

# 2016 CALGreen Checklist Residential New Construction

BPC-059

This checklist applies to building permit applications received on or after January 1st, 2017, for newly constructed hotels, motels, lodging houses, dwellings, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of residential occupancies with or without a common toilet or cooking facilities including accessory buildings, facilities and uses thereto.

Additions and alterations to existing structures<sup>1</sup> are also subject to the requirements of CALGreen but are not included in this checklist. See PRMD handout BPC-041 for a residential addition and alteration checklist. Repairs to existing structures are not subject to CALGreen. Existing site and landscaping improvements that are not otherwise disturbed are not subject to CALGreen.

## APPENDIX A4

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

Project Name: Pine Flat Residence

Project Address: 6600 Pine Flat Road, Geyserville CA 95441

Project Description: New residence, guest house, detached garage & pool

### Instructions:

1. The Owner or the Owner's agent shall employ a qualified CALGreen Special Inspector, listed by the County of Sonoma Building Department, to perform CALGreen Special Inspector services and to verify and assure the Owner and the Building Department that all required work described herein is properly planned and implemented in the project. County listed CALGreen inspectors can be found on the County's web site at [www.sonoma-county.org/GreenBuilding](http://www.sonoma-county.org/GreenBuilding)
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.
3. The CALGreen Special Inspector, in collaboration with the owner and the design professional shall review and incorporate all applicable provisions of **Column 1** of this checklist into the project, sign and date the **Design Verification** section at the end of this checklist and have the checklist printed on the approved plans for the project. The CALGreen Special Inspector must indicate in **Column 2** of the checklist all applicable measures which must be met and incorporated into the project.
4. Prior to final inspection by the Permit and Resource Management Department, CALGreen Special Inspector shall complete **Column 3** and sign and date the **Implementation Verification** section at the end of this checklist.

<sup>1</sup> Where more than fifty percent (50%) of all existing walls of an existing structure are demolished or deconstructed the structure shall be treated as a new building (PRMD Policy #9-2-12).



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<p align="center"><b>Column 1</b> Feature or Measure</p>	<p align="center"><b>Column 2</b> Project Requirements</p> <p align="center"><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> Verification</p> <p align="center"><i>Complete after installation &amp; prior to final inspection approval</i></p>
<p>See Chapter 4 and Appendix A4 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</p>	<p><b>Mandatory Measures</b></p>	<p><b>Verification that required mandatory measures are adequately detailed on project plans</b></p>	<p><b>Verification by a third party CALGreen Special Inspector listed by the County of Sonoma</b></p>
<p align="center"><b>A4.1</b> <b>PLANNING AND DESIGN</b></p>		<p align="center"><i>All checked items are required for the project</i></p>	<p align="center"><i>Select all measures verified in the completed project</i></p>
<p><b>SITE DEVELOPMENT</b></p> <p><i>Notes:</i> 1. Sections 4.106.2 and 4.106.3 superseded by requirements of Sonoma County Code, Chapter 11A.</p>			<p align="center"><b>A4.1</b></p>
<p><b>4.106.2</b> A plan is developed and implemented to manage storm water during construction in accordance with requirements prescribed in Sonoma County Code Chapter 11A.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p><small>Projects that disturb &lt; 1 acre of soil must manage stormwater</small></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<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>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><small>Sheet A1.0</small></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>4.106.4</b> Provide capability for electric vehicle charging in one- and two-family dwellings and in townhouses with attached private garages; and 3 percent of all parking spaces, as specified, for multi-family dwellings.</p>	<p align="center"><input checked="" 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 all measures verified in the completed project</i></p>
<p><b>4.201.1</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><small>See Energy Calculations</small></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p align="center"><b>A4.3</b> <b>WATER EFFICIENCY AND CONSERVATION</b></p>		<p align="center"><i>All checked items are required</i></p>	<p align="center"><i>Select all measures verified in the completed project</i></p>
<p><b>Indoor Water Use</b></p>			<p align="center"><b>A4.3</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>	<p align="center"><input checked="" type="checkbox"/></p> <p><small>Toilets effective flush &lt;= 1.28 gal/flush; showerhead low per shower &lt;= 1.8 gal/min; lav faucets &lt;= 1.2 gal/min; kitchen faucets &lt;= 1.8 gal/min</small></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></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>	<p align="center"><input checked="" type="checkbox"/></p> <p><small>Signoff from Plumber required indicating all fixtures were installed per CA Plumbing Code</small></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>



