



**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.

CAL GREEN REFERENCE AND DESCRIPTION	DESIGNER'S COMMENTS WITH PLAN SHEET REFERENCE	CITY USE: FIELD VERIFICATION
5.201.1 Scope Building meets or exceeds the requirements of the California Building Energy Efficiency Standards		
PLANNING AND DESIGN – SITE DEVELOPMENT		
Site Development		
4.106.2 A plan is developed and implemented to manage storm water drainage during construction.		
4.106.3 Construction plans shall indicate how site grading or a drainage system will manage all surface water flowing to keep water from entering buildings.		
4.106.4 Electrical vehicle (EV) Provide capability for electric vehicle charging in one-and –two family dwellings and in townhouses with attached private garages; and 3 percent of total parking spaces, as specified, for multifamily dwellings.		

WATER EFFICIENCY AND CONSERVATION		
<p>4.303.1 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4.</p>		
<p>Water closets. 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.</p>		
<p>Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gpf. The effective flush volume of all other urinals shall not exceed 0.5 gpf</p>		
<p>Single showerheads. 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.</p>		
<p>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 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. (A hand-held shower shall be considered a showerhead.)</p>		
<p>Residential lavatory faucets. The max flow rate of residential lavatory faucets shall not exceed 1.2 gpm at 60 psi. The min. flow rate of residential lavatory faucets shall not be less than 0.8 gpm at 20 psi.</p>		
<p>Lavatory faucets in common and public use areas. 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.</p>		
<p>Metering faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.</p>		
<p>Kitchen faucets. The max. flow rate of kitchen faucets shall not exceed 1.8 gpm at 60 psi.</p>		
<p>Outdoor Water Use</p>		
<p>4.304.1. After December 1, 2015, new residential developments with an aggregate landscape area equal to or greater than 500 square feet shall comply with one of the following options:</p>		

<ol style="list-style-type: none"> 1. 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 2. Projects with aggregate landscape areas less than 2,500 square feet may comply with the MWELo's Appendix D Prescriptive Compliance Option. 		
MATERIAL CONSERVATION AND RESOURCE		
<p>4.406.1 Rodent proofing. 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.</p>		
<p>4.408.1 Construction waste management. 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:</p> <ol style="list-style-type: none"> 1. Comply with a more stringent local construction and demolition waste management ordinance; or 2. A construction waste management plan, per Section 4.408.2; or 3. A waste management company, per Section 4.408.3; or 4. The waste stream reduction alternative, per Section 4.408.4. 		
<p>4.410.1 Operation and maintenance manual. An operation and maintenance manual shall be provided to the building occupant or owner.</p>		
<p>4.410.2 Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve all buildings on the site and is identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.</p>		
ENVIRONMENTAL QUALITY		
<p>4.503.1 Fireplace. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.</p>		
Pollutant Control		
<p>4.504.1 Duct openings and other related air distribution component openings shall be covered during construction</p>		
<p>4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.</p>		
<p>4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits.</p>		

4.504.2.3 Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds.		
4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used.		
4.504.3 Carpet and carpet systems shall be compliant with VOC limits.		
4.504.4 80 percent of floor area receiving resilient flooring shall comply with specified VOC criteria.		
Interior Moisture Control		
4.505.2 Vapor retarder and capillary break is installed at slab-on-grade foundations.		
4.503.3 Moisture content of building materials used in wall and floor framing is checked before enclosure.		
Environmental Comfort		
4.507.2 Duct systems are sized, designed, and equipment is selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2011 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D-2014 or equivalent. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent		
3. INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS		
702.1. HVAC system installers are trained and certified in the proper installation of HVAC systems.		
702.2 Special inspectors employed by the enforcing agency must be qualified and able to demonstrate competence in the discipline they are inspecting.		
Verifications		
703.1 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.		

Last Updated: 4/26/2017

N:\DEPARTMENTS\COM DEV\Neighborhood Services\Forms, Brochures, Procedures Manuals & Flow Charts\Building\2016 CalGreen Checklist rev.docx