



**COUNTY OF SONOMA  
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT**

# 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 the requirements of CALGreen. Existing site and landscaping improvements that are not otherwise disturbed are also not subject to the requirements of CALGreen.)*

### APPENDIX A4 – Section A4.602

*(Revised per County of Sonoma Requirements - Based on CALGreen + Tier 1)*

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

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

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

**Instructions:**

- The owner/owner's agent and the design professional as required shall initially complete **Columns 1 and 2** of this checklist, sign and date the **Design Verification** section at the end of this checklist for submission of permit application. PRMD plans examiners shall review checklist for compliance. The approved checklist shall be printed on the project plans as a prerequisite for plan approval.
- Prior to final inspection by the Building Department, the Building Inspector shall complete **Column 3** and sign or initial, and date the **Implementation Verification** section at the end of this checklist.

<b>Column 1 Feature or Measure</b>	<b>Column 2 Project Requirements</b> <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 Verification</b> <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 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>	<b>Verification by Building Inspector or Special Inspector as noted</b>
<b>A4.1 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>Measures verified in the completed project by inspector</i>
<b>Site Selection</b>			
<b>A4.103.1</b> A site which complies with at least one of the following characteristics is selected: 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"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

<p align="center"><b>Column 1</b> <b>Feature or Measure</b></p>	<p align="center"><b>Column 2</b> <b>Project Requirements</b> <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>		<p align="center"><b>Column 3</b> <b>Verification</b> <i>Complete after installation &amp; prior to final inspection approval</i></p>
<p><i>See Chapter 4 and Appendix A4 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center"><b>Mandatory &amp; Tier 1 Prerequisites</b></p>	<p align="center"><b>Tier 1 electives</b> <i>Applicant selects required elective measures</i></p>	<p align="center"><b>Verification by Building Inspector or Special Inspector as noted</b></p>
<p><b>Site Preservation</b></p>			
<p><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.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Deconstruction and Reuse of Existing Materials</b></p>			
<p><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:</p> <ol style="list-style-type: none"> <li>1. Light fixtures</li> <li>2. Plumbing fixtures</li> <li>3. Doors and trim</li> <li>4. Masonry</li> <li>5. Electrical devices</li> <li>6. Appliances</li> <li>7. Foundations or portions of foundations</li> </ol>		<input type="checkbox"/>	<p align="center">Verify at least one if required</p> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p><b>Site Development</b></p>			
<p><b>4.106.2</b> A plan is developed and implemented to manage storm water drainage during construction.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p><b>4.106.3</b> Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>

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<p><i>See Chapter 4 and Appendix A4 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center"><b>Mandatory &amp; Tier 1 Prerequisites</b></p>	<p align="center"><b>Tier 1 electives</b> <i>Applicant selects required elective measures</i></p>	<p align="center"><b>Verification by Building Inspector or Special Inspector as noted</b></p>
<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>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>A4.106.2.3</b> Displaced topsoil is stockpiled for reuse and protected.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p><b>A4.106.2.3</b> The construction area shall be identified and delineated by fencing or flagging to limit construction activity to the construction area.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>A4.106.3</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>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>A4.106.4</b> Permeable paving is utilized for not less than 20 percent of the total parking, walking, or patio surfaces. Review section for exceptions. (Tier 1)</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<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). Required only for roof slopes &gt; 2:12 and roof weights &gt; 5psf. (Tier 1)</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p><b>A4.106.6 Electric vehicle charging.</b> Provide capability for dedicated electrical vehicle supply equipment in single-family and multifamily structures.</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

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<p><i>See Chapter 4 and Appendix A4 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center"><b>Mandatory &amp; Tier 1 Prerequisites</b></p>	<p align="center"><b>Tier 1 electives</b> <i>Applicant selects required elective measures</i></p>	<p align="center"><b>Verification by Building Inspector or Special Inspector as noted</b></p>
<p><b>Innovative Concepts and Local Environmental Conditions</b></p>			
<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>			
<p>Item 1:</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>Item 2:</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>Item 3:</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p align="center"><b>A4.2</b> <b>ENERGY EFFICIENCY</b></p>	<p align="center"><i>All checked items are required</i></p>	<p align="center"><i>Select at least four (4) elective measures from A4.2</i></p>	<p align="center"><i>Measures verified in the completed project by inspector</i></p>
<p><b>Performance Approach General</b></p>			
<p><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. <b>No calculations are required to demonstrate any specified reduction in CO2 emissions.</b> (Tier 1)</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p><b>Building Envelope</b></p>			
<p><b>A4.205.1</b> Radiant roof barrier is installed in Climate Zone 2.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>A4.205.2</b> Exterior shading at least 18 inches in depth is provided on south and west windows.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>Air Sealing Package</b></p>			
<p><b>A.4.206.1</b> Third party blower door test is conducted and passed to verify building envelope tightness.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/> Special Inspection required</p>

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<p><b>HVAC Design, Equipment and Installation</b></p>			
<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><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 <u>inspected and certified by an independent third party agency</u>:</p> <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"/>	<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  Special Inspection required
<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>

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<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.207.7</b> Install ductwork to comply with at least <u>one</u> of the following:</p> <ol style="list-style-type: none"> <li>1. Install ducts within the conditioned envelope of the building.</li> <li>2. Install ducts in an underfloor crawl space.</li> <li>3. Use ducts with an R-6 insulation value or higher.</li> <li>4. Install ductwork which is buried in the ceiling insulation.</li> </ol>		<input type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/>	<input type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/>    <input type="checkbox"/>
<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>  Special Inspection required
<p><b>A4.207.9</b> In climate zone 2, install a whole-house fan with insulated louvers or an insulated cover.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.207.10</b> ENERGY STAR ceiling fans are installed in all bedrooms and living areas.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Water Heating Design, Equipment and Installation</b></p>			
<p><b>A4.208.1</b> The Energy Factor (EF) for a gas fired storage water heater is higher than 0.60.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.208.2</b> The Energy Factor (EF) for a gas fired tankless water heater is 0.80 or higher.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><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.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Lighting</b></p>			
<p><b>A4.209.1</b> Building lighting consists of at least 90 percent ENERGY STAR qualified hard-wired fixtures.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Appliances</b></p>			

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<p><b>A4.210.1</b> Each appliance provided by the builder meets ENERGY STAR if an ENERGY STAR designation is applicable for that appliance.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Renewable Energy</b></p>			
<p><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> Install energy efficiency measures meeting Tier I which exceeds the 2010 <i>California Energy Code</i> requirements by 15 percent.</p> <p>Solar water heating may be used to assist in meeting the energy efficiency requirements of either Tier I or Tier II.</p> <p><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.</p> <p><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>.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.211.2</b> A solar water heating system is installed.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.211.3</b> Space on the roof surface and penetrations through the roof surface are provided for future solar installation.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.211.4</b> A minimum one inch conduit is provided from the electrical service equipment for the future installation of a photovoltaic (PV) system.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Innovative Concepts and Local Environmental Conditions</b></p>			
<p><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 Department prior to listing here.</p>			
<p>Item 1:</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Item 2:</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Item 3:</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Column 1</b> <b>Feature or Measure</b>	<b>Column 2</b> <b>Project Requirements</b> <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> <b>Verification</b> <i>Complete after installation &amp; prior to final inspection approval</i>
See Chapter 4 and Appendix A4 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.	<b>Mandatory &amp; Tier 1 Prerequisites</b>	<b>Tier 1 electives</b> <i>Applicant selects required elective measures</i>	<b>Verification by Building Inspector or Special Inspector as noted</b>
<b>A4.3</b> <b>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>Measures verified in the completed project by inspector</i>
<b>Indoor Water Use</b>			
<b>4.303.1</b> Indoor water use shall be reduced by at least 20 percent using <u>one</u> of the follow methods. <input type="checkbox"/> Water saving fixtures or flow restrictors shall be used per Table 4.303.2. <input type="checkbox"/> A 20 percent reduction in baseline water use shall be demonstrated per Table 4.303.1.	<input checked="" type="checkbox"/> 7/01/2011 <sup>3</sup>		<input type="checkbox"/>  <input type="checkbox"/>
<b>4.303.2</b> When using the calculation method specified in Section 4.303.1, multiple showerheads controlled by a single valve shall not exceed maximum flow rates.	<input checked="" type="checkbox"/> 7/01/2011 <sup>3</sup>		<input type="checkbox"/>
<b>4.303.3</b> Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with specified performance requirements.	<input checked="" type="checkbox"/> 7/01/2011 <sup>3</sup>		<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.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>A4.303.2</b> Non-water supplied urinals or waterless toilets are installed.		<input type="checkbox"/>	<input type="checkbox"/>

