

2016 CALGreen Checklist Residential Additions and Alterations

BPC-057

SCOPE: *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 2016 CALGreen)

Project Name: _____

Project Address: _____

Project Description: _____

Instructions:

1. For **Owner-Builder permits** – The Owner or the Owner's agent shall:
 - a. Complete the project information above.
 - b. Read this checklist and understand the project requirements.
 - c. Consult with a 3rd Party CALGreen Special Inspector to determine if any mandatory CALGreen measures are not applicable to the project and mark accordingly in **Column 1** of the checklist. Provide an explanation for why each measure to be marked "N/A" is not applicable to the project.
 - d. Complete the CALGreen acknowledgement in Section 1 on the last page of the checklist.
 - e. Submit the entire form to PRMD along with the building permit application.
2. For **permits issued to Licensed Contractors** – The Owner and the Contractor shall:
 - a. Be sure that the project information above is completed.
 - b. Read this checklist and understand the project requirements.
 - c. Consult with a 3rd Party CALGreen Special Inspector to determine if any mandatory CALGreen measures are not applicable to the project and mark accordingly in **Column 2** of the checklist. Provide an explanation for why each measure to be marked "N/A" is not applicable to the project.
 - d. Complete and sign (both Owner and Contractor or their authorized agents) the CALGreen acknowledgement in Section 1 on the last page of the checklist.
 - e. Be sure that the entire CALGreen Checklist is submitted to PRMD with the building permit application.



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3. **Prior to permit submittal**, the 3rd 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.
4. During construction, the 3rd 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**.
5. Prior to final inspection by PRMD, 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.*



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<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>Must be incorporated into the project unless the measure is not applicable (N/A).</i></p>	<p align="center">Column 3 Verification That Feature or Measure is Adequately Detailed and/or Identified:</p>	<p align="center">Column 4 Compliance Verified <i>Completed after measure has been completed.</i></p>
<p align="center"><i>See Chapter 4 of the 2016 California Green Building Code and Sonoma County Code for complete descriptions of features or measures listed here.</i></p>	<p align="center">Mandatory Measures</p>	<p align="center">3rd party CALGreen Special Inspector</p>	<p align="center">3rd party CALGreen Special Inspector</p>
<p>4.1 PLANNING AND DESIGN</p>			
<p>SITE DEVELOPMENT</p>			
<p>4.106.2 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"/> or <input type="checkbox"/> N/A </p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i></p>			
<p>4.106.3 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"/> or <input type="checkbox"/> N/A </p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i></p>			
<p>4.106.4 For garage alterations, 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"/> or <input type="checkbox"/> N/A </p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i></p>			
<p>4.2 ENERGY EFFICIENCY</p>			
<p>PERFORMANCE APPROACH</p>			
<p>4.201.1 Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.</p>	<p align="center"> <input checked="" type="checkbox"/> or <input type="checkbox"/> N/A </p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i></p>			



4.3 WATER EFFICIENCY AND CONSERVATION

All checked items are required for the project unless N/A is selected

Complete prior to Permit Submittal

Complete prior to Final Inspection

INDOOR WATER USE

4.303.1 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.

or
 N/A

Description of proposed measure(s) or explanation of why it is not applicable (N/A):

4.303.2 Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code (CPC), and shall meet the applicable referenced standards, per CPC Table 1701.1.

or
 N/A

Description of proposed measure(s) or explanation of why it is not applicable (N/A):

OUTDOOR WATER USE

4.304.1 Automatic irrigation systems installed at the time of final inspection shall be weather- or soil-moisture based.

or
 N/A

Description of proposed measure(s) or explanation of why it is not applicable (N/A):

4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

All checked items are required for the project unless N/A is selected

Complete prior to Permit Submittal

Complete prior to Final Inspection

ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 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.

or
 N/A

Description of proposed measure(s) or explanation of why it is not applicable (N/A):

CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING

4.408.1 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:

or
 N/A

1. A construction waste management plan, per Section 4.408.2; or
2. A waste management company, per Section 4.408.3; or
3. The waste stream reduction alternative, per Section 4.408.4.
4. Documentation shall be provided to demonstrate compliance with one of the above listed compliance measures.

Description of proposed measure(s) or explanation of why it is not applicable (N/A):



BUILDING MAINTENANCE AND OPERATION				
4.410.1 An operation and maintenance manual shall be provided to the building occupant or owner.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>	
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>				
4.5 ENVIRONMENTAL QUALITY		All checked items are required for the project unless N/A is selected	Complete prior to Permit Submittal	Complete prior to Final Inspection
FIREPLACES				
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. Note: Areas of Sonoma County within the Bay Area Air Quality Management District do not allow new wood burning devices of any kind.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>				
POLLUTANT CONTROL				
4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>				
4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>				
4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>				
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.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>				
4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>	



<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
4.504.3 Carpet and carpet systems shall be compliant with VOC limits.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
4.504.4 80 percent of floor area receiving resilient flooring shall comply with the VOC-emission limits shall comply with the VOC-emission limits established in section 4.504.4.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
4.504.5 Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
INTERIOR MOISTURE CONTROL			
4.505.2 Vapor retarder and capillary break is installed at slab on grade foundations.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
4.505.3 Moisture content of building materials used in wall and floor framing is checked before enclosure.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
INDOOR AIR QUALITY AND EXHAUST			
4.506.1 Humidity controlled 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"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
ENVIRONMENTAL COMFORT			
4.507.2. Duct systems are sized and designed and equipment is selected using the following methods: <ol style="list-style-type: none"> 1. Establish heat loss and heat gain values according to ANSI/ACCA Manual J-2011 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D - 2014 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent. 	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			



INNOVATIVE CONCEPTS AND LOCAL ENVIRONMENTAL CONDITIONS			
Items necessary to address innovative concepts or local environmental conditions, or to be substituted for mandatory features based on project specific 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"/>
INSTALLER AND CALGreen SPECIAL INSPECTOR QUALIFICATIONS		Complete prior to Permit Submittal	Complete prior to Final Inspection
QUALIFICATIONS			
702.1 HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
702.2 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"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			



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 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

Date

Owner’s Name (Please Print)

Design Professional’s Signature

Date

Design Professional’s Name (Please Print)

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

Date

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

Phone

CALGreen Special Inspector’s E-mail Address

CALGreen Certification No.



Green Building Verification

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.

