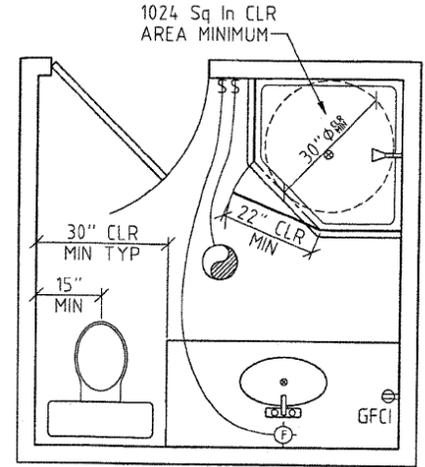


Architectural

- Bathrooms shall have a ceiling height of not less than 7'-0" [R 305.1].
- The water closet shall be located in a clear space not less than 30" in width. The clear space in front of the water closet shall not be less than 24" [CPC 402.5].
- Shower compartments shall have a minimum finished interior area of 1,024 sq. in. and shall be capable of encompassing a 30" circle [CPC 408.6].
- Shower doors shall provide a minimum 22" clear opening [CPC 408.5].
- Shower compartments and walls above bathtubs with installed shower heads shall be finished with a smooth, nonabsorbent surface to a height not less than 72" above the drain inlet [R 307].
- Glass in bathrooms shall be safety glazed (i.e., tempered) when installed in the following locations [R 308.4]:



EXAMPLE 1

- Doors and enclosures for hot tubs, saunas, bathtubs, and showers.
- Windows in building walls enclosing hot tubs, saunas, bathtubs, and showers where the bottom exposed edge of the glazing is less than 60 inches above the standing surface.
- **EXCEPTION:** Glazing that is more than 60 inches (1524mm), measured horizontally and in a straight line from the water's edge of a bathtub, hot tub, spa, whirlpool, or swimming pool.

Mechanical

- Rooms containing bathtubs, showers, spas, and similar bathing fixtures shall be mechanically ventilated at a minimum rate of 25 cubic feet per minute [R 303.3.1 and CMC Table 403.7].
- Fan shall have humidistat unless functioning as a component of a whole house ventilation system [CGBC 4.506.1.2].

(continued)

Electrical

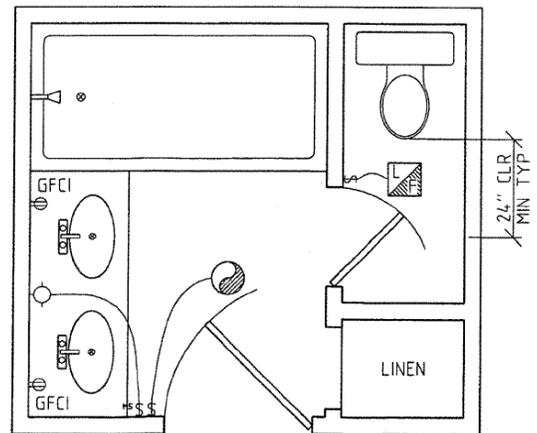
- At least one receptacle outlet shall be installed in bathrooms within 3'-0" of the outside edge of each basin [CEC 210.52(D)].
- GFCI protection is required for all outlet receptacles installed in bathrooms [CEC 210.8(A)(1)].
- A dedicated 20-Amp circuit shall be provided to specifically serve all bathroom outlets or a dedicated 20-Amp circuit shall be provided to serve the entire load from each bathroom [CEC 210.11 (C)(3)].
- Light fixtures located within tub or shower enclosures are to be labeled suitable for damp locations [CEC 410.10].

Plumbing

- Control valves and shower heads shall be located on the sidewall of shower compartments or be otherwise arranged so that the showerhead does not discharge directly at the entrance to the compartment [CPC 408.9].
- Shower and tub-shower combinations shall be provided with individual control valves of the pressure balance, thermostatic, or combination mixing valve type that provide scald and thermal shock protection [CPC 408.3].
- Flow Rates:
 - Water Closets: The flush volume of all water closets shall not exceed 1.28 gallons per flush [CGBC 4.303.1.1]
 - Showerheads: A maximum flow rate of not more than 2.0 gallons per minute at 80 psi [CGBC 4.303.1.3.1].
 - Lavatory Faucets: The maximum flow rate of residential lavatory faucets shall not exceed 1.5 gallons per minutes at 60 psi [CGBC 4.303.1.4.1].

Energy

- Lighting in bathrooms shall meet the following requirements [CEC150 (k) (5)]:
 - A minimum of one high efficacy luminaire shall be installed in each bathroom; and
 - All other lighting installed in each bathroom shall be high efficacy or controlled by vacancy sensors.



EXAMPLE 2