



City of Sonoma

2019 CALGREEN+TIER 1 CHECKLIST

for

NEW RESIDENTIAL BUILDINGS

Scope: Applies to newly constructed low-rise residential buildings including hotels, motels, lodging houses, dwellings, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of dwellings with sleeping accommodations. Detached “U” occupancy buildings and repairs to existing structures are not subject to the requirements of CALGreen. Existing site and landscaping improvements that are not otherwise disturbed are also not subject to the requirements of CALGreen.

Residential addition and alteration projects should use the Residential Addition and Alteration CALGreen checklist.

APPENDIX A4

(Revised per City of Sonoma Requirements - Based on the 2019 CA Green Building Code (CALGreen) + Tier 1)

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 City of Sonoma Building Department, to perform CALGreen Special Inspector services and to verify and assure the Owner and the Building Department that all required work described herein is properly planned and implemented in the project. City listed CALGreen inspectors can be found on the City’s web site.
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 Building Department, CALGreen Special Inspector shall complete, sign and date **the Implementation Verification** in Section 2 at the end of this checklist and provide to the building Inspector.

NOTE: The City of Sonoma has adopted the Tier 1 provisions of CALGreen as mandatory requirements which must be implemented in the project except that the Tier 1 Energy Efficiency measures provided in Section A4.2 have not been adopted by the City of Sonoma and need not be met.

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>A4.1 PLANNING AND DESIGN</p>	<p><i>All checked items are required for the project</i></p>	<p><i>Select at least two (2) elective measures from A4.1</i></p>
<p>Site Selection</p>		<p align="center">A4.1</p>
<p>A4.103.1 A site which complies with at least one of the following characteristics is selected:</p> <ol style="list-style-type: none"> 1. An infill site is selected. 2. A greyfield site is selected. 3. An EPA-recognized Brownfield site is selected. 		<p align="center"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </p>
<p>A4.103.2 Facilitate community connectivity by one of the following methods:</p> <ol style="list-style-type: none"> 1. Locate project within a 1/4-mile true walking distance of at least 4 basic services; 2. Locate project within 1/2-mile true walking distance of at least 7 basic services; 3. Other methods increasing access to additional resources. 		<p align="center"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </p>
<p><i>If any Site Selection measures above are elected, please provide an explanation of compliance.</i></p>		
<p>Site Preservation</p>		<p align="center">A4.1</p>
<p>A4.104.1 An individual with oversight responsibility for the project has participated in an educational program promoting environmentally friendly design or development and has provided training or instruction to appropriate entities.</p>		<p align="center"> <input type="checkbox"/> </p>
<p><i>If the Site Preservation measure above is elected, please provide an explanation of compliance.</i></p>		
<p>Deconstruction and Reuse of Existing Materials</p>		<p align="center">A4.1</p>
<p>A4.105.2 Existing buildings are disassembled for reuse or recycling of building materials. The proposed structure utilizes <u>at least one</u> of the following materials which can be easily reused:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 1. Light fixtures <input type="checkbox"/> 2. Plumbing fixtures <input type="checkbox"/> 3. Doors and trim <input type="checkbox"/> 4. Masonry <input type="checkbox"/> 5. Electrical devices <input type="checkbox"/> 6. Appliances <input type="checkbox"/> 7. Foundations or portions of foundations 		<p align="center"> <input type="checkbox"/> </p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>Site Development</p>		<p align="center">A4.1</p>
<p>4.106.2 A plan is developed and implemented to manage storm water drainage during construction. See Sonoma Municipal Code Chapter 13.32 (Stormwater Management and Discharge Control) for additional requirements.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p>A4.106.2.1 Soil analysis is performed by a licensed design professional and the findings utilized in the structural design of the building.</p>		<p align="center"><input type="checkbox"/></p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>A4.106.2.2 Soil disturbance and erosion are minimized by at least one of the following:</p> <ol style="list-style-type: none"> 1. Natural drainage patterns are evaluated and erosion controls are implemented to minimize erosion during construction and after occupancy. 2. Site access is accomplished by minimizing the amount of cut and fill needed to install access roads and driveways. 3. Underground construction activities are coordinated to utilize the same trench, minimize the amount of time the disturbed soil is exposed and the soil is replaced using accepted compaction methods. 		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>A4.106.2.3 Displaced topsoil is stockpiled for reuse and covered and protected from erosion. (Tier 1 Prerequisite)</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p>4.106.3 Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p>A4.106.3 Post construction landscape designs accomplish one or more of the following:</p> <ol style="list-style-type: none"> 1. Areas disrupted during construction are restored to be consistent with native vegetation species and patterns. 2. Utilize at least 75 percent native Californian or drought tolerant plant and tree species appropriate for the climate zone region. 		<p align="center"><input type="checkbox"/></p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>4.106.4 Provide capability (raceway & sufficiently sized service panel) for electrical vehicle charging in one- and two-family dwellings; townhouses with attached private garages; multifamily dwellings; and hotel/motels in accordance with Sections 4.106.4.1, 4.106.4.2 and 4.106.4.3; as applicable. (See A4.106.8.1 & A4.106.8.2 for additional requirements) <i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>	<input checked="" type="checkbox"/>	
<p>A4.106.4 Permeable paving is utilized for not less than 20 percent of the total parking, walking, or patio surfaces. (Tier 1 Prerequisite) <i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>	<input checked="" type="checkbox"/>	
<p>A4.106.5 Roofing materials for high rise residential buildings and hotels and motels shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum aged Solar Reflectance Index (SRI) equal to or greater than the values specified in Tables A4.106.5.1(1) and A4.106.5.1(3) as applicable. (Tier 1 Prerequisite) <i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>	<input checked="" type="checkbox"/>	
<p>A4.106.6 Install a vegetated roof for at least 50 percent of the roof area. Vegetated roofs shall comply with requirements for roof gardens and landscaped roofs in the California Building Code, Chapters 15 and 16. <i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		<input type="checkbox"/>
<p>A4.106.7 Reduce nonroof heat islands for 50 percent of sidewalks, patios, driveways or other paved areas by using one or more of the methods listed in A4.106.7. <i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		<input type="checkbox"/>
<p>A4.106.8.1 For one- and two-family dwellings and townhouses with attached private garages, install a dedicated 208/240-volt branch circuit, including an overcurrent protective device rated at 40 amperes minimum per dwelling unit for future EV charging. (Tier 1 Prerequisite) <i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>	<input checked="" type="checkbox"/>	
<p>A4.106.8.2 Provide capability (raceway & sufficiently sized service panel) for future electrical vehicle charging in new multi-family dwellings, in 15 percent of total parking spaces, as specified. (Tier 1 Prerequisite) <i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>	<input checked="" type="checkbox"/>	
<p>A4.106.8.3 Provide electric vehicle spaces for new hotels and motels per table A4.106.8.3.1. (Tier 1 Prerequisite) <i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>	<input checked="" type="checkbox"/>	

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p><i>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</i></p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>A4.106.9 Provide bicycle parking facilities as noted below. Number of bicycle parking spaces may be reduced, as approved by the enforcing agency, due to building site characteristics, including but not limited to, isolation from other development.</p> <ol style="list-style-type: none"> 1. Provide short-term bicycle parking, per Section A4.106.9.1. 2. Provide long-term bicycle parking for multifamily buildings, per Section A4.106.9.2. 3. Provide long-term bicycle parking for hotel and motel buildings, per Section A4.106.9.3. 		<p align="center"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>A4.106.10 [HR] Outdoor lighting systems shall be designed and installed to comply with:</p> <ol style="list-style-type: none"> 1. The minimum requirements in the California Energy Code for Lighting Zones 1-4; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IES TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table A4.106.10; or <p>Comply with a lawfully enacted local ordinance, whichever is lawfully enacted local ordinance, whichever is more stringent.</p>		<p align="center"> } <input type="checkbox"/> or <input type="checkbox"/> </p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Innovative Concepts and Local Environmental Conditions</p>		<p align="center">A4.1</p>
<p>A4.108.1 Items in this section are necessary to address innovative concepts or local environmental conditions These items must be approved by the Building Department prior to listing here.</p>		
<p>Item 1:</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>A4.2 ENERGY EFFICIENCY</p>		
<p>4.201.1 Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <i>[NOTE: Tier 1 Energy Efficiency Measures prescribed in Section A4.2 have not been adopted by the City of Sonoma.]</i></p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><i>No elective measures from A4.2 are required</i></p>

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p align="center">A4.3 WATER EFFICIENCY AND CONSERVATION</p>	<p align="center"><i>All checked items are required</i></p>	<p align="center"><i>Select at least two(2) elective measure from A4.3</i></p>
		<p>Indoor Water Use</p>
<p>4.303.1 Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4.</p>	<input checked="" type="checkbox"/>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p>4.303.1.4.3 Metering faucets in residential buildings shall not deliver more than 0.2 gallons per cycle.</p>	<input checked="" type="checkbox"/>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		
<p>4.303.2 Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code, and shall meet the applicable referenced standards.</p>	<input checked="" type="checkbox"/>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p>A4.303.1 Kitchen sink faucet shall have a maximum flow rate not greater than 1.5 gallons per minute at 60 psi. (Tier 1 Prerequisite) (<i>See exceptions</i>)</p>		<input type="checkbox"/>
<p>A4.303.2 Alternate water source for nonpotable applications. Alternate nonpotable water sources are used for indoor potable water reduction. Alternate nonpotable water sources shall be installed in accordance with the <i>California Plumbing Code</i>. (Tier 1 Prerequisite)</p>		<input type="checkbox"/>
<p>A4.303.3 Install at least one qualified ENERGY STAR dishwasher and clothes washer.</p>		<input type="checkbox"/>
<p>A4.303.4 Nonwater supplied urinals or waterless toilets are installed.</p>		<input type="checkbox"/>
<p>A4.303.5 One- and two-family dwellings shall be equipped with a demand hot water recirculation system.</p>		<input type="checkbox"/>
<p><i>If any of Indoor Water Use elective measures above is selected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Outdoor Water Use</p>		<p align="center">A4.3</p>
<p>4.304.1 Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.</p>	<input checked="" type="checkbox"/>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>A4.304.1 An approved rainwater catchment system is designed and installed to use rainwater generated by at least 65 percent of the available roof area. Rainwater catchment systems shall be designed and installed in accordance with the California Plumbing Code.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.304.2 A landscape design is installed which does not use potable water.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.304.3 For new water service connections, landscaped irrigated areas less than 5,000 square feet shall be provided with separate submeters or metering devices for outdoor potable water use.</p>		<p align="center"><input type="checkbox"/></p>
<p><i>If any of Outdoor Water Use elective measures above is selected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Water Reuse Systems</p>		<p align="center">A4.3</p>
<p>4.305.1 Newly constructed residential developments where disinfected tertiary recycled water is available from a municipal source to a construction site, may be required to have recycled water supply systems installed allowing the use of recycled water for residential landscaping and irrigation systems.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		
<p>A4.305.1 Piping is installed to permit future use of a graywater irrigation system served by the clothes washer or other fixtures.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.305.2 Recycled water piping is installed.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.305.3 Recycled water is used for landscape irrigation.</p>		<p align="center"><input type="checkbox"/></p>
<p><i>If any of Water Reuse Systems elective measures above is selected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Innovative Concepts and Local Environmental Conditions</p>		<p align="center">A4.3</p>
<p>A4.306.1 Items in this section are necessary to address innovative concepts or local environmental conditions. These items must be approved by the Building Department prior to listing here.</p>		
<p>Item 1:</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>Item 2:</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p align="center">A4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</p>	<p><i>All checked items are required</i></p>	<p><i>Select at least two (2) elective measures from A4.4</i></p>
<p>Foundation Systems</p>		<p align="center">A4.4</p>
<p>A4.403.1 A Frost-Protected Shallow Foundation (FPSF) is designed and constructed.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.403.2 Cement use in foundation mix design is reduced by not less than a 20 percent. (Tier 1 Prerequisite)</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		
<p>Efficient Framing Techniques</p>		<p align="center">A4.4</p>
<p>A4.404.1 Beams and headers and trimmers are the minimum size to adequately support the load.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.404.2 Building dimensions and layouts are designed to minimize waste.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.404.3 Use pre-manufactured building systems to eliminate solid sawn lumber whenever possible.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.404.4 Material lists are included in the plans which specify material quantity and provide direction for on-site cuts.</p>		<p align="center"><input type="checkbox"/></p>
<p><i>If any of Efficient Framing Techniques elective measures above is selected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Material Sources</p>		<p align="center">A4.4</p>
<p>A4.405.1 <u>One</u> or more of the following building materials, that do not require additional resources for finishing are used:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Exterior trim not requiring paint or stain. <input type="checkbox"/> Windows not requiring paint or stain. <input type="checkbox"/> Siding or exterior wall coverings which do not require paint or stain. 		<p align="center"><input type="checkbox"/></p>
<p>A4.405.2 Floors that do not require additional coverings are used including but not limited to stained, natural, or stamped concrete floors.</p>		<p align="center"><input type="checkbox"/></p>
<p><i>If any of Material Sources elective measures above is selected, indicate the plan sheet number where the measure is noted on plans.</i></p>		

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<p><i>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</i></p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>A4.405.3 Postconsumer or preconsumer recycled content value (RCV) materials are used for a minimum of 10 percent of the total value, based on the total estimated cost of materials on the project. (Tier 1 Prerequisite) <i>[Search CalRecycle for more information]</i></p>	<input checked="" type="checkbox"/>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		
<p>A4.405.4 Renewable source building products are used.</p>		<input type="checkbox"/>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Enhanced Durability and Reduced Maintenance</p>		<p>A4.4</p>
<p>4.406.1 Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.</p>	<input checked="" type="checkbox"/>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		
<p>Water Resistance and Moisture Management</p>		<p>A4.4</p>
<p>A4.407.1 Install foundation and landscape drains.</p>		<input type="checkbox"/>
<p>A4.407.2 Install gutter and downspout systems to route water at least 5 feet away from the foundation or connect to landscape drains which discharge to a dry well, sump, bioswale, rainwater capture system or other approved on-site location.</p>		<input type="checkbox"/>
<p>A4.407.3 Provide flashing details on the building plans and comply with accepted industry standards or manufacturer's instructions.</p>		<input type="checkbox"/>
<p>A4.407.4 Protect building materials delivered to the construction site from rain and other sources of moisture.</p>		<input type="checkbox"/>
<p>A4.407.6 Exterior doors to the dwelling are protected to prevent water intrusion.</p>		<input type="checkbox"/>
<p>A4.407.7 A permanent overhang or awning at least 2 feet in depth is provided.</p>		<input type="checkbox"/>
<p><i>If any of Water Resistance and Moisture Management elective measures above is selected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Construction Waste Reduction, Disposal and Recycling</p>		
<p>A4.408.1 Construction waste generated at the site is diverted to recycle or salvage in compliance with at least a 65 percent reduction, with third party verification. Verification of diversion rates shall meet minimum certification eligibility guidelines, acceptable to the local enforcing agency. (Tier 1 Prerequisite)</p>	<input checked="" type="checkbox"/>	

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<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p>Building Maintenance and Operation</p>		
<p>4.410.1 An operation and maintenance manual shall be provided to the building occupant or owner.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p>4.410.2 Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serve all buildings on the site and is identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p>Innovative Concepts and Local Environmental Conditions</p>		
<p>A4.411.1 Items in this section are necessary to address innovative concepts or local environmental conditions.</p>		<p align="center">A4.4</p>
<p>Item 1:</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>Item 2:</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p align="center">A4.5 ENVIRONMENTAL QUALITY</p>		<p align="center">All checked items are required</p> <p align="center">Select at least one (1) elective measure from A4.5</p>
<p>Fireplaces</p>		
<p>4.503.1 Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove meeting the requirements of U.S. EPA New Source Performance Standards (NSPS) emission limits and Sonoma Municipal Code Chapter 14.28 (Wood-Burning Appliances)¹.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center">A4.5</p>
<p><i>Indicate the plan sheet number where the measure above is noted on plans.</i></p>		
<p>Pollutant Control</p>		
<p>4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center">A4.5</p>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		

