

RESIDENTIAL GREEN CODE REQUIREMENTS

Community Development
701 Laurel St., Menlo Park, CA 94025
tel 650-330-6704



Site
<ol style="list-style-type: none">1. Recycle or salvage at least 65 percent of the nonhazardous construction or demolition debris. Cal. Green Building Standards Code. § 4.408.1 (2021).2. Submit a construction waste management plan that is available during construction. Cal. Green Building Standards Code. § 4.408.2 (2021).<ul style="list-style-type: none">• Identify the construction and demolition waste materials that are to be diverted from disposal to recycling, reuse on the project or salvage for future use or sale.• Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).• Identify diversion facilities where the construction and demolition waste material will be taken.• Identify construction methods employed to reduce the amount of construction and demolition waste generated.• Indicate if the amount of construction and demolition waste materials diverted shall be calculated either by weight or volume.3. Submit a drainage plan showing how to keep surface water from entering the building. Cal. Green Building Standards Code. § 4.106.2 (2021).4. Submit a storm water management plan for lots less than 1 acre. Cal. Green Building Standards Code. § 4.106.2 (2021).
Foundation
Concrete slab foundation shall have a vapor retarder and a capillary break. Cal. Green Building Standards Code. § 4.505.2.1. (2021).
Outdoor water use in landscape areas
Residential developments shall comply with the local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Cal. Green Building Standards Code. § 4.304 (2021).
Indoor water use
Show compliance with water efficiency and conservation. Under the prescriptive use a maximum flow rate as follows: Showerheads: ≤1.8 gallon per minute (gpm) @ 80psi Lavatory faucet: ≤1.2 gpm @ 60psi Kitchen faucets: ≤1.8 gpm @ 60psi Water closet: ≤1.28 gallons per flush As an alternative to prescriptive compliance, provide calculations to demonstrate at least a 20 percent saving. Cal. Green Building Standards Code. § 4.303.1 (2021). When a shower is served by more than one showerhead, the combined flow of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow one shower outlet to be in operation at a time. Cal. Green Building Standards Code. § 4.303.1.3.2 (2021).
Heating, ventilation and air conditioning
<ol style="list-style-type: none">1. Install energy star bathroom fans on timer or humidistat. Cal. Green Building Standards Code. § 4.506.1 (2021).2. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods: Cal. Green Building Standards Code. § 4.507.2 (2021).<ul style="list-style-type: none">• The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J—2016 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.• Duct systems are sized according to ANSI/ACCA 1 Manual D—2016 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.• Select heating and cooling equipment according to ANSI/ACCA 3 Manual S—2016 (Residential Equipment Selection) or other equivalent design software or methods.

Environmental quality

Provide product certification and specification to show compliance with the Green Code.

1. Gas fireplaces shall be a direct-vent sealed combustion type. Any installed woodstove or pellet stove shall comply with US EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emissions limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances. Cal. Green Building Standards Code. § 4.503.1 (2021).
2. At the time of rough installation or during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust and debris, which may enter the system. Cal. Green Building Standards Code. § 4.504.1 (2021).
3. List of adhesives, sealant, caulking, paint, coating will be used and the VOC content. VOC limits shall be according to Cal. Green Building Standards Code. § 4.504.2.1 (2021).

Finishes

1. Use low-VOC interior wall/ceiling paints that comply with table 4.504.3. Cal. Green Building Standards Code. § 4.504.2.2 (2021).
2. Use low-VOC coatings that meet SCAQMD rule 1113 Cal. Green Building Standards Code. § 4.504.2.3 (2021).
3. All carpet installed in the building interior shall meet the testing and product requirements of one of the following: Cal. Green Building Standards Code. § 4.504.3 (2021).
 - Carpet and Rug Institute's Green Label Plus Program.
 - California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350.)
 - NSF/ANSI 140 at the Gold level.
 - Scientific Certifications Systems Indoor Advantage™ Gold.
4. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall comply with one or more of the following: Cal. Green Building Standards Code. § 4.504.4 (2021).
 - Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.
 - Products compliant with CHPS criteria certified under the Green guard Children and Schools program.
 - Certification under the Resilient Floor Covering Institute (RFCI) Floor score program.
 - Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350).
5. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified on ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5.
6. All carpet adhesive shall meet the requirements of Table 4.504.2.1