

2013 CALGreen Checklist Nonresidential Additions and Alterations

BPC-041

SCOPE: The provisions of this checklist apply to nonresidential **building additions of 1,000 square feet or greater** and/or **building alterations with a permit valuation of \$200,000 or above**, and only apply to the portions of the building being added to or altered within the scope of the permitted work. The provisions of this checklist also apply to all tenant improvement projects meeting the criteria listed above. Repairs to existing structures are not subject to the requirements of CALGreen.

Newly constructed nonresidential buildings should use the CALGreen checklist for New Nonresidential Buildings.

(This checklist is based on 2013 CALGreen and has been revised to include County of Sonoma requirements.)

Project Address: _____

Project Name: _____

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 PRMD 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 <http://www.sonoma-county.org/prmd/docs/grnbldg/index.htm>.
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 that must be met and incorporated into the project.
4. Prior to final inspection by PRMD, the CALGreen Special Inspector shall complete **Column 3** and sign and date the **Implementation Verification** section at the end of this checklist.

[NOTE: *The Tier 1 and Tier 2 provisions of CALGreen do not apply to Addition and Alteration projects.]*

<p align="center">Column 1 Feature or Measure</p> <p align="center">NOTE <i>Listed measures are required where applicable to those portions of the building being added to or altered within the scope of the permitted work.</i></p> <p align="center"><i>See Chapter 5 of the 2013 California Green Building Code and the Sonoma County Code for complete descriptions of features or measures listed here</i></p>	<p align="center">Column 2 Mandatory Project Requirements</p> <p align="center"><i>All listed measures must be installed or incorporated into the project unless it is not applicable to the permitted work.</i> Select all applicable measures below</p>	<p align="center">Column 3 Verification</p> <p align="center"><i>Verification required by a third party County of Sonoma listed CALGreen Special Inspector</i> Complete after implementation and prior to final inspection approval</p>
<p align="center">MANDATORY MEASURES FOR ADDITIONS AND ALTERATIONS TO EXISTING NONRESIDENTIAL BUILDINGS</p>		
<p>PLANNING & DESIGN (Division 5.1)</p>	<p align="center"><i>Select all applicable measures for the project.</i></p>	<p align="center"><i>Select all measures <u>verified</u> in the completed project.</i></p>
<p>5.106.1 Storm water pollution prevention. Projects that 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><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>5.106.4 Bicycle parking. Comply with Sections 5.106.4.1.1 and 5.106.4.1.2.</p> <p>5.106.4.1.1 Short-term bicycle parking. If the project is anticipated to generate visitor traffic and adds 10 or more vehicular parking spaces, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of the additional visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack.</p> <p>5.106.4.1.2 Long-term bicycle parking. For buildings adding 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5% of the additional vehicular parking spaces added, with a minimum of one space.</p> <p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</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"><input type="checkbox"/></p>
<p>5.106.5.2 Designated parking for fuel-efficient vehicles. For projects that add 10 or more vehicular 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 based on the number of additional spaces.</p> <p>5.106.5.2.1 Parking stall marking. If applicable above, 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:</p> <p align="center">“ CLEAN AIR /VANPOOL / EV “</p> <p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</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"><input type="checkbox"/></p>
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<p align="center">Column 1 Feature or Measure</p> <p align="center">NOTE Listed measures are required where applicable to those portions of the building being added to or altered within the scope of the permitted work.</p> <p align="center"><i>See Chapter 5 of the 2013 California Green Building Code and the Sonoma County Code for complete descriptions of features or measures listed here</i></p>	<p align="center">Column 2 Mandatory Project Requirements</p> <p align="center"><i>All listed measures must be installed or incorporated into the project unless it is not applicable to the permitted work.</i> Select all applicable measures below</p>	<p align="center">Column 3 Verification</p> <p align="center"><i>Verification required by a third party County of Sonoma listed CALGreen Special Inspector</i> Complete after implementation and prior to final inspection approval</p>
<p>5.106.5.3 Electric Vehicle (EV) Charging. [N] When parking spaces are added or re-graded, infrastructure for EV charging shall be provided in accordance with Table 5.106.5.3.3. to facilitate the future installation of electric vehicle supply equipment (EVSE).</p> <p>5.106.5.3.1 When Single charging space is required. [N] When only a single charging space is <i>provided or</i> required pursuant to Table A5.106.5.3.1, the requirements of 5.106.5.3.1 are met.</p> <p>5.106.5.3.2 When Multiple charging spaces are required. [N] When multiple charging spaces are <i>provided or</i> required, pursuant to Table A5.106.5.3.1, the requirements of 5.106.5.3.1 are met.</p> <p>5.106.5.3.4 Identification. 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 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><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		
<p>5.106.8 Light pollution reduction. Outdoor lighting systems shall be designed and installed to comply with the following:</p> <ol style="list-style-type: none"> 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. 2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11. 3. Allowable BUG ratings not exceeding those shown in Table 5.106.8. <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code. 2. Emergency lighting. 	<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><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		
<p>5.106.10 Grading and Paving. For <u>projects altering the drainage path</u>, 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 below:</p> <ol style="list-style-type: none"> 1. Swales. 2. Water collection and disposal systems. 3. French drains 4. Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge. 	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

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<p>5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:</p> <p>5.303.3.1 Water closets. 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 Water Sense Specification for Tank-Type Toilets.</p> <p><i>Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.</i></p> <p>5.303.3.2 Urinals. The effective flush volume of urinals shall not exceed 0.5 gallons per flush.</p> <p>5.303.3.3 Showerheads.</p> <p>5.303.3.3.1 Single showerhead. 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 Water Sense Specification for Showerheads.</p> <p>5.303.3.3.2 Multiple showerheads serving one shower. 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><i>Note: A hand-held shower shall be considered a showerhead.</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"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
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<p>5.303.3.4 Faucets and Fountains</p> <p>5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.</p> <p>5.303.3.4.2 Kitchen faucets. 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>5.303.3.4.3 Wash fountains. 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>5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.</p> <p>5.303.3.4.5 Metering faucets for wash fountains. 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>Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.</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>5.303.4 & 5.303.6 Plumbing fixtures and fittings. Newly installed plumbing fixtures and fittings shall be installed in accordance with the CA Plumbing Code and shall meet the applicable standards referenced in Table 1401.1 of the CA Plumbing Code and Chapter 6 of this code.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		
<p>5.304 Outdoor Water Use</p> <p>5.304.1 Water budget. A water budget shall be developed for newly installed or rehabilitated landscaping or irrigation systems installed in conjunction with an addition or alteration new in accordance with Chapter 7D3 of the Sonoma County Code (Water Efficient Landscaping).</p> <p>5.304.2. Outdoor potable water use. For building additions or alterations requiring upgraded water service for landscaped areas of at least 1,000 square feet but not more than 5,000 square feet, separate submeters or metering devices shall be installed for outdoor potable water use.</p> <p>5.304.3 Irrigation design. In building additions or alterations with at least 1,000 square feet but not more than 2500 square feet of cumulative added or altered landscaped area (the level at which the MLO applies), install irrigation controllers and sensors which include the following criteria, and meet manufacturer's recommendations.</p> <p>5.304.3.1 Irrigation controllers. Automatic irrigation system controllers installed at the time of final inspection shall comply with the following:</p> <ol style="list-style-type: none"> 1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change. 2. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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<p>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY (Division 5.4)</p>		
<p>5.407 Weather Resistance and Moisture Management.</p> <p>5.407.1 Weather protection. When <u>adding or altering an exterior wall or foundation</u>, provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150 (mandatory Features and Devices) or manufacturer's installation instructions whichever is more stringent.</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		
<p>5.407.2 Moisture control. When <u>adding or altering irrigation sprinklers or entries and openings to a building</u>, employ moisture control measures by the following methods;</p> <p>5.407.2.1 Sprinklers. Prevent irrigation spray on structures.</p> <p>5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings.</p> <p>5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings, plus at least one of the following:</p> <ol style="list-style-type: none"> 1. An installed awning at least 4 feet in depth. 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. <p>5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.</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>5.408 Construction Waste Reduction, Disposal and Recycling.</p> <p>5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 50% of the nonhazardous construction waste in accordance with Section 5.408.1.1 or 5.408.1.2; or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.</p> <p>5.408.1.1 Construction waste management plan. Submit a construction waste management plan that complies with Items 1 through 4 of Section 5.408.1.1. (Support documentation required prior to permit issuance)</p> <p>5.408.1.2 Waste management company. 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.</p> <p>Exceptions to Sections 5.408.1.1 and 5.408.1.2:</p> <ol style="list-style-type: none"> 1. Excavated soil and land-clearing debris. 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. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets, where demolition of an existing structure(s) is necessary for the new construction. <p>5.408.1.3 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.1.1 through Section 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. (Support documentation required prior to permit issuance)</p>	<p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p>	<p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p>
<p>5.408.3 Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled.</p> <p>Exception: Reuse, either on- or off-site, of vegetation or soil contaminated by disease or pest infestation.</p>	<p style="text-align: center;"><input type="checkbox"/></p>	<p style="text-align: center;"><input type="checkbox"/></p>
<p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		
<p>5.410 Building Maintenance and Operation.</p> <p>5.410.1 Recycling by occupants. If not provided on the existing site, and <u>where site conditions permit</u>, provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of nonhazardous materials for recycling.</p> <p>5.410.1.1 Additions. All <u>additions</u> conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.</p> <p>Exception: Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.</p>	<p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p>	<p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p>

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<p>5.410.4 Testing and adjusting. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet. Applies to new systems serving additions or alterations.</p> <p>5.410.4.2 Systems. 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:</p> <ul style="list-style-type: none"> <input type="checkbox"/> HVAC systems and controls. <input type="checkbox"/> Indoor and outdoor lighting and controls. <input type="checkbox"/> Water heating systems. <input type="checkbox"/> Renewable energy systems. <input type="checkbox"/> Landscape irrigation systems. <input type="checkbox"/> Water reuse systems. <p>5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.</p> <p>5.410.4.3.1 HV AC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, balance the system in accordance with the procedures defined by national standards listed in Section 5.410.4.3.1 or as approved by the enforcing agency.</p> <p>5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.</p> <p>5.410.4.5 Operation and maintenance manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each added or altered system prior to final inspection.</p> <p>5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.</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> <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>ENVIRONMENTAL QUALITY (Division 5.5)</p>		
<p>5.503.1. 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>5.503.1.1 Woodstoves. Woodstoves shall comply with US EPA Phase II emission limits.</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		

POLLUTANT CONTROL		
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.504 Pollutant Control.</p> <p>5.504.1.3 Temporary ventilation. If the HV AC system serving the added or altered area(s) 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 of the HV AC system serving the added or altered area(s) immediately prior to occupancy.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.504.3 Covering of duct openings and protection of mechanical equipment during construction. 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>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.504.4 Finish material pollutant control. <u>Newly installed finish materials</u> shall comply with Sections 5.504.4.1 through 5.504.4.4.</p> <p>5.504.4.1 Adhesives, sealants, caulks. <u>Newly installed adhesives and sealants</u> used on the project shall meet the requirements of the following standards.</p> <ol style="list-style-type: none"> 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. in Division 5 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. 	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.504.4.3 Paints and coatings. <u>Newly installed architectural paints and coatings</u> shall comply with Table 5.504.4.3 in Division 5.5.</p> <p>5.504.4.3.1 Aerosol Paints and Coatings. <u>Newly installed aerosol paints and coatings</u> 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>5.504.4.3.2 Verification. Verification of compliance with this section shall be provided when requested by the enforcing agency.</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		

<p>5.504.4.4 Carpet systems. All <u>newly installed carpet</u> in the building interior shall meet the testing and product requirements of one of the standards listed in Section 5.504.4.4.</p> <p>5.504.4.4.1 Carpet cushion. All <u>newly installed carpet cushion</u> in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.</p> <p>5.504.4.4.2 Carpet adhesive. All <u>newly installed carpet adhesive</u> shall meet the requirements of Table 5.504.4.1 in Division 5.5.</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		
<p>5.504.4.5 Composite wood products. <u>Newly installed</u> 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 5.504.4.5 in Division 5.5.</p> <p>5.504.4.5.2 Documentation. Verification of compliance with this section shall be provided when requested by the enforcing agency. Documentation shall include at least one of the following as applicable.</p> <ol style="list-style-type: none"> 1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.) 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. 5. Other methods acceptable to the enforcing agency. 	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		
<p>5.504.4.6 Resilient flooring systems. For 80% of the floor area receiving <u>newly installed resilient flooring</u>, install resilient flooring which meets one of the following:</p> <ol style="list-style-type: none"> 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program. 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. 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. 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children’s & Schools Program). <p>5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. (Support documentation required prior to final inspection approval)</p>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		

<p>5.504.5.3 Filters. In <u>mechanically ventilated spaces serving additions or altered areas</u> of buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides a MERV of at least 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>Exceptions:</p> <ol style="list-style-type: none"> 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. 2. Existing mechanical equipment. <p>5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.</p>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.504.7 Environmental tobacco smoke (ETS) control. <u>Where outdoor areas are provided for smoking</u>, prohibit smoking (<i>by posting no smoking signage</i>) 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>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.505 Indoor Moisture Control.</p> <p>5.505.1 Indoor moisture control. Additions or altered spaces within buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.506 Air Quality and Exhaust.</p> <p>5.506.1 Outside air delivery. <u>Where newly installed, mechanically or naturally ventilated spaces in additions or altered spaces</u> within buildings, shall meet the minimum requirements of Section 121 of the California Energy Code and Chapter 4 of CCR, Title 8, or the applicable local code, whichever is more stringent.</p> <p>5.506.2 Carbon dioxide (CO₂) monitoring. For <u>additions equipped with demand control ventilation</u>, CO₂ 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>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		

<p>5.507 Environmental Comfort.</p> <p>5.507.4 Acoustical control. 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 5.07.4.1 or 5.507.4.2. (Support documentation required prior to permit issuance)</p> <p>5.507.4.1 Exterior noise transmission, Prescriptive Method. 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 <u>or</u> OITC of 30 in the locations described in Items 1 and 2.</p> <p>5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq}-1Hr 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>5.507.4.2 Exterior noise transmission, Performance Method. 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 (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.</p> <p>5.507.4.2.1 Site features. 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>5.507.4.2.2 Documentation of compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.</p>	<input type="checkbox"/> <i>Choose either Prescriptive or Performance method</i> <input type="checkbox"/> <input type="checkbox"/> or <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <i>Verify either Prescriptive or Performance method</i> <input type="checkbox"/> <input type="checkbox"/> or <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.507.4.3 Interior sound transmission. <u>Newly installed wall and floor-ceiling assemblies separating tenant spaces and public places</u> shall have an STC of at least 40.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		
<p>5.508 Outdoor Air Quality.</p> <p>5.508.1 Ozone depletion and greenhouse gas reductions. <u>New installations of HVAC, refrigeration, and fire suppression equipment</u> shall comply with Sections 5.508.1.1 and 5.508.1.2 below.</p> <p>5.508.1.1 Chlorofluorocarbons (CFCs.). Install HVAC, refrigeration and fire suppression equipment that does not contain CFCs.</p> <p>5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i>		

<p>5.508.2 Supermarket refrigerant leak reduction. <u>New commercial refrigeration systems</u> shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more 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>Exception: 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 (CO₂), and potentially other refrigerants.</p> <p>[NOTE: See all requirements for refrigerant piping, valves, refrigerated service cases, refrigerant receivers, pressure testing and system evacuation contained under section 5.508.2.]</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Description of proposed measure(s), location of where the measure(s) is shown on plans or explanation of why the measure is not applicable:</i></p>		
<p>INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS</p>		
<p>QUALIFICATIONS</p>	<p><i>All checked items are required for the project</i></p>	<p><i>Select all measures verified in the completed project</i></p>
<p>702.1 HVAC system installers (if any) are trained and certified in the proper installation of HVAC systems.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>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.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>VERIFICATIONS</p>		
<p>703.1 Verification of compliance with CALGreen for Nonresidential Additions and Alterations may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency that show substantial conformance. Implementation verification shall be submitted to PRMD after implementation of all required measures and prior to final inspection approval.</p>	<input checked="" 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 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 2013 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 _____

Check this box if the County-Listed CALGreen Special Inspector is yet to be determined. When this is the case, the owner or the owner’s agent is responsible for reviewing the plans for consistency with the CALGreen Checklist and contracting with an approved CALGreen Special Inspector prior to permit issuance.

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.

I have inspected the work and have received sufficient documentation to verify and certify that the project identified above was constructed in accordance with this Green Building Checklist and in accordance with the requirements set forth in the 2013 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.