



NONRESIDENTIAL 2016 CALGreen+Tier 1 Checklist

(Revised per CALGreen Supplement and City of Santa Rosa Requirements - Based on CALGreen + Tier 1)

Applies to building permit applications received on or after January 1, 2017, for newly constructed nonresidential buildings

Project Address: _____

Project Name: _____

Project Description: _____

Building Permit #: _____

Instructions:

1. The Owner or the Owner's agent shall employ an ICC certified CALGreen Inspector, listed by the City of Santa Rosa Building Division, to perform CALGreen Inspector services and to verify and assure the Owner and the Building Division that all required work described herein is properly planned and implemented in the project.
2. The CALGreen 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 Inspector, in collaboration with the owner and the design professional shall initially complete **Columns 1 and 2** of this checklist, sign and date the **CALGreen Building Acknowledgements** section at the end of this checklist and have the checklist printed on or attached to the approved plans for the project.
4. Prior to final inspection by the Building Division, CALGreen Inspector, except where verification by City is noted, shall complete **Column 3** and provide verification of completion prior to final inspection by City staff.

Feature or Measure	Project Requirements		Verification
<u>Column 1</u>	<u>Column 2</u> <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i>		<u>Column 3</u> <i>Complete after implementation and prior to final inspection approval</i>
<i>See Chapter 5 and Appendix A5 of the 2016 California Green Building Code and Santa Rosa City Code Chapter 18 for complete descriptions of features or measures listed here.</i>	Mandatory & Tier 1 Prerequisites	Tier 1 electives <i>Applicant selects required elective measures</i>	Verification by a 3rd party CALGreen Inspector or by City staff as noted
PLANNING AND DESIGN	<i>All checked items are required for the project</i>	<i>Select at least one (1) elective measure from A5.1</i>	<i>Select all measures verified in the completed project</i>
SECTION A5.103 SITE SELECTION			
A5.103.1 Community connectivity. Locate project on a previously developed site within a 1/2 mile radius of at least ten basic services, listed in Section A5.103.1. : (Support documentation required at application submittal)		<input type="checkbox"/>	CALGreen Inspector <input type="checkbox"/>

Feature or Measure	Project Requirements		Verification
<p>A5.103.2 Brownfield or greyfield site redevelopment or infill area development. If feasible select for development a brownfield in accordance with Section A5.103.2.1 or on a greyfield or infill site as defined in Section A5.102.</p> <p>A5.103.2.1 Brownfield redevelopment. Develop a site documented as contaminated and fully remediated or on a site defined as a brownfield.</p>		<input type="checkbox"/>	City Plan Check staff <input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
<p>SECTION A5.104 SITE PRESERVATION</p>			
<p>A5.104.1 Reduce development footprint and optimize open space. Optimize open space on the project site in accordance with Sections A5.104.1.1, A5.104.1.2 or A5.104.1.3.</p> <p>A5.104.1.1 Local zoning requirement in place. Exceed the zoning's open space requirement for vegetated open space on the site by 25 percent.</p> <p>A5.104.1.2 No local zoning requirement in place. Provide vegetated open space area adjacent to the building equal to the building footprint area.</p> <p>A5.104.1.3 No open space required in zoning ordinance. Provide vegetated open space equal to 20 percent of the total project site area.</p>		<input type="checkbox"/>	City Plan Check staff <input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
<p>SECTION A5.106 SITE DEVELOPMENT</p>			
<p>5.106.1 Storm water pollution prevention plan. Newly constructed projects which disturb less than one acre of land shall prevent the pollution of storm water runoff from the construction activities by complying with lawfully enacted storm water management and/or erosion control ordinances. See Santa Rosa City Code Chapter 17-12.</p>	<input checked="" type="checkbox"/>		City Plan Check Staff <input type="checkbox"/>
<p><i>Description of proposed measures:</i></p>	<p style="text-align: right;"><i>Sheet: Detail:</i></p>		
<p>A5.106.2 Storm water design. Design storm water runoff rate and quantity in conformance with Section A5.106.2.1 and storm water runoff quality by Section A5.106.2.2, or by local requirements, whichever are stricter.</p> <p>A5.106.2.1 Storm water runoff rate and quantity. Implement a storm water management plan resulting in no net increase in rate and quantity of storm water runoff from existing to developed conditions.</p> <p>A5.106.2.2 Storm water runoff quality. Use post construction treatment control best management practices (BMPs) to mitigate (infiltrate, filter, or treat) storm water runoff from the 85th percentile 24-hour runoff event (for volume-based BMPs) or the runoff produced by a rain event equal to two times the 85th percentile hourly intensity (for flow-based BMPs).</p>		<input type="checkbox"/>	City Plan Check Staff <input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Description of proposed measures:</i></p>	<p style="text-align: right;"><i>Sheet: Detail:</i></p>		
<p>A5.106.3 Low impact development (LID). Reduce peak runoff in compliance with Section 5.106.3.1. Employ <u>at least two</u> of the following methods or other best management practices to allow rainwater to soak into the ground, evaporate into the air, or collect in storage receptacles for irrigation or other beneficial uses. LID strategies include but are not limited to those listed in A5.106.4.</p> <ol style="list-style-type: none"> 1. Bioretention (rain gardens)/filtration planters; 2. Cisterns and rain barrels; 3. Green roofs; 		<input type="checkbox"/>	City Plan Check staff <input type="checkbox"/>
		Min. of 2 <input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

