



## 2016 California Green Building Standards Code:

### Residential Mandatory Measures Requirements for (R-3) SFD

All newly constructed single family dwellings (SFD) and any addition or alteration to an existing single family dwelling which proposes to increase the dwellings conditioned area, volume, or size shall fully comply with the adopted 2016 California Green Building Standards Code and the items described in this checklist. These requirements apply only to the specific area of addition or alteration for existing dwellings.

Building Permit Number: \_\_\_\_\_ Site Address: \_\_\_\_\_

Section	Green Mandatory Measures
<b>Division 4.1</b>	<b>Planning &amp; Design: Site Development</b>
<b>4.106.2</b>	<b>Storm water drainage and retention during construction:</b> Projects which disturb less than one acre of soil and are not part of a larger common development shall manage storm water drainage during construction in accordance with this code and State law.
<b>4.106.3</b>	<b>Grading and paving.</b> Site grading or drainage systems will manage all surface water flows to keep water from entering buildings.
<b>4.106.4</b>	<b>Electric vehicle charging for new one- and two-family dwellings with attached private garages.</b> For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit (nominal 1-inch inside diameter) that originates at the main service or subpanel and terminates into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. The service panel or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device. The service panel or subpanel shall be permanently labeled to identify the breaker space as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".
<b>Division 4.2</b>	<b>Energy Efficiency</b>
<b>4.201.1</b>	<b>Scope.</b> This project shall comply with all applicable energy efficiency requirements as set forth in the most recent version of the California Energy Code. Energy calculations and forms shall be included as part of the plans and drawings.
<b>Division 4.3</b>	<b>Water Efficiency &amp; Conservation</b>
<b>4.303.1</b>	<b>Indoor water use.</b> Plumbing fixtures and fittings shall comply with the following and shall be shown on the construction documents:

	<b>Fixture Type</b>	<b>Maximum Flow Rate</b>	Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code.
	Shower Head	2.0 GPM @80 psi	
	Kitchen Faucet	1.8 GPM @60 psi	
	Lavatory Faucet	1.2 GPM @60 psi	
	Water Closet	1.28 gallons per flush	
	Urinal	0.125 gallons per flush	
<b>4.304.1</b>	<b>Outdoor potable water use in landscape areas.</b> New residential developments with an aggregate landscape area equal to or greater than 500 square feet shall comply with one of the following options: <b>a.</b> A local water efficient landscape ordinance or the current California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent; or <b>b.</b> Projects with aggregate landscape areas less than 2,500 square feet may comply with the MWELO's Appendix D Prescriptive Compliance Option.		
<b>Division 4.4</b>	<b>Material Conservation &amp; Resource Efficiency</b>		
<b>4.406.1</b>	<b>Rodent proofing:</b> Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the city building inspector.		
<b>4.408.1</b>	<b>Construction waste management.</b> Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with either CAL Green Section <b>4.408.2 Waste Management Plan, 4.408.3 Waste Management Company or 4.408.4 Waste Stream Reduction Alternative.</b> A City approved waste management company/hauler shall be used for recycling of construction waste. Documentation of compliance with Section 4.408.1 shall be provided to the Authority Having Jurisdiction prior to project final approval.		
<b>4.410.1</b>	<b>Operation and Maintenance manual.</b> The builder shall prepare an Operation and Maintenance Manual as outlined in Cal Green Section 4.410.1. The manual shall be given to the owner upon final approval by the building inspector. In such case where the property is being sold, it should be given to the new owner at the time of sale. A copy of the manual shall be available for the inspector prior to, or at the time of final inspection.		
<b>Division 4.5</b>	<b>Environmental Quality</b>		
<b>4.503.1</b>	<b>Fireplaces.</b> Any installed gas fireplace shall be of the direct vent, sealed combustion type. New wood burning fireplaces are not permissible in accordance with AQMD Rule 445.		
<b>4.504.1</b>	<b>HVAC system protection.</b> During the construction process and until final startup of the HVAC system, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other method to reduce the amount of water, dust and debris which may enter the system.		
<b>4.504.2</b> <b>4.504.3</b> <b>4.504.4</b> <b>4.504.5</b>	<b>Finish material pollutant control.</b> Finish materials shall comply with the following: <b>a. Adhesives, sealants and caulks</b> used on this project shall comply with SCAQMD Rule 1168 for VOC limits and toxic compounds. Aerosol adhesives, sealants and caulks shall comply with statewide VOC standards. <b>b. Paints and coatings</b> shall comply with VOC limits in Cal Green Table 4.504.3. <b>c. Aerosol paints and coatings</b> shall comply with statewide requirements and other requirements noted in Cal Green Section 4.504.2.3.		

	<p><b>d. Carpet systems.</b> All carpeting and carpet cushions shall meet the requirements of the Carpet and Rug Institute Green Label program. Carpet Adhesives shall comply with VOC limits in Cal Green Table 4.504.1.</p> <p><b>e. Resilient flooring.</b> Where installed, 80% of the floor area receiving resilient flooring shall comply with one or more of the standards listed in Cal-Green Section 4.504.4.</p> <p><b>f. Composite wood products</b> used on the interior or exterior of the building shall comply with the formaldehyde limits per Cal-Green Table 4.504.5. Verification of compliance with the standards listed above shall be provided upon request to the building inspector.</p>
<p><b>4.505.1</b> <b>4.505.2</b> <b>4.505.3</b></p>	<p><b>Interior moisture control.</b> Buildings shall meet or exceed the provisions of the California Building Code.</p> <p><b>a. Concrete Slab foundations.</b> Concrete Slab-on grade foundations/floors that are required to have a vapor retarder by California Building Code Section 1907 or California Residential Code Section R506, shall have a capillary break installed between the concrete slab and supporting grade.</p> <p><b>b. Building materials</b> with visible signs of water damage shall not be installed. Wall and floor framing lumber shall not be enclosed when the framing members exceed 19-percent moisture content. Moisture content shall be verified using one of the methods listed in Cal Green Section 4.505.3.</p> <p><b>c. Insulation products</b> which are visibly wet or have high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities.</p>
<b>4.506.1</b>	<p><b>Indoor air quality and exhaust.</b> Each bathroom (a room which contains a bathtub, shower, or tub/shower combination) shall be mechanically ventilated and shall comply with the following:</p> <ul style="list-style-type: none"> <li>• Exhaust fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.</li> <li>• Unless functioning as a component of a whole house ventilation system, bathroom exhaust fans must be controlled by a humidity control.</li> <li>• Humidity controls shall be capable of adjustment between 50% and 80% relative humidity. Humidity control may utilize manual or automatic means of adjustment which may be a separate component to the exhaust fan (not required to be built-in).</li> </ul>
<b>4.507</b>	<p><b>HVAC system design.</b> HVAC systems shall be sized, designed and have equipment selected using the methods listed in Cal Green Section 4.507.2.</p>

Designer's Declaration Statement		Builder's Declaration Statement	
I hereby certify as the designer of record that the proposed building plans meet the requirements of the California Green Building Standards Code.		I hereby certify as the builder or installer of record under the permit listed herein, that this project will be constructed to meet the requirements of the California Green Building Standards Code.	
Name:		Name:	
Address:		Address:	
Signature:		Signature:	
Date:	License #:	Date:	License #: