laundry
nent)	Employee Use			_	Male 1 per 40	Female	_	_	tray
					1	•			
	Apartment house/unit	1 per a	partment	_	1 per a	partment	l per apartment		1 kitchen sink per apartment. 1 laundry tray or 1 automatic clothes washer connection per unit or 1 laun- dry tray or 1 automatic clothes washer connection for each 12 units
pancy (lor permanent	in nature)	Male 1 per 10	Female 1 per 8		Male 1 per 12	Female 1 per 12			1 service sink
for more the does not e occupants	xceed 16	additional 2. fixture for	ure for each 5 males and 1 each addi-) females.		additional 2 1 fixture fo	oure for each 20 males and or each addi- 5 females.	1 per 8	1 per 150	or laundry tray
R-3 Residence pancy (on family dw			nd two family elling	_		nd two family elling	l per one and two family dwelling	_	1 kitchen sink and 1 auto- matic clothes washer con- nection per one and two family dwelling

TABLE 422.1 MINIMUM PLUMBING FACILITIES¹ (continued)

TYPE OF OCCUPANCY ²		CLOSETS ER PERSON) ³	URINALS (FIXTURES PER PERSON) ⁴	LAVAT (FIXTURES PE	ORIES ER PERSON) ^{5, 6}	BATHTUBS OR SHOWERS (FIX- TURES PER PERSON)	TAINS/	OTHER
R-4 Residential	Male 1 per 10	Female 1 per 8		Male	Female			
occupancy (residential care or assisted		Add 1 fixture for each		1 per 12	1 per 12 ire for each			1 service sink
living)	additional 25 males and 1				0 males and	1 per 8	1 per 150	or laundry tray
g)		each addi-			r each addi-			or laured y tray
	tional 20	females.		tional 15	females.			
S-1, S-2 Storage	Male	Female		Male	Female		1: 1-250	
occupancy-storage	1: 1-100	1: 1-100		1: 1-200	1: 1-200		2: 251-500	
of goods, ware-	2: 101-200	2: 101-200		2: 201-400	2: 201-400		3: 501-750	
house, aircraft	3: 201-400	3: 201-400		3: 401-750	3: 401-750		3. 301-730	1 service sink
hanger, food prod- ucts, appliances	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 150 females.			Over 750, a for each adopers			Over 750, add 1 fixture for each additional 500 persons.	or laundry tray

Notes:

- The figures shown are based upon one fixture being the minimum required for the number of persons indicated or any fraction thereof.
- A restaurant is defined as a business that sells food to be consumed on the premises.
- a. The number of occupants for a drive-in restaurant shall be considered as equal to the number of parking stalls.
- b. Hand-washing facilities shall be available in the kitchen for employees.
- The total number of required water closets for females shall be not less than the total number of required water closets and urinals for males. [BSC] This requirement shall not apply when single occupancy toilet facilities are provided for each sex in an A or E occupancy with an occupant load of less than 50. Either a. The required urinal shall be permitted to be omitted or
- b. If installed, the urinal shall not require a second water closet to be provided for the female.

 For each urinal added in excess of the minimum required, one water closet shall be permitted to be deducted. The number of water closets shall not be reduced to less than two-thirds of the minimum requirement.
- 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.
- Metering or self closing faucets shall be installed on lavatories intended to serve the transient public.
- [BSC, DSA-AC, DSA-SS, DSA-SS/CC, HCD 1 & HCD 2, OSHPD 1, 2, 3 & 4] In accordance with Sections 1.8.7 and 301.3, the Authority Having Jurisdiction may approve alternative design criteria when determining the minimum number of plumbing fixtures.

TABLE A. OCCUPANT LOAD FACTOR: [DSA-SS & DSA-SS/CC]

OCCUPANT LOAD FACTOR (square feet)			
15			
30			
30			
200			
50			
50			
2,000			
2,000			
200			
200			
200			
5,000			

^{*} Any uses not specifically listed shall be based on similar uses listed in this table.

^{**} For building or space with mixed occupancies, use appropriate occupancy group for each area (for example, a school may have an "A" occupancy for the gymnasium, a "B" occupancy for the office, an "E" occupancy for the classrooms, etc.)