<b>Outdoor Water Use<sup>4</sup></b>			
<b>4.304.1</b> Automatic irrigation systems installed at the time of final inspection shall be weather-based.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>A4.304.1</b> Install a low-water consumption irrigation system which minimizes the use of spray type heads.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.304.2</b> rainwater capture, storage and re-use system is designed and installed.		<input type="checkbox"/>	<input type="checkbox"/>

<sup>3</sup>Applies to permit applications submitted on or after 7/1/11.

<sup>4</sup> Refer to SCC 7-D3 "Water Efficient Landscape" for other residential requirements,

[http://www.sonoma-county.org/prmd/docs/landscape\\_ord/index.htm](http://www.sonoma-county.org/prmd/docs/landscape_ord/index.htm)



<b>A4.304.3</b> A water budget shall be developed for landscape irrigation.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.304.4</b> Provide water efficient landscape irrigation design where potable water use does not exceed 65% of ETo.(Tier 1)	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>A4.304.5</b> A landscape design is installed which does not utilize potable water.		<input type="checkbox"/>	<input type="checkbox"/>
<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.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.305.2</b> Recycled water piping is installed.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.305.3</b> Recycled water is used for landscape irrigation.		<input type="checkbox"/>	<input type="checkbox"/>
<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 Department prior to listing here.			
Item 1:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.4 Material Conservation And Resource Efficiency</b>	<b>All checked items are required</b>	<b>Select at least two (2) elective measures from A4.4</b>	<b>Measures verified in the completed project by inspector</b>
<b>Foundation Systems</b>			
<b>A4.403.1</b> A Frost-Protected Shallow Foundation (FPSF) is designed and constructed.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.4.3.2</b> Cement use in foundation mix design is reduced by not less than a 20 percent. (Tier 1)	<input checked="" type="checkbox"/>		<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"/>	<input type="checkbox"/>
<b>A4.404.2</b> Building dimensions and layouts are designed to minimize waste.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.404.3</b> Use pre-manufactured building systems to eliminate solid sawn lumber whenever possible.		<input type="checkbox"/>	<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.		<input type="checkbox"/>	<input type="checkbox"/>
<b>Material Sources</b>			
<b>A4.405.1</b> <u>One</u> 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"/>	<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"/>	<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)	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>A4.405.4</b> Renewable source building products are used.		<input type="checkbox"/>	<input type="checkbox"/>
<b>Enhanced Durability and Reduced Maintenance</b>			
<b>4.406.1</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"/>		<input type="checkbox"/>
<b>Water Resistance and Moisture Management</b>			
<b>A4.407.1</b> Install foundation and landscape drains.		<input type="checkbox"/>	<input type="checkbox"/>
<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"/>	<input type="checkbox"/>
<b>A4.407.3</b> Provide flashing details on the building plans and comply with accepted industry standards or manufacturers instructions.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.407.4</b> Protect building materials delivered to the construction site from rain and other sources of moisture.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.407.6</b> Exterior doors to the dwelling are protected to prevent water intrusion.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.407.7</b> A permanent overhang or awning at least 2 feet in depth is provided.		<input type="checkbox"/>	<input type="checkbox"/>

<b>Construction Waste Reduction, Disposal and Recycling</b>			
<b>4.408.1</b> Recycle and/or salvage for reuse a minimum of 50 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>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>A4.408.1</b> Construction waste generated at the site is diverted to recycle or salvage in compliance with one of the following: <ol style="list-style-type: none"> <li>1. Tier I at least a 65 percent reduction</li> <li>2. Tier 2 at least a 75 percent reduction <b>Exception:</b> Equivalent waste reduction methods are developed by working with local agencies.</li> </ol>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>Building Maintenance and Operation</b>			
<b>4.410.1</b> An operation and maintenance manual shall be provided to the building occupant or owner.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>Innovative Concepts and Local Environmental Conditions</b>			
<b>A4.411.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions.			
Item 1:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3:	<input type="checkbox"/>	<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>Measures verified in the completed project by inspector</i>
<b>Fireplaces<sup>5</sup></b>			
<b>4.503.1</b> Install only a direct-vent sealed-combustion gas appliance, pellet burning appliance, or wood burning appliance compliant with USEPA Ph II certified.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>Pollutant Control<sup>6</sup></b>			

<sup>5</sup> Refer to SCC Ch 7C “Wood Burning Appliances” for applicable local ordinance and Technical Bulletin B-35 “Masonry Fireplaces”

<b>4.504.1</b> Duct openings and other related air distribution component openings shall be covered during construction.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>4.504.2.1</b> Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>4.504.2.2</b> Paints, stains and other coatings shall be compliant with VOC limits.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>4.504.2.3 Aerosol</b> paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>4.504.2.4</b> Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>4.504.3</b> Carpet and carpet systems shall be compliant with VOC limits.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>4.504.4</b> 50 percent of floor area receiving resilient flooring shall comply with the VOC-emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance Products Database or be certified under the Resilient Floor covering Institute (RFCI) FloorScore program; or meet California Dept. of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350).	<input checked="" type="checkbox"/>		
<b>4.504.5</b> Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<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 (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A405.4.2</b> Install VOC compliant resilient flooring systems. At least 80 percent of the resilient flooring installed shall comply. (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.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>4.505.3</b> Moisture content of building materials used in wall and floor framing is checked before enclosure.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>Indoor Air Quality and Exhaust</b>			

<b>4.506.1</b> Exhaust fans which terminate outside the building are provided in every bathroom.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>A4.506.1</b> Higher than MERV 6 filters are installed on central air or ventilation systems.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.506.2</b> Direct vent appliances are used or isolated from the conditioned space.		<input type="checkbox"/>	<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"/>		<input type="checkbox"/>
<b>4.507.2.</b> Duct systems are sized and designed and equipment is selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2004 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D-2009 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2004 or equivalent.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<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 1:		<input type="checkbox"/>	<input type="checkbox"/>
Item 2:		<input type="checkbox"/>	<input type="checkbox"/>
Item 3:		<input type="checkbox"/>	<input type="checkbox"/>
<b>INSTALLER AND BUILDING INSPECTOR QUALIFICATIONS</b>			<i>Measures verified in the completed project by inspector</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"/>		<input type="checkbox"/>
<b>702.2</b> Building inspectors employed by the enforcing agency must be qualified and able to demonstrate competence in the discipline they are inspecting.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>Verifications</b>			

<p><b>703.1</b> Verification of compliance with CALGreen+Tier 1 may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance. Implementation verification shall be submitted to the Building Department after implementation of all required measures and prior to final inspection approval.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
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# Green 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 Department.

The owner/owner's agent, design professional and PRMD Plans Examiner 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.

\_\_\_\_\_  
Owner's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner Name (Please Print)

\_\_\_\_\_  
Design Professional's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Design Professional's Name (Please Print)

\_\_\_\_\_  
Signature of Plans Examiner

\_\_\_\_\_  
Date

## 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 Department 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.

\_\_\_\_\_  
Building Inspector Signature

\_\_\_\_\_  
Date

\_\_\_\_\_

\_\_\_\_\_