

**2019 CALGREEN CHECKLIST RESIDENTIAL ADDITIONS AND ALTERATIONS****BPC-066**

The provisions of this checklist apply to projects with an Increase in Conditioned Area, Volume or Size of existing low-rise residential buildings, including hotels, motels, lodging houses, dwellings, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of residential occupancies where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration. Detached "U" occupancy buildings and repairs to 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**

*(Revised per County of Sonoma Requirements - Based on 2019 CALGreen)*

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

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

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

**INSTRUCTIONS:**

- A. For **Owner-Builder Permits** – The Owner or the Owner's agent shall:
1. Complete the project information above.
  2. Read this checklist and understand the project requirements.
  3. Consult with a 3<sup>rd</sup> Party CALGreen Special Inspector to determine if any mandatory CALGreen measures are not applicable to the project and mark accordingly in Column 1 or the checklist. Provide an explanation for why each measure to be marked "N/A" is not applicable to the project.
  4. Complete the CALGreen acknowledgement in Section 1 on the last page of the checklist.
  5. Submit the entire form to Permit Sonoma along with the building permit application.
- B. For **permits issued to Licensed Contractors** – The Owner and the Contractor shall:
1. Be sure that the project information above is complete.
  2. Read this checklist and understand the project requirements.
  3. Consult with a 3<sup>rd</sup> Party CALGreen Special Inspector to determine if any mandatory CALGreen measures are not applicable to the project and mark accordingly in Column 1 or the checklist. Provide an explanation for why each measure to be marked "N/A" is not applicable to the project.
  4. Complete and sign (both Owner and Contractor or their authorized agents) the CALGreen acknowledgement in Section 1 on the last page of the checklist.
  5. Be sure that the entire CALGreen Checklist is submitted to Permit Sonoma with the building permit application.
- C. **Prior to permit submittal**, the third Party CALGreen Special Inspector shall complete **Column 3** of the checklist verifying that each mandatory feature or measure has been adequately incorporated into the project plans and/or construction documents.

- D. During construction, the third Party CalGreen Special Inspector hired by the Owner will verify those measures checked in **Column 2** of the checklist and indicate compliance verification in **Column 4**.
- E. Prior to final inspection by Permit Sonoma, the CALGreen Special Inspector shall complete **Column 4** and sign and date the **Implementation Verification** section at the end of this checklist.

**NOTE:** 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.

<u>Column 1</u> <b>Feature or Measure</b>	<u>Column 2</u> <b>Project Requirements</b> <i>These items are part of the approved plans and must be installed or incorporated into the project.</i>		<u>Column 3</u> <b>Verification</b> <i>Complete after installation &amp; prior to final inspection</i>
<i>See Chapter 4 of the 2019 California Green Building Code as adopted within the <a href="#">Sonoma County Code Section 7-13(a)(10)</a> for a complete descriptions of features or measures listed here.</i>	<b>Mandatory Measures</b>	<i>Verification that measure is adequately detailed on project plans by Sonoma County approved CALGreen Special Inspector</i>	<i>Verification by Sonoma County approved CALGreen Special Inspector</i>
<b>Site Development</b>			
<b>4.106.2</b> A plan is developed and implemented to manage storm water drainage during construction. See <a href="#">Sonoma County Code Chapter 11A (Storm Water Quality)</a> for additional requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Indicate the plan sheet number where the measure above is noted on plans. _____</i>			
<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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Indicate the plan sheet number where the measure above is noted on plans. _____</i>			
<b>4.106.4</b> Provide capability (raceway & sufficiently sized service panel) for electrical vehicle charging in one- and two-family dwellings; townhouses with attached private garages; multifamily dwellings; and hotel/motels in accordance with Sections 4.106.4.1, 4.106.4.2 and 4.106.4.3; as applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</i>			
<b>4.2</b> <b>ENERGY EFFICIENCY</b>	<i>All checked items are required</i>		
<b>4.201.1</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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<p><b>4.3 WATER EFFICIENCY AND CONSERVATION</b></p>		<p><i>All checked items are required</i></p>	
<p><b>Indoor Water Use</b></p>			
<p><b>4.303.1</b> 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>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</i></p>			
<p><b>4.303.1.4.3</b> Metering faucets in residential buildings shall not deliver more than 0.2 gallons per cycle.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</i></p>			
<p><b>4.303.2</b> Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code, and shall meet the applicable referenced standards.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</i></p>			
<p><b>Outdoor Water Use</b></p>			
<p><b>4.304.1</b> Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</i></p>			
<p><b>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b></p>		<p><i>All checked items are required</i></p>	
<p><b>Enhanced Durability and Reduced Maintenance</b></p>			
<p><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.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</i></p>			

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<p><b>Construction Waste Reduction, Disposal, and Recycling</b></p>			
<p><b>4.408.1</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: 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>	<p align="center"><input checked="" type="checkbox"/></p>		
<p><b>Building Maintenance and Operation</b></p>			
<p><b>4.410.1</b> An operation and maintenance manual shall be provided to the building occupant or owner.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>4.410.2</b> Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) 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.</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>ENVIRONMENTAL QUALITY</b></p>		<p align="center"><i>All checked items are required</i></p>	
<p><b>Fireplaces</b></p>			
<p><b>4.503.1</b> Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove meeting the requirements of U.S. EPA New Source Performance Standards (NSPS) emission limits and <a href="#">Sonoma County Code Chapter 7C (Wood-Burning Appliances and Fireplaces)</a>.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><b>Pollutant Control</b></p>			
<p><b>4.504.1</b> Duct openings and other related air distribution component openings shall be covered during construction.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><b>4.504.2.1</b> Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			

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<p><b>4.504.2.2</b> Paints, stains and other coatings shall be compliant with VOC limits.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><b>4.504.2.3</b> Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><b>4.504.2.4</b> Documentation shall be provided to verify that compliant VOC limit finish materials have been used.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><b>4.504.3</b> Carpet and carpet systems shall be compliant with VOC limits.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><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.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><b>Interior Moisture Control</b></p>			
<p><b>4.505.2</b> Vapor retarder and capillary break is installed at slab on grade foundations.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><b>4.505.3</b> Moisture content of building materials used in wall and floor framing is checked before enclosure.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Indoor Air Quality and Exhaust</b></p>			
<p><b>4.506.1</b> Each bathroom (with tub or shower) shall include the following:                      1. ENERGY STAR fans ducted to the outside of the building and                      2. Fans must be controlled by a humidity controller or functioning as a component of a whole house ventilation system and                      3. Humidity controls must have a manual or automatic means of adjustment, capable of adjusting between a relative humidity range of less than or equal to 50% up to a maximum of 80%.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			

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<p><b>Environmental Comfort</b></p>			
<p><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-2016 or equivalent.                      2. Size duct systems according to ANSI/ACCA 1 Manual D - 2016 or equivalent.                      3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable. _____</p>			
<p><b>INSTALLER AND CALGREEN SPECIAL INSPECTOR QUALIFICATIONS</b></p>			
<p><b>Qualifications</b></p>			
<p><b>702.1</b> HVAC system installers trained and certified in the proper installation of HVAC systems.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>702.2</b> The CALGreen Special Inspector for this project is listed by the County of Sonoma as an authorized CALGreen Special Inspector and is qualified and able to demonstrate competence in the discipline they inspect and verify.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Verifications</b></p>			
<p><b>703.1</b> Verification of compliance with CALGreen 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**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 Permit Sonoma.*

The owner/owner’s agent, design professional, Sonoma County Plan’s Examiner and the Sonoma County approved CALGreen special inspector have reviewed the plans and certify that the items checked above are hereby incorporated into the project plans in accordance with the requirements set forth in the 2019 California Green Building Standards Code as amended by the Sonoma County Code.

Owner Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Design Professional Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Plans Examiner Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Per Section 703.1 of the 2019 CALGreen Building Standards Code, the signee below has verified that adequate documentation has been provided to show compliance with the specified mandatory measures of the 2019 CALGreen Building Standards Code as amended by Chapter 7 of the Sonoma County Code.

County Listed CALGreen Special Inspector

Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_ Certification Number \_\_\_\_\_

**GREEN BUILDING ACKNOWLEDGMENTS**

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

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

**Section 2 – Implementation 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 Permit Sonoma.*

The signee below has inspected the work and has 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 2019 California Green Building Standards Code as amended by Chapter 7 of the Sonoma County Code.

County Listed CALGreen Special Inspector

Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_ Certification Number \_\_\_\_\_