Accessory areas may be excluded (for example: hallway, restroom, stair enclosure)

TABLE 4-2 $[{\rm OSHPD}~1,2,3~\&~4]^{24} {\rm ~MINIMUM~PLUMBING~FACILITIES}$

SPACE	HANDWASHING FIXTURE	SCRUB SINKS ³	TOILETS	BATHTUBS OR SHOWERS	SERVICE SINKS ¹	CLINIC SINKS
Administration Lobby						
Public Toilet - Male	1		1			
Public Toilet - Female	1		1			
Airborne infection isolation room	1					
Airborne infection isolation anteroom	120					
Airborne infection isolation toilet room	12		15	15		
Cardiac Catheterization procedure room		14, 33				
Central Sterile Supply	115					
Cesarean/Delivery Service Space						
Labor Rooms	1 ³³		19	19		
Recovery Room	1 ³³					1
Drug distribution station	1					
Cesarean operating room		2 ^{10, 33}				
Delivery room		110, 33				
Staff lounge						
Staff Toilet - Male	l^2		1:1-15		_	
Staff Toilet - Female	I^2		1:1-15			
LDR or LDRP room	1 ³³		1	1		
Waiting area/room						
Public Toilet - Male	12		1			
Public Toilet - Female	12		1			
Clinical Laboratory Service Space ¹¹	1					
Dietetic Service Space					1	
Kitchen	1 ³³					
Food serving area	1 ³³					
Food Preparation	1 ³³					
Dietary Staff Toilet - Male	12		1:1-15			
Dietary Staff Toilet - Female	12		1:1-15			
Emergency Service Treatment room	1					
Open plan	1:4 cubicles					
Observation units	1:4 cubicles					
Trauma/Cardiac, Emergency surgery, Cystoscopy, Cast Room		14,33				
Intensive Care Units ⁷					1	1
Open plan	1:3 beds ³³					
Patient rooms ²⁸	1 ³³					
Newborn Intensive Care Unit (NICU)	1:4 bassinets ^{17, 33}				1	1
Control station	1 ³³					
Staff lounge		-			_	
Staff Toilet - Male	12		1:1-15		-	
Staff Toilet - Female	12		1:1-15			
Employee dressing rooms and lockers				-		
Staff Toilet - Male	I^2		1:1-15			

SPACE	HANDWASHING FIXTURE	SCRUB SINKS ³	TOILETS	BATHTUBS OR SHOWERS	SERVICE SINKS ¹	CLINIC SINKS
Staff Toilet - Female	12		1:1-15			-
Exam and treatment rooms	1					
Housekeeping room ¹	MAN ROLL				1	
Laboratories	115					
Laundry soiled linen, receiving, holding and sorting	1					
Medicine preparation room	119					
Morgue and Autopsy	1					
Nourishment area	1+1 ²					
Nuclear Medicine room	1					
Mold room	1					
Patient room	1					
Patient toilet and bath facilities ¹³	12		1:4 beds	1:12 ¹⁶		
Central bathing facility ¹⁶			1	1		
Administration Center or Nurses' Stations ²⁷	1		112			***************************************
Newborn/well baby nursery	1:6 bassinets ³³		1			
	1:0 bassineis					
Workroom						
Gastrointestinal endoscopy procedure room	133		26			
Pediatric and Adolescent Unit toilet room	12,26		1 ²⁶		weeken	
Pharmacy	1 ²⁵					
Staff Toilet - Male	12		1:1-15			
Staff Toilet - Female	l^2		1:1-15			
Compounding area for parenteral solutions	1					
Postanesthesia care units (PACU)						1
Open plan	1:4 gurney spaces ³³					
Individual rooms	1 ³³					
Protective environment room	I ³³					
Protective environment anteroom	1 ^{20,33}					
Protective environment toilet room	12		15	15		
Psychiatric unit patient room	1		1			
Radiological/Imaging Services Space	1		1 ²⁹			W-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Computerized tomography (CT)						
Ultrasound ⁸			130			
Angiography		14, 31				
Fluoroscopy ⁸		-	130			
Staff Toilet ¹⁸ - Male	12		1:1-15			
Staff Toilet ¹⁸ - Female	12		1:1-15			
Staff Totter - remaile Rehabilitation Therapy Space	I		1.1-13			
Training toilet			1		W-12/1/2011	
Physical therapy service space	1		1			
Occupational therapy service space	1					
Speech pathology	1					
Renal Dialysis Service Space	1:4 stations				1	
Bloodborne Infection Isolation Room	1					
Nurses' station	1				Carrier special control of the contr	
Medication dispensing	1					
Home training room	1		No.			

