



CALGREEN 2022 RESIDENTIAL REMODEL: MANDATORY MEASURES

The mandatory provisions of the Green Building Manual and the CALGreen shall be applied to additions or alterations of existing residential buildings. See requirements below.

I. PAINTS AND COATINGS

All projects, including minor tenant improvements shall use interior paints with low VOC levels that do not exceed 50 grams per liter Flat, 100 grams per liter Nonflat, or 150 grams per liter Nonflat-high Gloss. This shall be noted on the approved plans. For other specialty coatings, VOC limit in Table 4.504.3 shall apply. (CALGreen 2022, Section 4.504.2.2)

II. ENERGY STAR APPLIANCES

Projects shall install EnergyStar qualified appliances, as applicable. These appliances incorporate advanced technologies that use 10–50% less energy and water than standard models and are widely available. (WHMC Section 19.20.060)

III. WATER SAVING FEATURES

- a. **Water conserving plumbing fixtures and fittings.** Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
(WHMC 13.24.015 & CALGreen 2022, Section 4.303.1)
- b. **Water closets.** The effective flush volume of all water closets shall not exceed 1.1 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.
Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.
(WHMC 13.24.015)
- c. **Urinals.** The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.
(CALGreen 2022, Section 4.303.1.2)
- d. **Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.5 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.
(WHMC 13.24.015)
- e. **Multiple showerheads serving one shower.** 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 1.5 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.
(WHMC 13.24.015)



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- f. Residential lavatory faucets.** The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.
(CALGreen 2022, Section 4.303.1.4.1)
- g. Lavatory faucets in common and public use areas.** 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 per minute at 60 psi.
(CALGreen 2022, Section 4.303.1.4.2)
- h. Metering faucets.** Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.
(CALGreen 2022, Section 4.303.1.4.3)
- i. Kitchen faucets.** The maximum flow rate of kitchen faucets shall not exceed 1.5 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.5 gallons per minute at 60 psi.
Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.
(WHMC 13.24.015)