



2019 Cal Green Residential Mandatory Measures

New residential buildings shall be designed to include the green building mandatory measures specified in this checklist. This checklist shall also be applied to additions or alterations of existing residential buildings where the addition or alteration increases the buildings conditioned area, volume, or size. The requirements shall apply only to the specific area of the addition or alteration.

BUILDING PERMIT # _____ **ADDRESS:** _____

Feature or Measure (for full details of code requirements, see the 2019 Cal Green Code)	Yes/No & Plan Reference
PLANNING AND DESIGN	Plan sheet, Spec or Attach Reference
SITE DEVELOPMENT (CGS 4.106)	
Stormwater pollution control. A plan has been developed and will be implemented to manage storm water drainage during construction per CGC 4.106.2 & 4.106.3.	
Grading and Paving. Construction plans to indicate how site grading and drainage system will manage all water flows to keep water from entering buildings. Examples found at CGC 4.106.3. Alterations and additions are excluded.	
Electric Vehicle Charging for New Construction. For one- and two-family dwellings, install electric vehicle charging wiring and panels per the requirements found in CGC 4.106.4.	
ENERGY EFFICIENCY	
ENERGY CODE	
Energy Efficiency. Building meets or exceed the requirements of the California Building Energy Efficiency Standards. CSG 4.106.4.	
WATER EFFICIENCY AND CONSERVATION	
INDOOR WATER USE (CGC 4.303)	
Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gal/flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for Tank-type toilets.(CGC 403.1.1).	
Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gal/flush. The effective flush volume for all other urinals shall not exceed 0.5 gal/flush (CGC 403.1.2).	
Single Showerheads. Showerheads shall have a max. flow rate of not more than 1.8 gpm at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for Showerheads. (CGC 403.1.3.1).	
Multiple Showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or shower outlets controlled by a single valve shall not exceed 1.8 gpm at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. (CGC 403.1.3.2)	
Residential lavatory faucets. The max flow rate of residential lavatory faucets shall not exceed 1.2 gpm at 60 psi. the min. flow rate for residential lavatory faucets shall not be less than 0.8 gpm at 20 psi. CGC 403.1.4.1)	
Metering faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle. (CGC 4.303.1.4.3)	
Kitchen faucets. The max. flow rate of kitchen faucets shall not exceed 1.8 gpm at 60 psi. (CGC 4.303.1.4.4)	
OUTDOOR WATER USE (CGC 4.304)	
Scope. The provisions of Section 4.304 reference the mandatory Model Water Efficiency Landscape Ordinance (MWELO) contained within Chapter 2.7, Division 2, Title 23 per CGC 4.304.1.	

MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	
ENHANCED DURABILITY AND REDUCED MAINTENANCE (CGC 4.406)	
Rodent Proofing. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be rodent proofed by closing such openings with cement mortar, concrete masonry, or similar methods acceptable to the enforcing agency. (CGC 4.406.1)	
CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING (CGC 4.408)	
Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste per CGC 4.408.1	
BUILDING MAINTENANCE AND OPERATION (CGC 4.410)	
Operation and maintenance manual. An operation and maintenance manual will be provided to the building occupant or owner. (CGC 4.410.1)	
Recycling by occupants. Where five (5) or more multifamily dwelling units are constructed on a single site, provide readily accessible collection areas that serve all buildings on the site for depositing, storage and collection of non-hazardous recyclables (including paper, corrugated cardboard, glass, plastics, organic waste, and metals) per CGC 4.410.2.	
ENVIRONMENTAL QUALITY	
Fireplaces. Any gas fireplaces shall be a direct-vent sealed-combustible type. (CGC 4.503.1)	
Woodstoves. Any wood stove or pellet stove shall comply with US EPA New Source Performance Standards emission limits per CGC 4.503.1.	
POLLUTANT CONTROL (CGC 4.504)	
Duct and mechanical systems protection. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution components openings shall be covered with tape, plastic, sheet metals, or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris, which may enter the system per CGC 4.504.1.	
Finish material pollutant control. Finish materials shall comply with Sections 4.504.2.1 through 4.504.5.1.	
Adhesives, sealants and caulks. Adhesives, sealants and caulks used on the project shall meet the requirements of the standards listed in CGC 4.504.2.1.	
Paints and coatings. Paints and coatings shall comply with VOC limits per CGC 4.504.2.2.	
Aerosol paints and coatings. Aerosol paints and coatings shall meet the Product-weighted MIR limits for ROC and other requirements per CGC 4.504.2.3.	
Verification. Documentation will be provided, at the request of the Building Division, to verify compliance with VOC finish materials per CGC 4.504.2.4.	
Carpet systems. All carpet installed in the building interior shall meet the testing and product requirement per CGC 4.504.3. Carpet cushion and adhesive also must comply.	
Resilient flooring systems. Where resilient flooring is installed, at least 80% of flooring must comply with one of the following: the VOC-emission limits defined in the 2012 CHPS criteria and listed on its High Performance Products Database; products certified under UL Greenguard Gold program; certified under the Resilient Floor Covering Institute FloorScore program; or meet California Department of Public Health 2010 Specifications per CGC 4.504.4.	
Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior and exterior of the building shall comply with the low formaldehyde emission standards per CGC 4.504.5.	
Documentation. Verification of compliance with this section shall be provided at the request of the enforcing agency.	
INTERIOR MOISTURE CONTROL (CGC 4.505)	
Concrete slab foundations. A capillary break shall be installed if a slab on grade foundation system is used. The use of a 4" thick base of 1/2" or larger clean aggregate under a 6 mil vapor retarder with joint lapped not less than 6" will be provided per CGC 4.505.2 and CRC R506.2.3.	
Moisture content of building materials. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19% moisture content. Moisture content shall be checked prior to finish material being applied per CGC 4.505.3.	
INDOOR AIR QUALITY AND EXHAUST (CGC 4.506)	
Bathroom exhaust fans. ENERGY STAR compliant exhaust fans shall be provided in every bathroom per CGC 4.506.1. Fans shall be ducted to the outside and must be controlled by a humidity control, unless functioning as part of a whole house ventilation system. Humidity controls shall be adjustable between a relative humidity range of 50%-80%.	

ENVIRONMENTAL COMFORT (CGC 4.507)	
<p>Heating and air conditioning. Heating and air-conditioning system shall be sized, designed and have their equipment selected using the following methods:</p> <ol style="list-style-type: none"> 1. Heat Loss/Heat Gain values in accordance with ANSI/ACCA 2 Manual J-2016 or equivalent; 2. Duct systems are sized according to ANSI/ACCA 1, Manual D-2016 or equivalent; 3. Select heating and cooling equipment in accordance with ANSI/ACCA 3, Manual S-2014 or equivalent. 	
INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS	
HVAC INSTALLER QUALIFICATION (CGC 702)	
<p>HVAC installer training. HVAC system installers shall be trained and certified in the proper installation of HVAC systems and equipment by a recognized training or certification program per CGC 702.1.</p>	
VERIFICATION (CGC 703)	
<p>Compliance documentation. Upon request, verification of compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the building department which will show substantial conformance.</p>	
Responsible Designer's Declaration Statement	Contractor/Owners Declaration Statement
I hereby certify that this project has been designed to meet the requirements of the 2019 California Green Building Standards Code.	I hereby certify, as the building or installer under permit listed herein, that this project will be constructed to meet the requirements of the 2019 California Green Building Standards Code.
Name:	Name:
Signature:	Signature:
Date:	Date:
Company:	Company:
Address:	Address:
City/St/Zip:	City/St/Zip: