

# 2016 CALGreen Checklist Nonresidential New Construction

BPC-060

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This checklist is effective January 1st, 2017, and applies to newly constructed nonresidential buildings without sleeping accommodations. Additions and alterations to existing structures<sup>1</sup> are also subject to the requirements of CALGreen but are not included in this checklist. Existing site and landscaping improvements that are not otherwise disturbed are not subject to the requirements of CALGreen.

## APPENDIX A5

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

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 County of Sonoma Permit and Resource Management Department (PRMD), 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 **Columns 1 and 2** 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><i>See Chapter 5 and Appendix A5 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i></p>	<p><b>Mandatory Measures</b></p>	<p>Verification that required mandatory measures are adequately detailed on project plans</p>	<p>Verified by the third-party CALGreen Special Inspector listed by the County of Sonoma</p>
<p align="center"><b>A5.1</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 align="center">A5.1</p>	
<p><b>5.106.1 Storm water pollution prevention.</b> Newly constructed projects which disturb land shall prevent the pollution of storm water runoff from construction activities in accordance with Sonoma County Code Section 11A-8(d).</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>5.106.4 Bicycle parking.</b></p> <p><b>5.106.4.1.1 Short-term bicycle parking.</b> If the new project is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking being added, with a minimum of one space.</p> <p><b>5.106.4.1.2 Long-term bicycle parking.</b> For buildings with over 10 tenant-occupants, provide secure bicycle parking for 5 percent of tenant occupied motorized vehicle parking spaces being added, with a minimum of one space.</p>	<p align="center"><input checked="" type="checkbox"/></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"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.106.5.2 Designated parking for fuel-efficient vehicles.</b> In new projects or additions or alterations that add 10 or more vehicle parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as shown in Table 5.106.5.2.</p> <p><b>5.106.5.2.1 Parking stall marking.</b> Paint the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle:  CLEAN AIR /  VANPOOL / EV</p>	<p align="center"><input checked="" type="checkbox"/></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"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>5.106.5.3 Electric Vehicle (EV) Charging [N]</b> Infrastructure for EV charging shall be provided in accordance with Table 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate the future installation of electric vehicle supply equipment (EVSE).</p> <p><b>5.106.5.3.1 When Single charging space is required.[N]</b> When only a single charging space is <i>provided or</i> required per Table 5.106.5.3.3, the requirements of 5.106.5.3.1 are met.</p> <p><b>5.106.5.3.2 When Multiple charging spaces are required.[N]</b> When multiple charging spaces are <i>provided or</i> required per Table 5.106.5.3.3, the requirements of 5.106.5.3.2 are met.</p> <p><b>A5.106.5.3.4 Identification.</b> The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as “EV CAPABLE.” The raceway termination shall be permanently and visibly marked as “EV CAPABLE.”</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"><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>5.106.8 Light pollution reduction.</b> Outdoor lighting systems shall be designed and installed to comply with the following:</p> <ol style="list-style-type: none"> <li>1. The minimum requirements of the California Energy Code for Lighting Zones 1-4 (<i>as applicable</i>) as defined in Chapter 10 of the California Administrative Code.</li> <li>2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11.</li> <li>3. Allowable BUG ratings not exceeding those shown in Table 5.106.8.</li> </ol> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.</li> <li>2. Emergency lighting.</li> <li>3. Building facade meeting the requirements in Table 140.7-B of the <i>California Energy Code</i>, Part 6.</li> </ol>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></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"><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>5.106.10 Grading and Paving.</b> Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include those shown in Items 1-5.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>



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<p><b>5.303.3 Water conserving plumbing fixtures and fittings.</b> Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:</p> <p><b>5.303.3.1 Water closets.</b> The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets.</p> <p><b>Note:</b> The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.</p> <p><b>5.303.3.2 Urinals.</b></p> <p><b>5.303.3.2.1 Wall-mounted urinals.</b> The effective flush volume of urinals shall not exceed 0.125 gallons per flush.</p> <p><b>5.303.3.2.2 Floor-mounted urinals.</b> The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.</p> <p><b>5.303.3.3 Showerheads.</b></p> <p><b>5.303.3.3.1 Single showerhead.</b> Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.</p> <p><b>5.303.3.3.2 Multiple showerheads serving one shower.</b> When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.</p> <p><b>Note:</b> A hand-held shower shall be considered a showerhead.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></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"><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>

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<p><b>5.303.3.4 Faucets and fountains</b></p> <p><b>5.303.3.4.1 Nonresidential lavatory faucets.</b> Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.</p> <p><b>5.303.3.4.2 Kitchen faucets.</b> Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.</p> <p><b>5.303.3.4.3 Wash fountains.</b> Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].</p> <p><b>5.303.3.4.4 Metering faucets.</b> Metering faucets shall not deliver more than 0.20 gallons per cycle.</p> <p><b>5.303.3.4.5 Metering faucets for wash fountains.</b> Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].</p> <p><b>Note:</b> Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></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"><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>5.303.4 Commercial kitchen equipment.</b></p> <p><b>5.303.4.1 Food waste disposers.</b> Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use or shall shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.</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>5.303.6 Standards for plumbing fixtures and fittings.</b> Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.</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>OUTDOOR WATER USE</b></p>		<p align="center">A5.3</p>	
<p><b>5.304.1 Water efficient landscape.</b> Comply with all applicable provisions of <i>Chapter 7D3 of the Sonoma County Code (Water Efficient Landscape)</i>.</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>5.304.5 Graywater or rainwater use in landscape areas.</b> For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2,500 square feet of landscape and meets the lot or parcel's landscape water requirement entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D Section (5). See also the 2016 <i>California Plumbing Code</i>.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>



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<p><b>5.408.1.1 Construction waste management plan.</b> Establish a construction waste management plan that complies with Items 1 through 4 of section 5.408.1.1.</p> <p><b>5.408.1.2 Waste management company.</b> Utilize a waste management company that can provide verifiable documentation that the percentage of construction waste material diverted from the landfill complies with this section. <b>(Support documentation required prior to permit issuance)</b></p> <p><b>Exceptions to Sections 5.408.1.1 and 5.408.1.2:</b></p> <ol style="list-style-type: none"> <li>1. Excavated soil and land-clearing debris</li> <li>2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.</li> <li>3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.</li> </ol> <p><b>5.408.1.3 Waste stream reduction alternative.</b> The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.</p> <p><b>5.408.1.4 Documentation.</b> Provide documentation of the waste management plan that meets the requirements listed in Sections 5.408.1.1 through 5.408.1.3, and the plan is accessible to the enforcement authority.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></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"><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>5.408.3 Excavated soil and land clearing debris.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled.</p> <p><b>Exception:</b> Reuse, either on- or off-site of vegetation or soil contaminated by disease or pest infestation.</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>BUILDING MAINTENANCE AND OPERATION</b></p>		<p align="center">A5.4</p>	
<p><b>5.410.1 Recycling by occupants.</b> Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>



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<p><b>5.410.2 Commissioning.</b> For new buildings 10,000 square feet and over, building commissioning for all building systems covered by T24, Part 6, process systems, and renewable energy systems shall be included in the design and construction processes of the building project. Commissioning requirements shall include items listed in 5.410.2.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Unconditioned warehouses of any size</li> <li>2. Areas under 10,000 square feet used for offices or other conditioned accessory spaces within dry storage warehouses</li> <li>3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.</li> <li>4. Open parking garages of any size, or open parking garage areas of any size, within a structure.</li> </ol> <p><b>5.410.2.1 Owner's Project Requirements (OPR).</b> Documented before the design phase of the project begins the OPR shall include items listed in 5.410.2.1<sup>1</sup>. <b>(Support documentation required at application submittal)</b></p> <p><b>5.410.2.2 Basis of Design (BOD).</b> A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project to cover the systems listed in 5.410.2.2<sup>4</sup>. <b>(Support documentation required at application submittal)</b></p> <p><b>5.410.2.3 Commissioning plan.</b> A commissioning plan describing how the project will be commissioned shall include items listed in 5.410.2.3. <b>(Support documentation required at application submittal)</b></p> <p><b>5.410.2.4 Functional performance testing</b> shall demonstrate the correct installation and operation of each component, system, and system-to-system interface per approved plans and specifications.</p> <p><b>5.410.2.5 Documentation and training.</b> A Systems Manual and Systems Operations Training are required.</p> <p><b>5.410.2.5.1 Systems manual.</b> The Systems Manual shall be delivered to the building owner or representative and the facilities operator and shall include the items listed in 5.410.2.5.1.</p> <p><b>5.410.2.5.2 Systems operations training.</b> A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and shall include items listed in 5.410.2.5.2.</p>	<p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>5.410.2.6 Commissioning report.</b> A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or owner's representative.</p>	<p><input checked="" type="checkbox"/></p>	<p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>

<sup>1</sup> Where the 2013 California Energy Code is referenced, the effective date of the provision is 7/1/2014.

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<p><b>5.410.4 Testing, adjusting and balancing.</b> Testing, adjusting and balancing of systems shall be required for new buildings less than 10,000 square feet.</p> <p><b>5.410.4.2 Systems.</b> Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project, the following: <b>(Support documentation required at application submittal)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> HVAC systems and controls.</li> <li><input type="checkbox"/> Indoor and outdoor lighting and controls.</li> <li><input type="checkbox"/> Water heating systems.</li> <li><input type="checkbox"/> Renewable energy systems.</li> <li><input type="checkbox"/> Landscape irrigation systems.</li> <li><input type="checkbox"/> Water reuse systems.</li> </ul> <p><b>5.410.4.3 Procedures.</b> Perform testing and adjusting procedures in accordance with applicable standards on each system as determined by the enforcing agency.</p> <p><b>5.410.4.3.1 HVAC balancing.</b> Before a new space-conditioning system serving a building or space is operated for normal use, the system should be balanced in accordance with the procedures defined by national standards listed in 5.410.4.3.1.</p> <p><b>5.410.4.4 Reporting.</b> After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.</p> <p><b>5.410.4.5 Operation and maintenance manual.</b> Provide the building owner with detailed operating and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection.</p> <p><b>5.410.4.5.1 Inspections and reports.</b> Include a copy of all inspection verification and reports to the enforcing agency.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></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"><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 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>

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<p><i>See Chapter 5 and Appendix A5 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i></p>	<p><b>Mandatory Measures</b></p>	<p>Verification that required mandatory measures are adequately detailed on project plans</p>	<p>Verified by the third-party CALGreen Special Inspector listed by the County of Sonoma</p>
<p align="center"><b>A5.5</b> <b>ENVIRONMENTAL QUALITY</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>FIREPLACES</b></p>		<p align="center">A5.5</p>	
<p><b>5.503.1 Fireplaces.</b> Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove and refer to residential requirements in the <i>California Energy Code</i>, Title 24, Part 6, Subchapter 7, Section 150.</p> <p><b>5.503.1.1 Woodstoves.</b> Woodstoves shall comply with US EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. <b>Note: Portions of Sonoma County that are within the Bay Area Air Quality Management District do not allow woodstoves of any kind.</b></p>	<p align="center"><input checked="" type="checkbox"/></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"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>POLLUTANT CONTROL</b></p>		<p align="center">A5.5</p>	
<p><b>5.504.1.3 Temporary ventilation.</b> If the HV AC system is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy.</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>5.504.3 Covering of duct openings and protection of mechanical equipment during construction.</b> At the time of rough installation and during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.</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>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 implementation and prior to final inspection approval</i></p>
<p><i>See Chapter 5 and Appendix A5 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i></p>	<p align="center"><b>Mandatory Measures</b></p>	<p>Verification that required mandatory measures are adequately detailed on project plans</p>	<p>Verified by the third-party CALGreen Special Inspector listed by the County of Sonoma</p>
<p><b>5.504.4 Finish material pollutant control.</b> Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.4.</p> <p><b>5.504.4.1 Adhesives, sealants, caulks.</b> Adhesives and sealants used on the project shall meet the requirements of the following standards.</p> <p>1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2.</p> <p>2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></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"><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>5.504.4.3 Paints and coatings.</b> Architectural paints and coatings shall comply with Table 5.504.4.3.</p> <p><b>5.504.4.3.1 Aerosol Paints and Coatings.</b> Aerosol paints and coatings shall meet the Product-Weighted MIR Limits for ROC in section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances (CCR, Title 17, Section 94520 et seq).</p> <p><b>5.504.4.3.2 Verification.</b> Verification of compliance with this section shall be provided as requested by the enforcing agency.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></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"><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>5.504.4.4 Carpet systems.</b> All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed in 5.504.4.4.</p> <p><b>5.504.4.4.1 Carpet cushion.</b> All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.</p> <p><b>5.504.4.4.2 Carpet adhesive.</b> All carpet adhesive shall meet the requirements of Table 5.504.4.1.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></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"><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"><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 implementation and prior to final inspection approval</i></p>
<p><i>See Chapter 5 and Appendix A5 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i></p>	<p align="center"><b>Mandatory Measures</b></p>	<p>Verification that required mandatory measures are adequately detailed on project plans</p>	<p>Verified by the third-party CALGreen Special Inspector listed by the County of Sonoma</p>
<p><b>5.504.4.5 Composite wood products.</b> Newly installed hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in Table 5.504.4 in Division 5.5.</p> <p><b>5.504.4.5.3 Documentation.</b> Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following as applicable.</p> <ol style="list-style-type: none"> <li>1. Product certifications and specifications.</li> <li>2. Chain of custody certifications.</li> <li>3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.)</li> <li>4. Exterior grade products marked as meeting the PS-I or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.</li> <li>5. Other methods acceptable to the enforcing agency.</li> </ol>	<p align="center"><input checked="" type="checkbox"/></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"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.504.4.6 Resilient flooring systems.</b> For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:</p> <ol style="list-style-type: none"> <li>1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;</li> <li>2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;</li> <li>3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and 7.1 (formerly EQ. 2.2) dated July 2012 and listed in the CHPS High Performance Product Database; or</li> <li>4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's &amp; Schools Program).</li> </ol> <p><b>5.504.4.6.2</b> Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.</p>	<p align="center"><input checked="" type="checkbox"/></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"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

<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 implementation and prior to final inspection approval</i></p>
<p><i>See Chapter 5 and Appendix A5 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i></p>	<p align="center"><b>Mandatory Measures</b></p>	<p>Verification that required mandatory measures are adequately detailed on project plans</p>	<p>Verified by the third-party CALGreen Special Inspector listed by the County of Sonoma</p>
<p><b>5.504.5.3 Filters.</b> In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a MERV of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. An ASHRAE 10-percent to 15-percent efficiency filter shall be permitted for an HVAC unit meeting the 2013 California Energy Code having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow.</li> <li>2. Existing mechanical equipment.</li> </ol> <p><b>5.504.5.3.1 Labeling.</b> Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.</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>5.504.7 Environmental tobacco smoke (ETS) control.<sup>2</sup></b> <u>Where outdoor areas are provided for smoking</u>, prohibit smoking (<b>by posting no smoking signage</b>) within 25 feet of building entries, outdoor air intakes and operable windows <u>and within the building as already prohibited by other laws or regulations</u>; or as enforced by ordinances, regulations, or policies of any city or county, whichever are more stringent.</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>INDOOR MOISTURE AND RADON CONTROL</b></p>		<p align="center">A5.5</p>	
<p><b>5.505.1 Indoor moisture control.</b> Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1203 and Chapter 14.</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>AIR QUALITY AND EXHAUST</b></p>		<p align="center">A5.5</p>	
<p><b>5.506.1 Outside air delivery.</b> For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 of the California Energy Code and Chapter 4 of CCR, Title 8, or the applicable local code, whichever is more stringent.</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>5.506.2 Carbon dioxide (CO<sub>2</sub>) monitoring.</b> For buildings equipped with demand control ventilation, CO<sub>2</sub> sensors and ventilation controls shall be specified and installed in accordance with the requirements of the latest edition of the California Energy Code, Section 120(c)(4).</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

<sup>2</sup> Modified to conform with Chapter 32 of the Sonoma County Code.