SPACE	HANDWASHING FIXTURE	SCRUB SINKS ³	TOILETS	BATHTUBS OR SHOWERS	SERVICE SINKS ¹	CLINIC SINKS
Repair room ^[]	1				1	
Dialysis patient toilet	I^2		1			
Staff lounge						
Staff Toilet - Male	1		1:1-15	1 shower		
Staff Toilet - Female	1		1:1-15	1 shower		
Surgical Service Space		2^{33}			1	
Staff clothing change areas						
Staff Toilet - Male	12		1	1 shower		
Staff Toilet - Female	I^2		1	1 shower		
Clean-up rooms	1					
Substerile area	1					
Anesthesia workroom	1					
Soiled workroom or soiled holding	1					134
Cancer treatment/infusion therapy treatment	1:4 stations					
Utility/Work Room						
Clean ²¹	1					
Soiled ²²	1					114
Patient beds [Skilled Nursing/Intermediate Care Facilities][medical model]	1:82		1:6	1:20		
Patient toilet and bath facilities ¹³ [Correctional Treatment Center]	1:82		1:6	1:12		
Airborne infection isolation anteroom ⁶ [Correctional Treatment Center]	I^6		1 ⁶	16		
Airborne infection isolation anteroom [Correctional Treatment Center]	1					
Protective environment room ⁶ [Correctional Treat- ment Center]	I^6		16	16		
Protective environment anteroom [Correctional Treatment Center]	1					

Notes:

Conventional spouts and controls on hot-and cold-water supplies are acceptable. Aerators are not permitted. Non-aerating laminar flow devices are permitted. Nourishment areas shall have a handwashing fixture in or immediately accessible from the nourishment area, in addition to a nourishment sink.

3 Scrub sinks shall be located outside of sterile procedure rooms. A minimum of two scrub sinks shall be provided in a surgical unit containing one operating room. Four scrub sinks shall be provided in surgical units containing two operating rooms. One additional scrub sink shall be provided per each additional operating room.

⁴ The scrub sink is in addition to the required number for surgeries.

- The following fixtures shall be provided in airborne infection or protective environment rooms of hospitals only:
- a. Within an adjoining toilet room, a lavatory, a shower containing a seat or a space for a shower chair, and toilet equipped with bedpan flushing attachment with a vacuum breaker.

b. A handwashing fixture within a separate anteroom.

- ⁶ The following fixtures shall be provided in isolation rooms of correctional treatment centers only:
 - a. Within an adjoining toilet area, a handwashing fixture, a shower containing a seat or a space for a shower chair, and water closet equipped with bedpan flushing attachment with a vacuum breaker.

b. A handwashing fixture within a separate anteroom.

Includes burn center spaces, acute respiratory-care service spaces, and coronary-care service spaces.

A toilet room with handwashing fixture shall directly adjoin each procedure room.

One toilet with lavatory and one shower may serve two labor rooms.

¹⁰ One additional scrub sink for each additional cesarean or delivery operating room.

11 Provide emergency eye-wash and shower.

¹² Conveniently located for staff use.

13 Fixtures serving individual patient rooms shall not be considered as meeting the required ratios for bedrooms not served by individual adjoining toilet or bath-rooms.

¹⁴ The clinic sink may be deleted if all bedrooms in the nursing unit are provided with adjoining toilets with bedpan flushing devices.

15 Conventional controls on hot-and cold-water supplies are acceptable. The water discharge points shall be 5 inches (127 millimeters) above the fixture rim. Aerators are not permitted. Non-aerating laminar flow devices are permitted.

Each department or nursing unit shall be served by a housekeeping room equipped with a service sink. Departments may share service closets provided the departmental services are compatible. A dedicated housekeeping room shall be provided for the following services: Surgical/Catherization, ICU, NICU, nursery, dietary, renal dialysis and outpatient surgery.

a handwashing fixture shall be provided within each infant care room.

18 When three or more procedure rooms are provided.

²¹ Handwashing fixtures may be deleted if room is used for storage and holding only.

²² If room is used only for temporary holding of soiled materials, clinic sink and work counter may be omitted. If the flushing-rim clinical sink is eliminated, facilities for cleaning bedpans shall be provided elsewhere.

Toilet shall be equipped with a bedpan flushing attachment.

²⁴ Optional services approved by the licensing agency shall comply with the applicable space requirements of OSHPD 1 and 2.

²⁵ Shall be provided in each separate room where open medication is handled.

²⁶Conveniently accessible throughout the unit.

²⁷ Includes rooms or areas within coronary and intensive-care units and postanethesia recovery rooms.

²⁸ Modular toilet/sink combination units located within a privacy curtain may be used within individual patient space or private room. The toilet fixture shall be completely contained within cabinetry when not in use, and shall be enclosed when flushed. Bedpan washers shall not be permitted in patient bedrooms. ²⁹ In service spaces with procedure rooms that do not have dedicated patient toilets, provide a minimum of one patient toilet room with a separate handwashing fixture within the service space.

³⁰ Toilet room shall be accessible from the procedure room.

³¹ Scrub sink shall be located outside the staff entrance to the procedure room.

32 Not used.

³³ Handwashing and scrub sink fixtures shall not be equipped with wrist or elbow blades but shall be equipped with sensor controls, or controls that do not involve contact with the upper extremities.

³⁴ If room is used only for temporary holding of soiled material, clinic sink and work counter may be omitted.

TABLE 4-3

				IADLL 7-5			
TYPE OF BUILDING OR OCCUPANCY		CLOSETS PER PERSON) FEMALE	URINALS (TRO TO INDIV URINAL EQU MAI	VIDUAL IVALENCE)	LAVATORIES (FIXTURES PER PERSON)	BATHTUBS OR SHOWERS FIXTURES PER PERSON) ⁷	DRINKING FOUNTAINS (FIXTURES PER PERSON) ³
Nonindustrial—office	1 1-15	1 1-15	Length of	Number of	1 1-15	1:10 persons per shift	
buildings, public build-	2 16-35	2 16-35	trough urinal	individual	2 16-35	required to shower	
ings and similar estab- lishments	3 36-55 4 56-80	3 36-55 4 56-80		urinals	3 36-60 4 61-90		
usuments	5 81-110	5 81-110	24" (610 mm)	1	5 91-125		
	6 111-150			2	1 additional for each		
	1 additiona		48" (1219 mm)		additional 4 employ-		
	or fraction	40 employees thereof	60" (1524 mm)	3	ees or fraction thereof		
Industrial-factories,	1 1-15	1 1-15	24" (610 mm)	1	1 to 100	1:10 persons per shift	
warehouses, loft build-	2 16-35	2 16-35	36" (914 mm)	. 2	employees	required to shower	
ings and similar estab-	3 36-55	3 36-55	48" (1219 mm)		1 per 10		
lishments	4 56-80 5 81-110	4 56-80 5 81-110	60" (1524 mm) 72" (1829 mm)		Over 100 employees 1		
	6 111-150			4	additional for each		
	1 additiona				additional 15 employ-		
		40 employees			ees or fraction thereof		
	or fraction	thereof					

- The figures shown are based on one fixture being the minimum required for the number of persons indicated or any fraction thereof.
- Each water closet shall occupy a separate compartment which shall be equipped with a door, door latch and clothes hook. The door and the walls or partitions between fixtures shall be sufficient to assure privacy.

Drinking fountains shall not be located in toilet rooms.

Washing facilities shall be reasonably accessible to all employees.

