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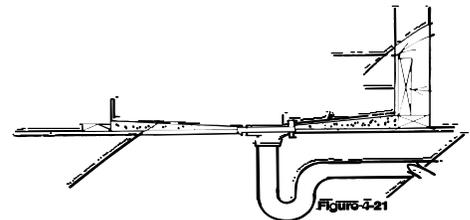
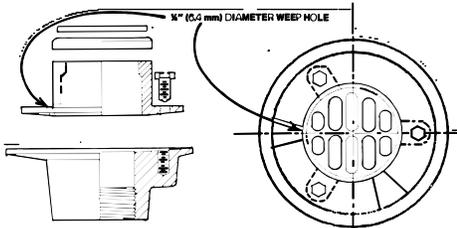
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**BATHROOM REMODEL**

1. Showers and tub-shower combinations shall be provided with individual control valves of the pressure balance or the thermostatic mixing valve type. 2001 California Plumbing Code Section 420
2. An approved type sub drain shall be installed with every shower sub pan or lining. Each such sub drain shall be of the type that sets flush with the sub-base and shall be equipped with a clamping ring or other device to make a tight connection between the lining and the drain. The shower receptor must be tested for leaks by filling it with water to the level of the rough threshold. The test plug must be placed so that both the top and the bottom sides of the sub pan are subjected to bathers



**STANDARD SPECIFICATION FOR THE INSTALLATION OF TILE LINED SHOWER RECEPTORS**

Receptor lining must extend 3" (76.2 mm) above top of finished dam and outward on face of rough jamb.

Finish height of dam to be at least 2" (50.8 mm) above high point of shower drain.

Receptor lining turned over dam and thoroughly tacked outside. No punctures less than 1" (25.4 mm) above the finished dam or threshold on the interior and top of dam or threshold.

Receptor lining shall be pitched not less than 1/4" per foot (20.8 mm/m) to weep holes in drain.

Receptor lining must extend 3" (76.2 mm) above top of finished dam and outward on face of rough jamb.

Fur out or notch studs to receive lining.

Keep lining flush with face of studs or furring.

Mortar setting bed with approved waterproofing additive.

See Section 2.5.

30" (762 mm) min. inside dimension

Flange of approved type sub drain set exactly level with sub floor with clamping ring or other device to make tight connection with receptor lining

1024 (0.66m<sup>2</sup>) minimum floor area finish floor to have minimum of 1/4" (20.8 mm/m) and maximum of 1/2" (41.7 mm/m) pitch to drain per foot.

For receptor lining see Section 3.2.

3. Bathroom Receptacles: In dwelling units, at least one wall receptacle outlet shall be installed within 36" or adjacent to each basin location. The receptacle shall be GFI. 2001 California Electrical Code Section 210-52 d

4. Examples of wiring circuits for bathrooms.

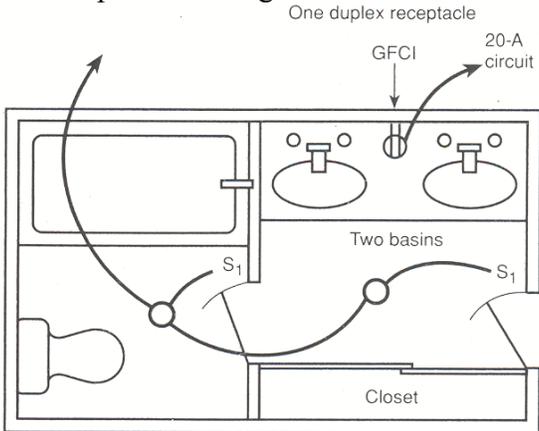
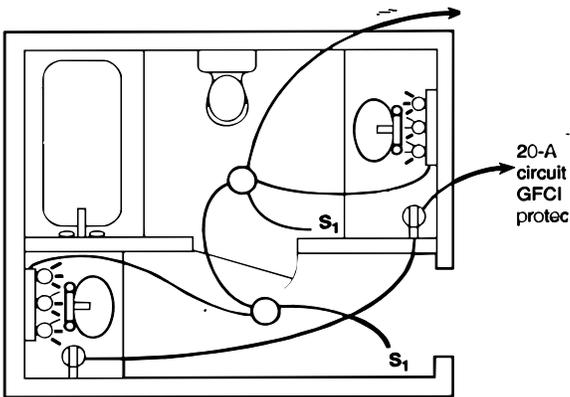


Figure 210-9. Section 210-8(a)(1) requires that all 125-volt, single-phase, 15- and 20-ampere receptacles in bathrooms are to have GFCI protection for personnel. This includes any such receptacles located for a clothes washer, clothes dryer (gas), integral with a lighting fixture, and, of course, the wall-mounted receptacles adjacent to the basin. The definition of "bathroom," found in Article 100, refers to an area that includes the entire area shown, whether a separating door (as illustrated) is present or not. Where receptacles are provided in bathroom areas of hotels and motels, commercial, industrial, and all other non-dwelling occupancies, GFCI protection for the receptacles is required. See Figure 210-10. Section 210-52(d) requires that a receptacle be located adjacent to each basin location. Where basins are adjacent and in close proximity, (36") one receptacle outlet may satisfy the requirement.

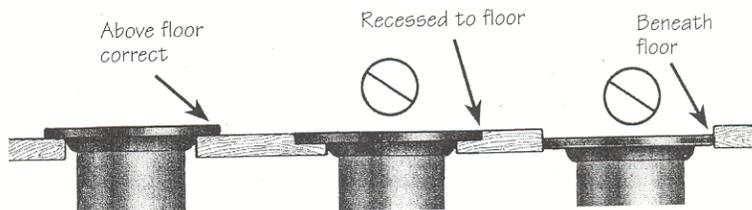
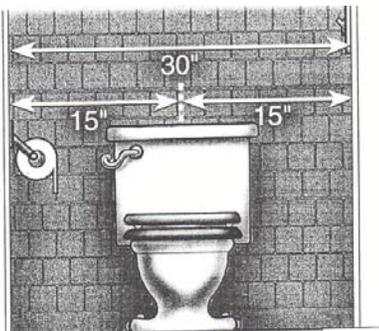


**Bathroom Branch Circuits.** In addition to the number of branch circuits required by other parts of this section, at least one 20-ampere branch circuit shall be provided to supply the bathroom receptacle outlet(s). Such circuits shall have no other outlets.

*Exception: Where the 20-ampere circuit supplies a single bathroom, outlets for other equipment within the same bathroom shall be permitted to be supplied in accordance with NEC Section 210-23(a).*

Figure 210-10.

2001 California Plumbing code 408.6 **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 fifteen (15") inches from its center to any side wall or obstruction nor closer than thirty (30") inches center to center to any similar fixture, The clear space in front of any water closet or bidet shall not be less than twenty-four (24) inches, No urinal shall be set closer than twelve (12) inches from its center to any side wall or partition nor closer than twenty-four (24) inches center to center.



5. Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any portion of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches above a standing surface and drain inlet shall be tempered glass. 2001 California Building Code Section 2406.4