



CALGREEN: RESIDENTIAL BUILDING PLAN SUBMITTAL CHECKLIST

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.

** LOCAL GREEN BUILDING AND ENERGY ORDINANCE MEASURES ARE LOCATED WITHIN THE CHECKLIST AND ARE IDENTIFIED WITH "SMMC" AND THE SAN MATEO MUNICIPAL CODE REFERENCE.*

BUILDING PERMIT #: _____

ADDRESS: _____

Feature or Measure (For full details of the code requirements see the 2019 Cal Green Code)	Specified Measures Yes/No and Plan Reference
PLANNING AND DESIGN	
SITE DEVELOPMENT (4.106)	
<p>Storm water 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.</p> <p>Note: Refer to the State Water Resource Control Board for project which disturb one acre or more of soil or are part of a larger common plan of development which in total disturbs one acre or more of soil.</p>	
<p>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.</p>	
<p>*Electric Vehicle Charging for New Construction.</p> <p>Single Family, Duplex, and Townhouse: For new single-family, duplex, and townhouse, install electric vehicle charging wiring and panels per the requirements of SMMC 23.70.030.</p> <p>Multifamily dwelling: New Multifamily, install electric vehicle charging wiring and panels per SMMC 23.24.040:</p> <ul style="list-style-type: none"> • Tier 1: 15 percent of the total number of parking spaces on a building site, provided for all types of parking facilities, but in no case less than one, shall be electric vehicle charging spaces (EV spaces) capable of supporting future electric vehicle supply equipment (EVSE). Calculations for required number of EV spaces shall be rounded up to the nearest whole number. • All EV space design requirements shall be follow under SMMC 23.70.060. 	
ENERGY EFFICIENCY	
LOCAL & CA ENERGY CODE	
<p>New low-rise residential Solar Installation: For new low-rise residential buildings, including single family, duplexes, etc, see Section 150.1.(c),14 of the 2019 California Energy Code, Equation 150.1-C.</p> <p>* Local amendment for mandatory solar installations (SMMC 23.24.030).</p> <p>New High-Rise Residential Building: For new high-rise residential building (4 stories or more) shall provide a minimum of a 3-kilowatt photovoltaic system.</p>	
WATER EFFICIENCY AND CONSERVATION	
INDOOR WATER USE (CGC 4.303)	
<p>Water conserving plumbing fixtures. Plumbing fixtures (Water closets and urinals) shall comply with the following:</p> <ol style="list-style-type: none"> 1. The effective flush volume of all water closets shall not exceed 1.28 gal/flush (CGC 403.1.1). 2. 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). 	

Feature or Measure (For full details of the code requirements see the 2019 Cal Green Code)	Yes/No and Plan Reference
Water conserving plumbing fittings. Fittings (faucets and showerheads) have all required standards listed on plans and are in accordance to CGC 4.303.1.3 and CGC 403.1.4.	
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 of the California Code of Regulations per CGC 4.304.1.	
WATER REUSE SYSTEMS (CGC 4.305)	
Laundry to Landscape Infrastructure. New single-family dwellings shall install a three-way diverter valve at the drain line intended for optional laundry-to-landscape irrigation per CGC 4.305.1.	
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 method acceptable to the enforcing agency per 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 per CGC 4.410.1.	
Recycling by occupants. Where 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.	
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. 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 (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 ½" 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 (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.	
ENVIRONMENTAL COMFORT (CGC 4.507)	
Heating and air conditioning. Heating and air-conditioning system shall be sized, designed and have their equipment selected using the following methods: <ol style="list-style-type: none"> 1. Heat Loss/Heat Gain values in accordance with ANSI/ACCA 2 Manual J-2011 or equivalent; 2. Duct systems are sized according to ANSI/ACCA 1, Manual D-2014 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)	
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.	
VERIFICATION (CGC 703)	
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.	

Responsible Designer's Declaration Statement	
I hereby certify that this project has been designed to meet the requirements of the 2019 California Green Building Standards Code.	
Name:	Company:
Signature:	Address:
Date:	City/St/Zip