



## RESIDENTIAL 2010 CALGreen+Tier 1 Checklist

*(Applies to newly constructed hotels, motels, lodging houses, dwellings, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of dwellings with sleeping accommodations and new accessory buildings associated with such uses. Additions, alterations, repairs and existing structures are not subject to CALGreen.)*

### APPENDIX A4 – Section A4.602

*(Revised per City of Santa Rosa Requirements - Based on CALGreen + Tier 1)*

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

Project Description: \_\_\_\_\_

**Instructions:**

1. The Owner or the Owner’s agent shall employ a qualified CALGreen Special Inspector, listed by the City of Santa Rosa Building Division, to perform CALGreen Special Inspector services and to verify and assure the Owner and the Building Division that all required work described herein is properly planned and implemented in the project.
2. The CALGreen Special Inspector shall not be the design professional or contractor for the project and shall not have a financial interest in the project for which services are being provided except for the cost of providing said services. The fee CALGreen Special Inspector is to be negotiated between the owner and Special Inspector and is not included in City of Santa Rosa fee schedule.
3. The CALGreen Special Inspector, in collaboration with the owner and the design professional shall initially complete **Columns 1 and 2** of this checklist, sign and date the **CALGreen Building Acknowledgements** at the end of this checklist and have the checklist printed on or attached to the approved plans for the project.
4. Unless Verification by City Staff is noted, prior to final inspection by the Building Division, CALGreen Special Inspector shall complete **Column 3** and shall provide verification of completion prior to final inspection by City Staff.

<b>Column 1</b> Feature or Measure	<b>Column 2</b> Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i>		<b>Column 3</b> Verification <i>Complete after installation &amp; prior to final inspection approval</i>
<i>See Chapter 4 and Appendix A4 of the 2010 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i>	<b>Mandatory &amp; Tier 1 Prerequisites</b>	<b>Tier 1 electives</b> <i>Applicant selects required elective measures</i>	Verification by a 3rd party Special Inspector or by local jurisdiction staff as noted below
<b>A4.1</b> <b>PLANNING AND DESIGN</b>	<i>All checked items are required for the project</i>	<i>Select at least two (2) elective measures from A4.1</i>	<i>Select all measures verified in the completed project</i>
<b>Site Selection</b>			

Feature or Measure	Required	Electives	Verification by
<b>A4.103.1</b> A site which complies with at least one of the following characteristics is selected: <b>(Support documentation required at application submittal)</b> 1. An infill site is selected. 2. A greyfield site is selected. 3. An EPA-recognized Brownfield site is selected.		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	City Plan Check staff <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>Site Preservation</b>			
<b>A4.104.1</b> An individual with oversight responsibility for the project has participated in an educational program promoting environmentally friendly design or development and has provided training or instruction to appropriate entities.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<b>Deconstruction and Reuse of Existing Materials</b>			
<b>A4.105.2</b> Existing buildings are disassembled for reuse or recycling of building materials. The proposed structure utilizes at least one of the following materials which can be easily reused:  1. Light fixtures 2. Plumbing fixtures 3. Doors and trim 4. Masonry 5. Electrical devices 6. Appliances 7. Foundations or portions of foundations		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/> Verify at least one <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>Site Development</b>			
<b>4.106.2</b> A plan is developed and implemented to manage storm water drainage during construction.	<input checked="" type="checkbox"/>		City Building Inspector <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet:</i> <i>Detail:</i>		
<b>4.106.3</b> The site shall be planned and developed to keep surface water away from buildings. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows.	<input checked="" type="checkbox"/>		City Building Inspector <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet:</i> <i>Detail:</i>		
<b>A4.106.1</b> Orient buildings to optimize the use of solar energy with the long side of the house oriented within 30° of south.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<b>A4.106.2.1</b> Soil analysis is performed by a licensed design professional and the findings utilized in the structural design of the building. <b>(Support documentation required at application submittal)</b>		<input type="checkbox"/>	City Plan Check staff <input type="checkbox"/>

Feature or Measure	Required	Electives	Verification by
<p><b>A4.106.2.2</b> Soil disturbance and erosion are minimized by at least one of the following:</p> <ol style="list-style-type: none"> <li>1. Natural drainage patterns are evaluated and erosion controls are implemented to minimize erosion during construction and after occupancy.</li> <li>2. Site access is accomplished by minimizing the amount of cut and fill needed to install access roads and driveways.</li> <li>3. Underground construction activities are coordinated to utilize the same trench, minimize the amount of time the disturbed soil is exposed and the soil is replaced using accepted compaction methods.</li> </ol>		<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>	<p>City Plan Check staff</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>City Building Inspector</p> <p><input type="checkbox"/></p>
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<p><b>A4.106.2.3</b> Displaced topsoil is stockpiled for reuse in designated area and covered or protected from erosion.</p>	<input checked="" type="checkbox"/>		<p>City Building Inspector</p> <p><input type="checkbox"/></p>
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<p><b>A4.1.6.3</b> Post construction landscape designs accomplish one or more of the following:</p> <ol style="list-style-type: none"> <li>1. Areas disrupted during construction are restored to be consistent with native vegetation</li> <li>2. Limit turf areas to not more than 50 percent (Tier 1).</li> <li>3. Utilize at least 75 percent native Californian or drought tolerant plant and tree species appropriate for the climate zone region.</li> <li>4. Hydrozoning irrigation techniques are incorporated into the landscape design.</li> </ol>	<input checked="" type="checkbox"/>	<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>	<p><b>City Water Efficient Landscape Ordinance Staff</b></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<p><b>A4.106.4</b> Permeable paving is utilized for not less than 20 percent of the total parking, walking, or patio surfaces (exception: primary driveway, entry walkway and porch/landing). (Tier 1)</p>	<input checked="" type="checkbox"/>		<p><b>Special Inspector</b></p> <p><input type="checkbox"/></p>
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<p><b>A4.106.5</b> Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum aged Solar Reflectance Index (SRI) equal to or greater than the values specified in Tables 4.1.6.5(1). (Tier 1)</p>	<input checked="" type="checkbox"/>		<p><b>Special Inspector</b></p> <p><input type="checkbox"/></p>
<b>Innovative Concepts and Local Environmental Conditions</b>			
<p><b>A4.107.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions These items must be approved by the Building Department prior to listing here.</p>			
Item 1:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.2 ENERGY EFFICIENCY</b></p> <p><i>All checked items are required</i>      <i>Select at least four (4) elective measures from A4.2</i>      <i>Select all measures verified in the completed project</i></p>			
<b>Performance Approach General</b>			

Feature or Measure	Required	Electives	Verification by
<b>A4.203.1</b> Low-rise residential buildings use at least 15 percent less Time-Dependent Valuation (TDV) Energy than the 2008 Title 24 Building Energy Efficiency Standards “budget” building. (Tier 1)	☒		City Building Inspector (May Require HERS Rater Verification) <input type="checkbox"/>
<b>Building Envelope</b>			
<b>A4.205.1</b> Radiant roof barrier is installed in Climate Zones <b>2</b> , 4, and 8 through 15.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<i>Description of proposed measures:</i>			
		<i>Sheet:</i>	<i>Detail:</i>
<b>A4.205.2</b> Exterior shading at least 18 inches in depth is provided on south and west windows.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<i>Description of proposed measures:</i>			
<b>Air Sealing Package</b>			
<b>A.4.206.1</b> Third party blower door test is conducted and passed to verify building envelope tightness.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<b>HVAC Design, Equipment and Installation</b>			
<b>A4.207.1</b> Radiant, hydronic, ground source and other innovative space heating and cooling systems included in the proposed design shall be designed using generally accepted industry-approved guidelines and design criteria. <b>(Support documentation may be required at application submittal)</b>		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<b>A4.207.2.2</b> An HVAC system commissioning plan is developed and the following items, as appropriate, pertaining to the heating and cooling systems are inspected and certified by an independent third party agency: <ol style="list-style-type: none"> <li>1. Verify compliance with the manufacturers recommended start-up procedures.</li> <li>2. Verify refrigerant charge by super-heat or other methods specified by the manufacturer.</li> <li>3. Burner is set to fire at the nameplate input rating.</li> <li>4. Temperature drop across the evaporator is within the manufacturers recommended range.</li> <li>5. Test and verify air flow to be within 10 percent of the initial design air flow.</li> <li>6. Static pressure within the duct system is within the manufacturers' acceptable range.</li> <li>7. Verify that the whole house and exhaust ventilation systems meet Title 24 requirements.</li> <li>8. Verify that the recommended maintenance procedures and schedules are documented and provided to the home owner.</li> </ol>		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>A4.207.2.3</b> Results of the commissioning inspection shall be included in the Operation and Maintenance Manual required in Section 4.4.10.1.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>