<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 implementation and prior to final inspection approval</i></p>
<p><i>See Chapter 5 and Appendix A5 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i></p>	<p align="center"><b>Mandatory Measures</b></p>	<p>Verification that required mandatory measures are adequately detailed on project plans</p>	<p>Verified by the third-party CALGreen Special Inspector listed by the County of Sonoma</p>
<p><b>ENVIRONMENTAL COMFORT</b></p>		<p align="center">A5.5</p>	
<p><b>5.507.4 Acoustical control.</b> Employ building assemblies and components with STC values determined in accordance with ASTM E 90 and ASTM E 413 or OITC determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2. <b>(Support documentation required prior to permit issuance)</b></p> <p><b>5.507.4.1 Exterior noise transmission, Prescriptive Method.</b> Wall and floor-ceiling assemblies exposed to the noise source making up the building or addition envelope or alteration envelope shall have exterior wall and roof-ceiling assemblies meeting a composite STC rating of at least 50 or a composite OITC rating of no less than 40 with exterior windows of a minimum STC of 40 or OITC of 30 in the locations described in Items 1 and 2.</p> <p><b>5.507.4.1.1 Noise exposure where noise contours are not readily available.</b> Buildings exposed to a noise level of 65 dB <math>L_{eq-1Hr}</math> during any hour of operation shall have the building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC or rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).</p> <p>or</p> <p><b>5.507.4.2 Exterior noise transmission, Performance Method.</b> For buildings located as defined in Sections 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies making up the building or addition envelope or alteration envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (<math>L_{eq-1Hr}</math>) of 50 dBA in occupied areas during any hour of operation.</p> <p><b>5.507.4.2.1 Site features.</b> Exterior features such as sound walls or earth berms may be utilized as appropriate to the project to the building, addition or alteration project to mitigate sound migration to the interior.</p> <p><b>5.507.4.2.2 Documentation of compliance.</b> An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.</p> <p><b>5.507.4.3 Interior sound.</b> Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p><i>Choose either Prescriptive or Performance method</i></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center">or</p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p><i>Verify either Prescriptive or Performance method</i></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">or</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><i>Verify either Prescriptive or Performance method</i></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">or</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 5 and Appendix A5 of the 2016 California Green Building Code and the local jurisdiction for complete descriptions of features or measures listed here.</i></p>	<p align="center"><b>Mandatory Measures</b></p>	<p>Verification that required mandatory measures are adequately detailed on project plans</p>	<p>Verified by the third-party CALGreen Special Inspector listed by the County of Sonoma</p>
<p><b>OUTDOOR AIR QUALITY</b></p>		<p align="center">A5.5</p>	
<p><b>5.508.1 Ozone depletion and greenhouse gas reductions.</b> Installations of HVAC, refrigeration, and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.</p> <p><b>5.508.1.1 CFCs.</b> Install HVAC and refrigeration equipment that does not contain CFCs.</p> <p><b>5.508.1.2 Halons.</b> Install fire suppression equipment that does not contain Halons.<sup>1</sup></p>	<p>As applicable</p> <p align="center"><input checked="" type="checkbox"/></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"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.508.2 Supermarket refrigerant leak reduction.</b> New commercial refrigeration systems shall comply with the provisions of section 5.508.2 when installed in retail food stores 8,000 square feet or more of conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.</p> <p><b>Exception:</b> Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are non-ozone-depleting refrigerants that include ammonia, carbon dioxide (CO<sub>2</sub>), and potentially other refrigerants.</p> <p><b>[NOTE: See all requirements for refrigerant piping, connections, valves, refrigerated service cases, refrigerant receivers, pressure testing and system evacuation contained under section 5.508.2.]</b></p>	<p align="center"><input checked="" type="checkbox"/></p> <p>As applicable</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>



## INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS

*All checked  
items are  
required for  
the project*

*Select all  
measures  
verified in the  
completed  
project*

QUALIFICATIONS		A5.7	
<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"/>	<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"/>	<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 PRMD.

The owner/owner’s agent, design professional, Sonoma County Plans 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 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 <i>(Please Print)</i>	_____ Phone <i>(if different than above)</i>
_____ CALGreen Special Inspector's E-mail Address <i>(if different than above)</i>	_____ CALGreen Certification No.