Feature or Measure	Project Requirements		Verification
4. Roof leader or impervious area disconnection; 5. Permeable and porous paving; 6. Vegetative swales and filter strips; tree preservation; and 7. Tree preservation and tree plantings; 8. Landscaping soil quality; 9. Stream buffer 10. Volume retention suitable for previously developed sites. A5.106.3.2 Greyfield or infill site. Manage 40 percent of the average annual rainfall on the site's impervious surfaces through infiltration, reuse or evapotranspiration.		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet: Detail:</i>		
5.106.4 Bicycle parking. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. 5.106.4.1 Bicycle parking. Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet with the applicable local ordinance, whichever is stricter. 5.106.4.1.1 Short-term bicycle parking. 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 spaces being added, with a minimum of one two-bike capacity rack. 5.106.4.1.2 Long-term bicycle parking. For new buildings with 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces with a minimum of one space. Acceptable parking facilities shall be convenient from the street and shall meet on of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		City Plan Check staff <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet: Detail:</i>		
A5.106.4.3 Changing rooms. For buildings with over 10 tenant-occupants, provide changing/shower facilities in accordance with Table A5.106.4.3, or document arrangements with nearby changing/shower facilities.		<input type="checkbox"/>	City Plan Check staff <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet: Detail:</i>		
A5.106.5.1 Designated parking for clean air vehicles. Provide 10% of designated parking of total designated parking spaces for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as shown in Table A5.106.5.1.1. (Tier 1) Note: Supersedes 5.106.5.2 5.106.5.1.3 Parking stall marking. Paint, in the paint used for stall striping, 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	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		City Plan Check staff <input type="checkbox"/> <input type="checkbox"/>

Feature or Measure	Project Requirements		Verification
<ol style="list-style-type: none"> 1. Use of on street parking or compact spaces, illustrated on the site plan, or 2. Implementation and documentation of programs that encourage occupants to carpool, ride share, or use alternate transportation. 			
<p>A5.106.7 Exterior wall shading. Meet requirements in the current edition of the California Energy Code and with either A5.106.7.1 or A5.106.7.2 select one of the following for wall surfaces:</p> <p>A5.106.7.1 Fenestration. Provide vegetative or man-made shading devices for all fenestration on east-, south- and west-facing walls.</p> <p>A5.106.7.1.1 East and west walls. Shading devices shall have 30% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less.</p> <p>A5.106.7.1.2 South walls. Shading devices shall have 60% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less.</p> <p>A5.106.7.2 Opaque wall areas. Use wall surfacing with SRI 25 (aged), for 75% of opaque wall areas.</p>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>CALGreen Inspector</p> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<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 Zone 2 as defined in Chapter 10 of the California Administrative Code; 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 5106.8 <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Luminaires that qualify as exceptions in the California Energy Code. 2. Emergency lighting. 	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p><i>Description of proposed measures:</i></p>	<p style="text-align: right;"><i>Sheet: Detail:</i></p>		
<p>5.106.10 Grading and Paving. 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 swales, water collection and disposal systems, French drains, water retention gardens or other measures which keep surface water away from buildings and aid in groundwater recharge.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p><i>Description of proposed measures:</i></p>	<p style="text-align: right;"><i>Sheet: Detail:</i></p>		
<p>A5.106.11 Heat island effect. Reduce non-roof heat islands, and roof heat islands as follows:</p> <p>A5.106.11.1 Hardscape alternatives. Use <u>one</u> or a combination of strategies 1 and 2 for 50 percent of site hardscape <u>or</u> put 50 percent of parking underground.</p> <ol style="list-style-type: none"> 1. Use light colored materials with an initial solar reflectance value of at least 30 as determined in accordance with ASTM Standards E1918 or C1549. 2. Use open-grid pavement system or pervious or permeable pavement system. <p>A5.106.11.2 Cool Roof. Use roofing materials having a minimum 3-year aged solar reflectance and thermal emittance complying with Sections A5.106.11.2.1 and A5.106.11.2.2 or a minimum aged Solar Reflectance Index (SRI) equal to or greater than the values shown in Table A5.106.11.2.2 - Tier 1.</p>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

Feature or Measure	Project Requirements		Verification
ENERGY EFFICIENCY			
SECTION 5.201 PERFORMANCE REQUIREMENTS	<i>All checked items are required for the project</i>	<i>No elective measures required from A5.2</i>	<i>Select all measures verified in the completed project</i>
5.201.1 Scope. Building meets or exceeds the requirements of the California Building Energy Code.	<input checked="" type="checkbox"/>		
<i>Description of proposed measures:</i>	<i>Sheet: Detail:</i>		
WATER EFFICIENCY AND CONSERVATION			
SECTION 5.303 INDOOR WATER USE	<i>All checked items are required for the project</i>	<i>Select at least one (1) elective measure from A5.3</i>	<i>Select all measures verified in the completed project</i>
5.303.1 Meters. Separate meters shall be installed for the uses described in Sections 503.1.1 and 503.1.2. 5.303.1.1 For buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: 1. For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gal/day. 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems: a. Makeup water for cooling towers where flow through is greater than 500 gpm b. Makeup water for evaporative coolers greater than 6 gpm c. Steam and hot-water boilers with energy input more than 500,000 Btu/hr 5.303.1.2 Excess consumption. Any building within a project or space within a building that is projected to consume more than 1,000 gal/day.	<input checked="" type="checkbox"/>		CALGreen Inspector <input type="checkbox"/>
<i>Description of proposed measures:</i>	<i>Sheet: Detail:</i>		
A5.303.2.3.1 Tier 1 – 12-percent savings. A schedule of plumbing fixtures and fixture fitting that will reduce the overall use of potable water within the building by 12 percent shall be provided. The reduction shall be based on the maximum allowable water use per plumbing fixture and fitting as required by the <i>California Building Standards Code</i> . The 12-percent reduction in potable water use shall be demonstrated by one of the following methods: 1. Prescriptive method. Each plumbing fixture and fitting shall not exceed the maximum flow rate greater than or equal to 12-percent reduction as specified in Table A5.303.2.3.1; or 2. Performance method. A calculation demonstrating a 12-percent reduction in the building “water use baseline” as established in Table A5.303.2.2 shall be provided. A5.303.2.3.4 Nonpotable water systems for indoor use. Utilizing nonpotable water systems (such as captured rainwater, treated gray water, and recycled water) intended to supply water closets, urinals, and other allowed uses, may be used in the calculations demonstrating the 12% reduction. The nonpotable water systems shall comply with the current edition of the California Plumbing Code.	<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CALGreen Inspector <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Feature or Measure	Project Requirements		Verification
<p>A5.303.3 Appliances and fixtures for commercial application. Appliances and fixtures shall meet the following:</p> <ol style="list-style-type: none"> 1. Clothes washers shall have a maximum Water Factor (WF) that will reduce the use of water by 10% below the California Energy Commissions WF standards. 2. Dishwashers shall meet the criteria in A5.303.3(2)(a) & (b) 3. Ice makers shall be air cooled. 4. Food steamers shall be connection-less or boiler-less and shall consume not more than 2 gph per pan 5. The use and installation of water softeners shall be limited or prohibited by local agencies. 6. Combination ovens shall not consume more than 1.5 gph per pan, including condensate water. 7. Commercial pre-rinse spray valves manufactured on or before January 1, 2006 shall function at equal to or less than 1.6 gpm at 60 psi and be capable of cleaning 60 plates in 30 seconds per plate, be equipped with an integral automatic shutoff, and operate at static pressure of at least 30 psi when designed for a flow rate of 1.3 gpm or less. 8. Food waste pulping systems shall use no more than 2 gpm of potable water. <p>8.1 Note: potable water excludes on-site graywater use, such as dishwasher discharge water.</p>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>CALGreen Inspector</p> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<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 WaterSense Specification for Tank - Type Toilets. 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.</p> <p>5.303.3.2 Urinals</p> <p>5.303.3.2.1 Wall Mounted urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.</p> <p>5.303.3.2.2 Floor-mounted urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.</p> <p>5.303.3.3 Showerheads</p> <p>5.303.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 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>5.303.3.2 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. Note: A hand-held shower shall be considered a showerhead.</p> <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 minutes 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>	<input checked="" type="checkbox"/> or <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Feature or Measure	Project Requirements		Verification
<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 cycle/20 [rim space (inches) 60 psi].</p>	☒		☐
<p>A5.303.5 Dual plumbing. New buildings and facilities shall be dual plumbed for potable and recycled water systems for toilet flushing when recycled water is available.</p>		☐	<p>CALGreen Inspector</p> ☐
<p><i>Description of proposed measures:</i></p>	<p><i>Sheet: Detail:</i></p>		
<p>5.303.6 Standards for plumbing fixtures and fitting. Plumbing fixtures and fittings shall be installed in accordance with the <i>California Plumbing Code</i>, and shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> and in Chapter 6 of this code.</p>	☒		<p>CALGreen Inspector</p> ☐
<p>SECTION 5.304 OUTDOOR WATER USE See City of Santa Rosa Water Efficient Landscape Ordinance Requirements (Note: City WELO Complies with Tier I & Mandatory Requirements)</p>			<p>All verification by City Water Efficient Landscape Ordinance Staff</p>
<p>5.304.1 Water budget. A water budget shall be developed for landscape irrigation use in accordance with Chapter 14.30 of the Santa Rosa City Code – Water Efficient Landscape.</p>	☒		☐
<p>5.304.2 Outdoor potable water use. For new water service, separate meters or submeters shall be installed for indoor and outdoor potable water use for landscaped areas. See Santa Rosa City Code Chapter 14.30</p>	☒		☐
<p>5.304.3 Irrigation design. In new nonresidential projects with at least 1000 but not more than 2500 square feet of landscaped area, 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. 	☒		☐
<p>A5.304.6 Restoration of areas disturbed by construction. Restore all landscape areas disturbed during construction by planting with local native and/or non-invasive vegetation.</p>		☐	☐
<p>A5.104.7 Previously developed sites. On previously developed or graded sites restore or protect at least 50percent of the site area with native and/or non-invasive vegetation.</p>		☐	☐
<p>A5.304.8 Graywater irrigation system. Install graywater collection system for onsite subsurface irrigation using graywater. See California Plumbing Code.</p>		☐	☐

Feature or Measure	Project Requirements		Verification
MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	<i>All checked items are required for the project</i>	<i>Select at least one (1) elective measure from A5.4</i>	<i>Select all measures verified in the completed project</i>
SECTION A5.404 EFFICIENT FRAMING SYSTEMS			
<p>A5.404.1 Wood framing. Employ advanced wood framing techniques, or OVE, as permitted by the enforcing agency. See A5.404.1.2 for advanced framing techniques.</p> <p>A5.404.1.1 Structural or fire-resistance integrity. The OVE selected shall not conflict with structural framing methods or fire-rated assemblies required by the California Building code.</p>		<input type="checkbox"/>	CALGreen Inspector <input type="checkbox"/>
SECTION A5.405 MATERIAL SOURCES			
<p>A5.405.1 Regional materials. Select building materials or products for permanent installation on the project that have been harvested or manufactured in California or within 500 miles of the project site, meeting the criteria listed in A5.405.1.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>A5.405.2 Bio-based materials. Select bio-based building materials and products made from solid wood, engineered wood, bamboo, wool, cotton, cork, straw, natural fibers, products made from crops (soy-based, corn-based) and other bio-based materials with a least 50% bio-based content.</p> <p>A5.405.2.1 Certified wood: Certified wood is an important component of green building strategies and the California Building Standards Commission will continue to develop a standard through the next code cycle.</p> <p>A5.405.2.2 Rapidly renewable materials: Use materials made from plants harvested within a ten-year cycle for at least 2.5% of the total materials value, based on estimated cost.</p>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p>A5.405.3 Reused materials. Use salvaged, refurbished, refinished, or reused materials for at least 5% of the total value, based on estimated cost of materials on the project.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>A5.405.4 Recycled content. Use materials, equivalent in performance to virgin materials, with postconsumer or pre-consumer recycled content value (RCV) for not less than 10% of the total value, based on estimated cost of materials on the project. Provide documentation as the respective values. (Tier 1) See Sections A5.405.4.1 through A5.405.4.5.</p> <p>Note: See local building department for alternative approval.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p>A5.405.5 Cement and concrete. Use cement and concrete made with recycled products and complying with the following sections:</p> <p>A5.405.5.1 Cement. Meet the following standards for cement:</p> <ol style="list-style-type: none"> 1. Portland cement shall meet ASTM C 150. 2. Blended Cement shall meet ASTM C 595 or ASTM C 1157. 3. Other hydraulic cements shall meet ASTM C 1157. <p>A5.405.5.2 Concrete. Unless otherwise directed by the Engineer of Record, use concrete manufactured with cementitious materials in accordance with Sections A5.405.5.2.1 and A5.405.5.2.1.1, as approved by the enforcing agency.</p> <p>A5.405.5.2.1 Supplementary cementitious materials (SCMs). Use concrete made with one or more of the supplementary cementitious materials</p>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Feature or Measure	Project Requirements		Verification
<p>(SCMs) conforming with the standards listed in Section A5.405.5.2.1</p> <p>A5.405.5.2.1.1 Mix design equation. Use any combination of one or more (SCMs), satisfying Equation A5.4-14.</p> <p>Exception: Minimums in mix designs approved by the Engineer of Record may be lower where high early strength is needed for concrete products or to meet an accelerated project schedule.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>A5.405.5.3 Additional means of compliance. Any of the measures in Sections A5.405.5.3.1 and A5.405.3.2 may be employed for the production of cement or concrete, depending on their availability and suitability, in conjunction with A5.405.5.2.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>SECTION A.5.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE</p>			
<p>A5.406.1 Choice of materials. Compared to other products in a given product category, choose materials proven to be characterized by one or more of the following:</p> <p>A5.406.1.1 Service life. Select materials for longevity and minimal deterioration under conditions of use.</p> <p>A5.406.1.2 Reduced maintenance. Select materials that require little, if any, finishing.</p> <p>A5.406.1.3 Recyclability. Select materials that can be re-used or recycled at the end of their service life.</p>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>CALGreen Inspector</p> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p>SECTION 5.407 WEATHER RESISTANCE AND MOISTURE MANAGEMENT</p>			
<p>5.407.1 Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 and California Energy Code Section 150, manufacturer's installation instructions, or local ordinance, whichever is more stringent.</p>	<input checked="" type="checkbox"/>		<p>City Bldg Inspector</p> <input type="checkbox"/>
<p>5.407.2 Moisture control. 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 openings to prevent water intrusion into buildings.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		<p>CALGreen Inspector</p> <input type="checkbox"/> <input type="checkbox"/>
<p>SECTION 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 65 percent of the nonhazardous construction and demolition waste in accordance Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; meet a local construction and demolition waste management ordinance, whichever is more stringent.</p> <p>Exception: Excavated soil and land-clearing debris.</p> <p>5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that</p> <ol style="list-style-type: none"> 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). 	<input checked="" type="checkbox"/>		<p>City Plan Check Staff</p> <input type="checkbox"/>