Feature or Measure	Required	Electives	Verification by
<b>A4.207.4</b> Install gas-fired (natural or propane) space heating equipment with an Annual Fuel Utilization Ratio (AFUE) of 0.90 or higher.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.207.5</b> If an electric heat pump must be used, select equipment with a Heating Seasonal Performance Factor (HSPF) of 8.0 or higher.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.207.6</b> When climatic conditions necessitate the installation of cooling equipment, select cooling equipment with a Seasonal Energy Efficiency Ratio (SEER) higher than 13.0 and an Energy Efficiency Ratio (EER) of at least 11.5.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.207.7</b> Install ductwork to comply with at least <u>one</u> of the following: 1. Install ducts within the conditioned envelope of the building. 2. Install ducts in an underfloor crawl space. 3. Use ducts with an R-6 insulation value or higher. 4. Install ductwork which is buried in the ceiling insulation.		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>A4.207.8</b> Perform duct leakage testing to verify a total leakage rate of less than 6 percent of the total fan flow.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.207.9</b> In climate zones <b>2</b> , 4, and 8 through 15 install a whole-house fan with insulated louvers or an insulated cover.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.207.10</b> ENERGY STAR ceiling fans are installed in all bedrooms and living areas.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>Water Heating Design, Equipment and Installation</b>			
<b>A4.208.1</b> The Energy Factor (EF) for a gas fired storage water heater is higher than 0.60.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.208.2</b> The Energy Factor (EF) for a gas fired tankless water heater is 0.80 or higher.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.208.3</b> Where the hot water source is more than 10 feet from a fixture, the potable water distribution system shall convey hot water using a method designed to minimize wait time for hot water to arrive at the fixture. <b>(Support documentation or plan design required at application submittal)</b>		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>Lighting</b>			
<b>A4.209.1</b> Building lighting consists of at least 90 percent ENERGY STAR qualified hard-wired fixtures.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>Appliances</b>			
<b>A4.210.1</b> Each appliance provided by the builder meets ENERGY STAR if an ENERGY STAR designation is applicable for that appliance.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>

Feature or Measure	Required	Electives	Verification by
<b>Renewable Energy</b>			
<b>A4.211.1</b> Install a solar photovoltaic (PV) system in compliance with the California Energy Commission New Solar Homes Partnership (NSHP). <sup>1,2</sup> <sup>1</sup> In addition each appliance provided by the builder must be Energy Star if an Energy Star designation is applicable for that appliance. <sup>2</sup> Information on NSHP incentives available through the California Energy Commission may be obtained at the "Go Solar California" website: <a href="http://www.GoSolarCalifornia.ca.gov/nshp/index.html">www.GoSolarCalifornia.ca.gov/nshp/index.html</a> .		<input type="checkbox"/>	City Building Inspector <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<b>A4.211.2</b> A solar water heating system is installed.		<input type="checkbox"/>	City Building Inspector <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<b>A4.211.3</b> Provide min. 300 sq ft space on the roof surface and provide rough penetrations for conduit and water pipe through the roof surface are provided for future solar installation.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<b>A4.211.4</b> A minimum one inch conduit is provided from the electrical service equipment to accessible location in attic for the future installation of a photovoltaic (PV) system.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<b>Innovative Concepts and Local Environmental Conditions</b>			
<b>A4.213.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions. These items must be approved by the Building Division prior to listing here.			
Item 1:		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.3 WATER EFFICIENCY AND CONSERVATION</b>	<i>All checked items are required</i>	<i>Select at least one (1) elective measure from A4.3</i>	<i>Select all measures verified in the completed project</i>
<b>Indoor Water Use</b>			
<b>4.303.1</b> Indoor water use shall be reduced by at least 20 percent using <b>one</b> of the follow methods. <input type="checkbox"/> Water saving fixtures or flow restrictors shall be used per Table 4.303.2. or <input type="checkbox"/> A 20 percent reduction in baseline water use shall be demonstrated per Table 4.303.1. ( <b>Support documentation required at application submittal</b> )	<input checked="" type="checkbox"/>		<b>Special Inspector</b> <input type="checkbox"/> or <input type="checkbox"/>
<b>4.303.2</b> When using the calculation method specified in Section 4.303.1, combined multiple showerheads shall not exceed maximum flow rates of one showerhead per method of calculation.	<input checked="" type="checkbox"/>		<b>Special Inspector</b> <input type="checkbox"/>

