



## 2016 CAL GREEN RESIDENTIAL MANDATORY MEASURES CHECKLIST

DATE: \_\_\_\_\_

PERMIT NUMBER: \_\_\_\_\_

JOB ADDRESS: \_\_\_\_\_

**CONTACT INFORMATION:**

APPLICANT'S NAME: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

Following is a standardized checklist of the 2016 California Green Building Standards Code (CalGreen) requirements that may be used to demonstrate compliance with the CalGreen Mandatory Measures (chapter 4). This checklist is required for all new buildings and additions/alterations that increase the building's conditioned area. The requirements shall apply only to and/or within the specific area of the addition or alteration.

CALGREEN REFERENCE AND DESCRIPTION	DESIGNER'S COMMENTS WITH PLAN SHEET REFERENCE	CITY USE: FIELD VERIFICATION
<b>5.201.1 Scope</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards		
<b>PLANNING AND DESIGN – SITE DEVELOPMENT</b>		
<b>4.106.2 Storm water drainage and retention during construction.</b> A plan is developed and implemented to manage storm water drainage during construction.		
<b>4.106.3 Grading and paving.</b> Surface water shall be managed to drain away from buildings.		
<b>WATER EFFICIENCY AND CONSERVATION</b>		
<b>4.303.1 Water conserving plumbing fixtures and fittings.</b> Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4303.1.1 through 4303.1.4.4.		
<b>Water closets.</b> The effective flush volume of all water closets shall not exceed 1.28 gpf. Tank-type		

water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.		
<b>Urinals.</b> The effective flush volume of urinals shall not exceed 0.5 gpf		
<b>Single showerheads.</b> Showerheads shall have a max. flow rate of not more than 2.0 gpm at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.		
<b>Multiple showerheads serving one shower.</b> When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gpm at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.		
<b>Residential lavatory faucets.</b> The max flow rate of residential lavatory faucets shall not exceed 1.5 gpm at 60 psi. The min. flow rate of residential lavatory faucets shall not be less than 0.8 gpm at 20 psi.		
<b>Lavatory faucets in common and public use areas.</b> The max. 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 gpm at 60 psi.		
<b>Metering faucets.</b> Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.		
<b>Kitchen faucets.</b> The max. flow rate of kitchen faucets shall not exceed 1.8 gpm at 60 psi.		
<b>4.304.1. Irrigation Controllers.</b> Automatic irrigation systems controllers installed at the time of final inspection shall be weather or soil moisture-based.		
<b>MATERIAL CONSERVATION AND RESOURCE</b>		
<b>4.406.1 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 enforcing agency.		
<b>4.408.1 Construction waste management.</b> Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with one of the following:		

<ol style="list-style-type: none"> <li>1. Comply with a more stringent local construction and demolition waste management ordinance; or</li> <li>2. A construction waste management plan, per Section 4.408.2; or</li> <li>3. A waste management company, per Section 4.408.3; or</li> <li>4. The waste stream reduction alternative, per Section 4.408.4.</li> </ol>		
<p><b>4.410.1 Operation and maintenance manual.</b> An operation and maintenance manual shall be provided to the building occupant or owner.</p>		
<b>ENVIRONMENTAL QUALITY</b>		
<p><b>4.503.1 Fireplace.</b> Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA Phase II emission limits where applicable.</p> <p>Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.</p>		
<p><b>4.504.1 Covering of duct openings and protection of mechanical equipment during construction.</b> Duct openings and other related air distribution component openings shall be covered during construction</p>		
<p><b>4.504.2.1 Adhesives, sealants and caulks.</b> Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.</p>		
<p><b>4.504.2.2 Paints and coatings.</b> Paints, stains and other coatings shall be compliant with VOC limits.</p>		
<p><b>4.504.2.3 Aerosol paints and coatings.</b> Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds.</p>		
<p><b>4.504.2.4 Verification.</b> Documentation shall be provided to verify that compliant VOC limit finish materials have been used.</p>		
<p><b>4.504.3 Carpet systems.</b> All carpet shall meet the testing and project requirements per sec. 4.504.3. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute’s Green Label program. All carpet adhesive shall meet the requirements of Table 4.504.1.</p>		
<p><b>4.504.4 Resilient flooring systems.</b> At least 80% of floor area receiving resilient flooring shall comply with the requirements per sec. 4.504.4.</p>		
<p><b>4.504.5 Composite wood products.</b></p>		

<p>Hardwood plywood, particleboard and medium density fiberboard (MDF) used on interior or exterior of the building shall comply with formaldehyde emission limits per Table 4.504.5.</p>		
<p><b>4.505.2 Concrete slab foundations.</b> Vapor retarder and capillary break is installed at slab-on-grade foundations.</p>		
<p><b>4.503.3 Moisture content of building materials.</b> Moisture content of building materials used in wall and floor framing shall not to exceed 19% before enclosure. Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure.</p>		
<p><b>4.506 Indoor air quality and exhaust.</b> Bathroom exhaust fans shall be ENERGY STAR ducted to outside. Unless functioning as a component of a whole house ventilation system, bathroom exhaust fans must be controlled by a humidistat between a relative humidity range of 50% - 80%.</p>		
<p><b>4.507.2 Heating and air-conditioning system design.</b> Duct systems are sized, designed, and equipment is selected using the following methods:</p> <ol style="list-style-type: none"> <li>1. Establish heat loss and heat gain values according to ANSIIACCA 2 Manual J-2004 or equivalent.</li> <li>2. Size duct systems according to ANSIIACCA 1 Manual D-2009 or equivalent.</li> <li>3. Select heating and cooling equipment according to ANSI ACCA 3 Manual S-2004 or equivalent</li> </ol>		
<b>INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS</b>		
<p><b>702.1 Installer Training.</b> HVAC system installers are trained and certified in the proper installation of HVAC systems.</p>		
<p><b>702.2 Special Inspection.</b> Special inspectors employed by the enforcing agency must be qualified and able to demonstrate competence in the discipline they are inspecting.</p>		
<p><b>703.1 Documentation.</b> Verification of compliance with this code may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance.</p>		

**The following section shall be completed by a person with overall responsibility for the planning and design portion of the project.**

**DECLARATION STATEMENT**

- I certify under penalty of perjury, under the laws of the State of California, the information provided is true and correct.
- I certify that the installed measures, materials, components, or manufactured devices identified on this certificate conform to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcing agency.

**Responsible Person's Name:**

**Responsible Person's Signature:**

**Date Signed:**

**Position/Title:**