Feature or Measure	Project Requirements		Verification
<p>Exception: Refrigeration systems containing low-global warming potential (low GWP) refrigerant with GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-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>			
ADDITIONAL ELECTIVE MEASURE			
<p>A5.601.2.4.5 Additional elective measure. Pursuant to Tier 1 requirements, select one additional Tier 1 elective measure from any division.</p>	☒		<p>CALGreen Inspector</p> <input type="checkbox"/>

INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS	<i>All checked items are required for the project</i>		<i>Select all measures verified in the completed project</i>
Qualifications			
<p>702.1 HVAC system installers are trained and certified in the proper installation of HVAC systems.</p>	☒		<p>CALGreen Inspector</p> <input type="checkbox"/>
<p>702.2 The ICC certified CALGreen Inspector for this project <u>is listed by the City of Santa Rosa</u> as an approved CALGreen Inspector and is qualified and able to demonstrate competence in the discipline they inspect and verify.</p>	☒		<p>City Plan Check Staff</p> <input type="checkbox"/>

CALGreen Building Acknowledgments

Project Address: _____

Project Description: _____

Building Permit # _____

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 Division.

The owner, design professional and ICC certified CALGreen Inspector 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 2016 California Green Building Standards Code as amended by Chapter 18 of the Santa Rosa City Code.

Owner's Signature

Date

Owner Name (Please Print)

Design Professional's Signature

Date

Design Professional's Name (Please Print)

City of Santa Rosa Approved CALGreen Inspector Signature

Date

City of Santa Rosa Approved CALGreen Inspector's Name (Please Print)

ICC Certification Number

CALGreen Inspector's E-mail Address

Phone

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 Division prior to Building Division final inspection.

I have inspected the work have received sufficient documentation to verify and certify that the project identified above was constructed in accordance with this CALGreen Checklist and in accordance with the requirements set forth in the 2016 California Green Building Standards Code as amended by Chapter 18 of the Santa Rosa Code.

City of Santa Rosa Approved CALGreen Inspector Signature

Date

CALGreen Inspector's Name (Please Print)

Phone (if different than above)

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