Feature or Measure	Required	Electives	Verification by
<b>4.303.3</b> Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with specified performance requirements.	☒		<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.303.1</b> Kitchen sink faucet shall have a maximum flow rate not greater than 1.5 gallons per minute at 60 psi. (Tier 1)	☒		<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.303.2</b> Non-water supplied urinals or waterless toilets are installed. (Check with local jurisdiction for approval of these fixtures)		☐	<i>Special Inspector</i> <input type="checkbox"/>
<b>Outdoor Water Use</b>			<b>All Outdoor Water Use verified by City Water Efficient Landscape Ordinance Staff</b>
<b>4.304.1</b> Automatic irrigation systems installed at the time of final inspection shall be weather-based or soil based with rain sensor.	☒		☐
<b>A4.304.1</b> Install a low-water consumption irrigation system which minimizes the use of spray type heads.		☐	☐
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<b>A4.304.2</b> A rainwater capture, storage and re-use system is designed and installed.		☐	☐
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<b>A4.304.3</b> A water budget shall be developed for landscape irrigation. <b>(Support documentation required at application submittal)</b>		☐	☐
<b>A4.304.4</b> Reduce the use of potable water to a quantity that does not exceed 65% of ETo times the landscape area.(Tier 1) <b>(Support documentation required at application submittal)</b>  <b>Note: Local jurisdiction Water Efficient Landscape Ordinance may be more restrictive.</b>	☒		☐
<b>A4.304.5</b> A landscape design is installed which does not utilize potable water. <b>(Support documentation required at application submittal)</b>		☐	☐
<b>WATER REUSE SYTEMS</b>			
<b>A4.305.1</b> Piping is installed to permit future use of a graywater irrigation system served by the clothes washer or other fixtures.		☐	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.305.2</b> Recycled water piping is installed.		☐	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.305.3</b> Recycled water is used for landscape irrigation.		☐	<i>Special Inspector</i> <input type="checkbox"/>

Feature or Measure	Required	Electives	Verification by
<b>Innovative Concepts and Local Environmental Conditions</b>			
<b>A4.306.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions. These items must be approved by the Building Division prior to listing here.			
Item:		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b>	<i>All checked items are required</i>	<i>Select at least two (2) elective measures from A4.4</i>	<i>Select all measures verified in the completed project</i>
<b>Foundation Systems</b>			
<b>A4.4.3.2</b> Cement use in foundation mix design is reduced by not less than a 20 percent. (Tier 1)  <b>Note: As allowed by the enforcing agency, any design cement mix must be authorized and approved by Architect of Record.</b>	<input checked="" type="checkbox"/>		City Building Inspector <input type="checkbox"/>
<b>Efficient Framing Techniques</b>			
<b>A4.404.1</b> Beams and headers and trimmers are the minimum size to adequately support the load.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.404.2</b> Building dimensions and layouts are designed to minimize waste.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.404.3</b> Use pre-manufactured building systems to eliminate solid sawn lumber whenever possible.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.404.4</b> Material lists are included in the plans which specify material quantity and provide direction for on-site cuts. <b>(Support documentation required at application submittal)</b>		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>Material Sources</b>			
<b>A4.405.1</b> One or more of the following building materials, that do not require additional resources for finishing are used:  <input type="checkbox"/> Exterior trim not requiring paint or stain. <input type="checkbox"/> Windows not requiring paint or stain. <input type="checkbox"/> Siding or exterior wall coverings which do not require paint or stain.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.405.2</b> Floors that do not require additional coverings are used including but not limited to stained, natural, or stamped concrete floors.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.405.3</b> At least 10 percent of the materials for the project shall have a post-consumer or pre-consumer recycled content value (RCV) not less than 10 percent. (Tier 1) <b>(Support documentation required at application submittal)</b>	<input checked="" type="checkbox"/>		<i>Special Inspector</i> <input type="checkbox"/>



Feature or Measure	Required	Electives	Verification by
<b>A4.405.4</b> Renewable source building products are used. <b>(Support documentation required at application submittal)</b>		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>Enhanced Durability and Reduced Maintenance</b>			
<b>4.406.1 Joints and openings.</b> Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.	<input checked="" type="checkbox"/>		<i>Special Inspector</i> <input type="checkbox"/>
<b>Water Resistance and Moisture Management</b>			
<b>A4.407.1</b> Install foundation and landscape drains which discharge to a dry well, sump, bioswale or other approved location.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<i>Description of proposed measures:</i>		<i>Sheet:</i>	<i>Detail:</i>
<b>A4.407.2</b> Install gutter and downspout systems to route water at least 5 feet away from the foundation or connect to landscape drains which discharge to a dry well, sump, bioswale, rainwater capture system or other approved on-site location.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<i>Description of proposed measures:</i>		<i>Sheet:</i>	<i>Detail:</i>
<b>A4.407.3</b> Provide flashing details on the building plans and comply with accepted industry standards or manufacturers instructions.		<input type="checkbox"/>	City Plan Check staff <input type="checkbox"/>
<i>Description of proposed measures:</i>		<i>Sheet:</i>	<i>Detail:</i>
<b>A4.407.4</b> Protect building materials delivered to the construction site from rain and other sources of moisture.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>A4.407.6</b> Exterior doors to the dwelling are protected by min. 4 ft. to prevent water intrusion.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<i>Description of proposed measures:</i>		<i>Sheet:</i>	<i>Detail:</i>
<b>A4.407.7</b> A permanent overhang or awning at least 2 feet in depth is provided at all exterior walls.		<input type="checkbox"/>	<i>Special Inspector</i> <input type="checkbox"/>
<b>Construction Waste Reduction, Disposal and Recycling</b>			
<b>4.408.2</b> Where a local jurisdiction does not have a construction and demolition waste management ordinance, a construction waste management plan shall be submitted for approval to the enforcing agency. <b>(Support documentation required at application submittal)</b>	<input checked="" type="checkbox"/>		City Plan Check staff <input type="checkbox"/>
<b>A4.408.1</b> Construction waste generated at the site is diverted to recycle or salvage in compliance with at least a 65 percent reduction. (Tier 1)	<input checked="" type="checkbox"/>		<i>Special Inspector</i> <input type="checkbox"/>
<b>Building Maintenance and Operation</b>			

Feature or Measure	Required	Electives	Verification by
4.410.1 An operation and maintenance manual shall be provided to the building occupant or owner.	<input checked="" type="checkbox"/>		<i>Special Inspector</i> <input type="checkbox"/>
<b>Innovative Concepts and Local Environmental Conditions</b>			
A4.411.1 Items in this section are necessary to address innovative concepts or local environmental conditions.			
Item:		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.5 ENVIRONMENTAL QUALITY</b>	<i>All checked items are required</i>	<i>Select at least one (1) elective measure from A4.5</i>	<i>Select all measures verified in the completed project</i>
<b>Fireplaces</b>			
4.503.1 Install only a direct-vent or sealed-combustion gas fireplace. Wood-pellet stove shall comply with EPA Phase II or local ordinances. <b>(Support documentation may be required at application submittal)</b>	<input checked="" type="checkbox"/>		<i>Special Inspector</i> <input type="checkbox"/>
<b>Pollutant Control</b>			<i>*All by Special Inspector</i>
4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.	<input checked="" type="checkbox"/>		* <input type="checkbox"/>
4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits in CALGreen Table 4.504.1 or 4.504.2 as applicable.	<input checked="" type="checkbox"/>		* <input type="checkbox"/>
4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits in CALGreen Table 4.504.3.	<input checked="" type="checkbox"/>		* <input type="checkbox"/>
4.504.2.3 Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds	<input checked="" type="checkbox"/>		* <input type="checkbox"/>
4.504.2.4 If requested by enforcing agency, documentation shall be provided to verify that compliant VOC limit finish materials have been used.	<input checked="" type="checkbox"/>		* <input type="checkbox"/>
4.504.3 Carpet and carpet systems shall meet the testing and product requirements listed.	<input checked="" type="checkbox"/>		* <input type="checkbox"/>
4.504.5 Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards by dates shown on CALGreen Table 4.504.5.	<input checked="" type="checkbox"/>		* <input type="checkbox"/>

Feature or Measure	Required	Electives	Verification by
<b>A405.4.1</b> Meet the formaldehyde limits contained in Table 4.5.4.6 before the mandatory compliance date, or use composite wood products made with either California Air Resources Board approved no-added formaldehyde resins or ultra-low emitting formaldehyde resins.		<input type="checkbox"/>	* <input type="checkbox"/>
<b>A405.4.2</b> At least Eighty (80) percent of floor area receiving resilient flooring shall comply with the VOC-emission limits defined in the Collaborative for High Performance Schools (CHPS) Low-emitting Materials List or be certified under the Resilient Floor Covering Institute (RCFI) FloorScore program. (Tier 1)	<input checked="" type="checkbox"/>		* <input type="checkbox"/>
<b>A4.504.3</b> Thermal insulation installed in the building shall meet the following requirements: Install thermal insulation in compliance with the VOC-emission limits defined in Collaborative for High Performance Schools (CHPS) Low-emitting Materials List. (Tier 1)	<input checked="" type="checkbox"/>		* <input type="checkbox"/>
<b>Interior Moisture Control</b>			
<b>4.505.2</b> Vapor retarder and capillary break is installed at slab on grade foundations with 4" thick base of 1/2" or larger clean aggregate w/vapor barrier in direct contact with concrete or provide designed specified by licensed professional.	<input checked="" type="checkbox"/>		City Building Inspector <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<b>4.505.3</b> Moisture content of building materials used in wall and floor framing is checked before enclosure to not exceed 19% moisture content.	<input checked="" type="checkbox"/>		<b>Special Inspector</b> <input type="checkbox"/>
<b>Indoor Air Quality and Exhaust</b>			
<b>4.506.1</b> Exhaust fans (ENERGY STAR compliant) which terminate outside the building are provided in every bathroom (with bathtub, shower, or combination) and, unless functioning as a whole house ventilation system, be controlled by humidistat set between 50-80% humidity range.	<input checked="" type="checkbox"/>		<b>Special Inspector</b> <input type="checkbox"/>
<b>A4.506.1</b> Higher than MERV 6 filters are installed on central air or ventilation systems.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<b>A4.506.2</b> Direct vent appliances are used or install space heating & water heating equipment in isolated mechanical room.		<input type="checkbox"/>	<b>Special Inspector</b> <input type="checkbox"/>
<b>Environmental Comfort</b>			
<b>4.507.1</b> Whole house exhaust fans shall have insulated louvers or covers which close when the fan is off. Covers or louvers shall have a minimum insulation value of R-4.2.	<input checked="" type="checkbox"/>		<b>Special Inspector</b> <input type="checkbox"/>
<b>4.507.2.</b> Duct systems are sized and designed and equipment is selected using the following methods: <b>(Support documentation required at application submittal)</b>  1. Establish heat loss and heat gain values according to ACCA Manual J or equivalent.  2. Size duct systems according to ACCA 29-D (Manual D) or equivalent.  3. Select heating and cooling equipment according to ACCA 36-S (Manual S) or equivalent.	<input checked="" type="checkbox"/>		City Plan Check staff <input type="checkbox"/>

Feature or Measure	Required	Electives	Verification by
<i>Description of proposed measures:</i>	<i>Sheet:      Detail:</i>		
<b>Innovative Concepts and Local Environmental Conditions</b>			
<b>A4.509.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions.			
Item:		<input type="checkbox"/>	<input type="checkbox"/>
<b>INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS</b>			<i>Select all measures verified in the completed project</i>
<b>Qualifications</b>			
<b>702.1</b> HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/>		<i>Special Inspector</i> <input type="checkbox"/>
<b>702.2</b> The green building special inspector for this project is listed by the local jurisdiction as an Approved CALGreen Special Inspector and is qualified and able to demonstrate competence in the discipline they inspect and verify.	<input checked="" type="checkbox"/>		City Plan Check staff <input type="checkbox"/>

# CALGreen Building Acknowledgments

Project Address: \_\_\_\_\_

Project Description: \_\_\_\_\_

## Section 1 - Design Verification

Complete all lines of Section 1- "Design Verification" and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to the Building Division.

**The owner, design professional and the local jurisdiction Approved CALGreen Special Inspector have reviewed the plans and certify that the items checked above are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2010 California Green Building Standards Code as amended by the local jurisdiction.**

_____ Owner's Signature	_____ Date
_____ Owner Name (Please Print)	
_____ Design Professional's Signature	_____ Date
_____ Design Professional's Name (Please Print)	
_____ Signature of Listed Green Building Special Inspector	_____ Date
_____ Listed CALGreen Special Inspector's Name (Please Print)	_____ Phone
_____ CALGreen Special Inspector's E-mail Address	

## Section 2 - Implementation Verification

Complete, sign and submit the completed checklist, including Column 3, together with all original signatures on Section 2 – "Implementation Verification" to the Building Department prior to Building Division final inspection.

I have inspected the work have received sufficient documentation to verify and certify that the project identified above was constructed in accordance with this Green Building Checklist and in accordance with the requirements set forth in the 2010 California Green Building Standards Code as amended by the local jurisdiction.

_____ Listed Approved CALGreen Special Inspector Signature	_____ Date
_____ Green Building Special Inspector's Name (Please Print)	_____ Phone (if different than above)
_____ Green Building Special Inspector's E-mail Address (if different than above)	