- Toilet facilities shall be accessible to the employees at all times. Where practicable, toilet facilities should be within 200 feet (61 m) of locations at which workers are regularly employed and should not be more than one floor-to-floor flight of stairs from working areas.
- 6 Urinals may be installed instead of water closets in toilet rooms to be used only by men provided that the number of water closets shall not be less than two thirds of the minimum number of toilet facilities specified. The length of trough urinals to the equivalent number of individual urinals shall be based on the above table.
- When there are less than five employees, separate toilet rooms for each sex are not required provided toilet rooms can be locked from the inside and contain at least one water closet.
- 8 Twenty-four linear inches of wash sink or 18 inches of circular basin, when provided with water outlets for such space, shall be considered equivalent to one lavatory. Exception: The requirements of Table 4-3 do not apply to mobile crews or to normally unattended work locations provided employees at these locations have immediately available transportation to nearby toilet facilities which meet the requirements of Table 4-3.

¹⁶ A minimum of one bathtub is required on each floor of an acute care or acute psychiatric hospital providing skilled nursing or intermediate care services. Special bathing facilities/gurney shower shall be provided at a minimum ratio of one per 100 beds for acute care facilities.

17 In a multiple-bed room, every bed position shall be within 20 feet (6 meters) of a hands-free handwashing fixture. Where an individual room concept is used,

¹⁹ If a separate medicine room is provided, the room shall be equipped with a sink in addition to the nurses' station handwashing fixture. Hot-water supplies are optional.

Not required when there is a handwash fixture in the patient bed room.

TABLE 4-4

TYPE OF BUILDING OR OCCUPANCY ²	WATER CLOSETS (FIXTURES PER PERSON)	URINALS (FIXTURES PER MALE)	LAVATORIES (FIXTURES PER PERSON)	BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS (FIXTURES PER PERSON		
Day Use Public Beaches ^{1,2}	Male Female 1 1-100 1 1-100 No sex designated 1 1-500 Minimum of 2	May be substituted for up to two-thirds of the water closets required					
Picnic Areas	Male Female 1 1-50 1 1-50						
Overnight Use Public Beaches ²	1 1-7.5 campsites ³ 1 1-7.5 campsites ³	May be substituted for up to one-third of the water closets required ³		1 1-12.5 campsites ⁴			
Organized Camps	1 1-153		1 1-15	1 1-156	Minimum 1 per camp		

Notes:

Exception: Intermittent short-term organized camps are not required to provide shower facilities, but it provided, they shall comply with this part.

Toilets shall be located in accordance with actual use patterns on the beach. The reasonable intent of the toilet requirements is that it should apply on the basis of average daily use during periods of peak use. The health officer may determine how many days the population standard may be exceeded.

² Laundry facilities are not required, but if they are provided, must be a minimum of two laundry trays or a washing machine.

³ Toilet facilities shall not be farther than 400 feet from any lot or campsite.

Showers are not required, but it provided, they shall be provided on the indicated ratio. Outdoor rinse-off showers may be cold water only.

⁵ Toilets shall be located within 300 feet from the living accommodations they serve.

⁶ Showers shall be provided in the living area or in a centrally located structure.

CALIFORNIA PLUMBING CODE – MATRIX ADOPTION TABLE CHAPTER 5 - WATER HEATERS

(Matrix Adoption Tables are non-regulatory, intended only as an aid to the code user. See Chapter 1 for state agency authority and building applications.)

Adopting Aganas	BCC	BSC- CG	SFM	HCD		DSA		OSHPD			BCCC	DDU	ACD	DWR	CEC.	CA	CI	61.6			
Adopting Agency	BSC			1	2	1-AC	AC	SS	ss/cc	1	2	3	4	BSCC	DPH	AGH	DWH	CEC	CA	SL	SLC
Adopt Entire Chapter	X							X	X	X	X	X	X								
Adopt Entire Chapter as amended (amended sec- tions listed below)			X	X	X																
Adopt only those sections that are listed below															THE PARTY OF THE P						
Chapter/Section											ļ										
507.2			X	X	X														~~~		

This state agency does not adopt sections identified with the following symbol: †

The Office of the State Fire Marshal's adoption of this chapter or individual sections is applicable to structures regulated by other state agencies pursuant to Section 1.11.