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<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>
<i>See Chapter 4 and Appendix A4 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i>	<b>Mandatory Measures</b>	<b>Verification that required mandatory measures are adequately detailed on project plans</b>	<b>Verification by a third party CALGreen Special Inspector listed by the County of Sonoma</b>
<b>Outdoor Water Use</b>		A4.3	
<b>4.304.1</b> New residential developments with an aggregate landscape area equal to or greater than 500 square feet shall comply with the <b>Sonoma County Efficient Landscape Ordinance</b> .	<input checked="" type="checkbox"/> N/A: no landscaping planned	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.4</b> <b>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b>		<i>All checked items are required</i>	<i>Select all measures verified in the completed project</i>
<b>Enhanced Durability and Reduced Maintenance</b>		A4.4	
<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"/> Cementitious materials in annular spaces in plates prevents rodent entry at exterior walls	<input checked="" type="checkbox"/> and subfloor	<input type="checkbox"/>
<b>Construction Waste Reduction, Disposal and Recycling</b>		A4.4	
<b>4.408.1</b> Nonhazardous construction and demolition waste generated at the site is diverted to recycle or salvage in compliance with at least a 65 percent reduction.	<input checked="" type="checkbox"/> GC must provide reports for waste reduction of 65%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Building Maintenance and Operation</b>		A4.4	
<b>4.410.1</b> An operation and maintenance manual shall be provided to the building occupant or owner.	<input checked="" type="checkbox"/> Provide information to owner for new systems, equipment, services, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.410.2</b> If 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve all buildings for recycling by occupants.	<input checked="" type="checkbox"/> N/A: not a multi-family dwelling	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.5</b> <b>ENVIRONMENTAL QUALITY</b>		<i>All checked items are required</i>	<i>Select all measures verified in the completed project</i>
<b>Fireplaces</b>		A4.5	



<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>
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<p>4.503.1 Any installed gas fireplace shall be a direct-vent or sealed-combustion type. Any wood stove or wood heating appliance shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits and have a permanent label.</p> <p><b>Note: Areas of Sonoma County within the Bay Area Air Quality Management District do not allow wood burning devices of any kind in new construction.</b></p>	<p align="center"><input checked="" type="checkbox"/></p> <p>Gas fireplace must be direct-vent or sealed combustion type</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>Pollutant Control</b></p>		<p align="center">A4.5</p>	
<p>4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>Cover all air distribution openings during construction</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>see subs docs</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>see subs docs</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.2.3 Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds and ozone depleting substances.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>see subs docs</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>see subs docs</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.3 Carpet and carpet systems shall be compliant with VOC limits.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>see subs docs</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.4 Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall comply with one or more of the requirements of this section.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>see subs docs</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.5 Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>see subs docs</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>Interior Moisture Control</b></p>		<p align="center">A4.5</p>	
<p>4.505.2 Vapor retarder and capillary break is installed at slab on grade foundations.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>Sheet S2.0</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>4.505.3 Moisture content of building materials used in wall and floor framing is checked before enclosure.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p>Wall and floor framing must be at 19% or less moisture content before drywall is installed</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>



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<b>Indoor Air Quality and Exhaust</b>		A4.5	
<b>4.506.1</b> Humidity controlled ENERGY STAR compliant exhaust fans which terminate outside the building are provided in every bathroom unless otherwise a component of a whole house ventilation system.	<input checked="" type="checkbox"/> Bathroom fans must terminate outside, be humidity controlled and EnergyStar compliant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Comfort</b>		A4.5	
<b>4.507.2.</b> 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-20011, ASHRAE handbooks or equivalent.  2. Size duct systems according to ANSI/ACCA 1 Manual D – 2014, ASHRAE handbooks or equivalent.  3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent.	<input checked="" type="checkbox"/> HVAC sub to provide documentation to GC	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>INSTALLER AND CALGREEN SPECIAL INSPECTOR QUALIFICATIONS</b>		<i>All checked items are required</i>	<i>Select all measures verified in the completed project</i>
<b>Qualifications</b>		A4.7	
<b>702.1</b> HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/> HVAC sub to provide credentials	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>702.2</b> The CALGreen Special Inspector for this project is listed by the County of Sonoma 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"/> SOLDATA Energy Consulting	<input checked="" type="checkbox"/>	<input type="checkbox"/>



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## Green Building Acknowledgments

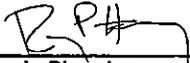
Project Address: 6600 Pine Flat Road, Geyserville CA 95441

Project Description: New residence, guest house, detached garage & pool

### 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 PRMD.

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 2016 California Green Building Standards Code as amended by the Sonoma County Code.



Owner's Signature

Pine Flat LLC

Owner's Name (Please Print)

March 05 2019

Date



Design Professional's Signature

MARY GRIFFIN

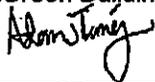
Design Professional's Name (Please Print)

3.5.19  
Date

Signature of Plans Examiner

Date

Per Section 703.1 of the 2016 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 2016 CALGreen Building Standards Code as amended by Chapter 7 of the Sonoma County Code.



Signature of County Listed CALGreen Special Inspector

Adam Turrey

County Listed CALGreen Special Inspector's Name (Please Print)

Adam@soldata.com

CALGreen Special Inspector's E-mail Address

3/5/19

Date

707-545-4440

Phone

ICC #8728491

CALGreen Certification No.



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## Green Building Acknowledgments

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

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

### Section 2 – Implementation Verification

*Complete, sign and submit the completed checklist, including Column 4, together with all original signatures in this Section 2 – "Implementation Verification" to PRMD prior to PRMD final inspection.*

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 2016 California Green Building Standards Code as amended by Chapter 7 of the Sonoma County Code.

\_\_\_\_\_  
Signature of County Listed CALGreen Special Inspector

\_\_\_\_\_  
Date

\_\_\_\_\_  
CALGreen Special Inspector's Name *(Please Print)*

\_\_\_\_\_  
Phone *(if different than above)*

\_\_\_\_\_  
CALGreen Special Inspector's E-mail Address *(if different than above)*

\_\_\_\_\_  
CALGreen Certification No.



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