¹ Modified to conform with Chapter 14.28 of the Sonoma Municipal Code

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.</p>	<input checked="" type="checkbox"/>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits.</p>	<input checked="" type="checkbox"/>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>4.504.2.3 Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds.</p>	<input checked="" type="checkbox"/>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used.</p>	<input checked="" type="checkbox"/>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>4.504.3 Carpet and carpet systems shall be compliant with VOC limits.</p>	<input checked="" type="checkbox"/>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>4.504.4 (NOT USED) See A4.504.2 below.</p>		
<p>4.504.5 Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.</p>	<input checked="" type="checkbox"/>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>A4.504.1 Use composite wood products made with either California Air Resources Board approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.</p>		<input type="checkbox"/>
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>A4.504.2 Ninety (90) percent of floor area receiving resilient flooring shall comply with the VOC-emission limits established in section A4.504.2. (Tier 1 Prerequisite)</p>	<input checked="" type="checkbox"/>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>A4.504.3 Install thermal insulation in compliance with the VOC-emission limits established in section A4.504.3. (Tier 1 Prerequisite)</p>	<input checked="" type="checkbox"/>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>Interior Moisture Control</p>		<p align="center">A4.5</p>
<p>4.505.2 Vapor retarder and capillary break is installed at slab on grade foundations.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		
<p>4.505.3 Moisture content of building materials used in wall and floor framing is checked before enclosure.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>If the measure above is required or elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Indoor Air Quality and Exhaust</p>		<p align="center">A4.5</p>
<p>4.506.1 Each bathroom (with tub or shower) shall be provided with the following: 1) ENERGY STAR fans ducted to the outside of the building; and 2) Fans must be controlled by a humidity control or functioning as a component of a whole house ventilation system; and 3) Humidity controls must have a manual or automatic means of adjustment capable of adjustment between a relative humidity range of less than or equal to 50% to a maximum of 80%.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		
<p>A4.506.1 Reserved [Not Used]</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.506.2 [HR] Provide filters on return air openings rated MERV 8 or higher during construction when it is necessary to use HVAC equipment.</p>		<p align="center"><input type="checkbox"/></p>
<p>A4.506.3 Direct vent appliances are used unless the equipment is isolated from the conditioned space in a mechanical room.</p>		<p align="center"><input type="checkbox"/></p>
<p><i>If any of Indoor Air Quality and Exhaust elective measures above is selected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p>Environmental Comfort</p>		<p align="center">A4.5</p>
<p>4.507.2. Duct systems are sized and designed and equipment is selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2016 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D - 2016 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p><i>Indicate the plan sheet number where the measure above is noted on plans or indicate if not applicable.</i></p>		

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>	
<p>See Chapter 4 and Appendix A4 of the 2019 California Green Building Code and Sonoma Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.</p>	<p>Mandatory & Tier 1 Prerequisites</p>	<p>Tier 1 electives <i>Applicant selects required elective measures</i></p>
<p>Innovative Concepts and Local Environmental Conditions</p>		<p align="center">A4.5</p>
<p>A4.509.1 Items in this section are necessary to address innovative concepts or local environmental conditions.</p>		
<p>Item 1:</p>		<p align="center"><input type="checkbox"/></p>
<p>Item 2:</p>		<p align="center"><input type="checkbox"/></p>
<p>Item 3:</p>		<p align="center"><input type="checkbox"/></p>
<p><i>If a measure above is elected, indicate the plan sheet number where the measure is noted on plans.</i></p>		
<p align="center">INSTALLER AND CALGreen SPECIAL INSPECTOR QUALIFICATIONS</p>		
<p>Qualifications</p>		<p align="center">A4.7</p>
<p>702.1 HVAC system installers are trained and certified in the proper installation of HVAC systems.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p>702.2 The CALGreen Special Inspector for this project is listed by the City of Sonoma as an authorized CALGreen Special Inspector and is qualified and able to demonstrate competence in the discipline they inspect and verify.</p>	<p align="center"><input checked="" type="checkbox"/></p>	
<p>Verifications</p>		<p align="center">A4.7</p>
<p>703.1 Verification of compliance with CALGreen +Tier 1 may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance. Implementation verification shall be submitted to the Building Department after implementation of all required measures and prior to final inspection approval.</p>	<p align="center"><input checked="" type="checkbox"/></p>	

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 the Building Department.

The owner, design professional and the Sonoma approved CALGreen special inspector (**all signatures required**) have reviewed the plans and certify that the items checked above are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2019 California Green Building Standards Code as amended by Chapter 14.10 of the Sonoma Municipal Code.

All Signatures Required

Owner's Signature

Date

Owner Name (Please Print)

Design Professional's Signature

Date

Design Professional's Name (Please Print)

Sonoma Authorized CALGreen Special Inspector's **Signature**

Date

Sonoma Authorized CALGreen Special Inspector's **Name** (Please Print)

Phone

Sonoma Authorized CALGreen Special Inspector's **E-mail Address**

CALGreen Certification No.

Section 2 - Implementation Verification

Complete, sign and submit the completed checklist, including Column 3, together with all original signatures on Section 2 – "Implementation Verification" to the Building Department prior to Building Department 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 2019 California Green Building Standards Code as amended by Chapter 14.10 of the Sonoma Municipal Code.

Sonoma Authorized CALGreen Special Inspector's **Signature**

Date

Sonoma Authorized CALGreen Special Inspector's **Name** (Please Print)

Phone (if different than above)

Authorized CALGreen Special Inspector's E-mail Address (if different than above)

CALGreen Certification No.