



COUNTY OF SONOMA

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403-2829
(707) 565-1900 FAX (707) 565-110

NONRESIDENTIAL

2010 CALGreen+Tier 1 Checklist

(Applies to newly constructed nonresidential buildings without sleeping accommodations. Additions, alterations, repairs and existing structures¹ are not subject to the requirements of CALGreen. Existing site and landscaping improvements that are not otherwise disturbed are also not subject to the requirements of CALGreen.)

APPENDIX A5 – A5.7

(Revised per County of Sonoma Requirements - Based on CALGreen + Tier 1)

Project Address: _____

Project Name: _____

Project Description: _____

Instructions:

1. The owner/owner's agent and the design professional as required, shall initially complete **Columns 1 and 2** of this checklist, sign and date the **Design Verification** section at the end of this checklist for submission of permit application. PRMD plans examiners shall review checklist for compliance. The approved checklist shall be printed on the project plans as a prerequisite for plan approval.
2. Prior to final inspection by the Building Department, the Building Inspector shall complete **Column 3** and sign or initial, and date the **Implementation Verification** section at the end of this checklist.

<u>Column 1</u> Feature or Measure	<u>Column 2</u> Project Requirements <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> Verification <i>Complete after implementation and prior to final inspection approval</i>
<i>See Chapter 5 and Appendix A5 of the 2010 California Green Building Code 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 Building Inspector or Special Inspector as noted
A5.1 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>Measures verified in the completed project by inspector</i>
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.		<input type="checkbox"/>	<input type="checkbox"/>

¹ Where more than seventy-five percent (75%) of all existing walls of an existing structure are demolished or deconstructed the structure shall be treated as a new building (Sonoma Municipal Code Section 14.10.050).

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<p align="center"><i>See Chapter 5 and Appendix A5 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center">Mandatory & Tier 1 Prerequisites</p>	<p align="center">Tier 1 electives <i>Applicant selects required elective measures</i></p>	<p align="center">Verification by Building Inspector or Special Inspector as noted</p>
<p>A5.103.2 Brownfield or greyfield site redevelopment or infill area development. 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>A5.103.3.1 Brownfield redevelopment. Develop a site documented as contaminated and fully remediated or on a site defined as a brownfield.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>SITE PRESERVATION</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"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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<p>DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES</p>			
<p>A5.105.1.1 Existing building structure. Maintain at least 75 percent of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing) based on surface area.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Window assemblies and non-structural roofing material. 2. Hazardous materials that are remediated as a part of the project. 3. A project with an addition of more than 2 times the square footage of the existing building. <p>A5.105.1.2 Existing non-structural elements. Reuse existing interior non-structural elements (interior walls, doors, floor coverings and ceiling systems) in at least 50 percent of the area of the completed building (including additions).</p> <p>Exception: A project with an addition of more than 2 times the square footage of the existing building.</p> <p>A5.105.1.3 Salvage. Salvage additional items in good condition such as light fixtures, plumbing fixtures, and doors for reuse on this project in an onsite storage area or for salvage in dedicated collection bins. Document the weight or number of the items salvaged.</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>SITE DEVELOPMENT</p>			
<p>5.106.1 Storm water pollution prevention plan. For projects of one acre or less, develop a Storm Water Pollution Prevention Plan (SWPPP) that has been designed, specific to its site, conforming to the State Storm water NPDES Construction Permit or local ordinance, whichever is stricter, as is required for projects over one acre. The plan should cover prevention of soil loss by storm water run-off and/or wind erosion, of sedimentation, and/or of dust/particulate matter air pollution.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>

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<p>A5.106.2 Storm water design. Design storm water runoff rate and quantity in conformance with Section A5.106.3.1 and storm water runoff quality by Section A5.106.3.2, 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>Exception: If the site is already greater than 50 percent impervious, implement a storm water management plan resulting in a 25 percent decrease in rate and quantity.</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>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>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); 2. Cisterns and rain barrels; 3. Green roofs; 4. Roof leader disconnection; 5. Permeable and porous paving; 6. Vegetative swales and filter strips & tree preservation; 7. Volume retention suitable for previously developed sites. 		<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>5.106.4 Bicycle parking and changing rooms.</p> <p>5.106.4.1 Short-term bicycle parking. If the 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 visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack.</p> <p>5.106.4.2 Long-term bicycle parking. For buildings with over 10 tenant-occupants, provide secure bicycle parking for 5 percent of motorized vehicle parking capacity, with a minimum of one space.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>5.106.4.3 Changing rooms. For buildings with over 10 tenant-occupants, provide accessible changing/shower facilities in accordance with Table 5.106.4.3, or document arrangements with nearby changing/shower facilities.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>A5.106.5.1 Designated parking. Provide designated parking for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as shown in Table A5.106.5.1.1 for 10 percent of total spaces. (Tier 1)</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p>A5.106.5.3.1 Electric vehicle supply wiring. For each space required in Table A5.106.5.3.1, provide one 120 VAC 20 amp and one 208/240 V 40 amp, grounded AC outlets or panel capacity and conduit installed for future outlets.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p>A5.106.6 Parking capacity. Design parking capacity to meet but not exceed minimum local zoning requirements.</p> <p>A5.106.6.1 Reduce parking capacity. With the approval of the enforcement authority, employ strategies to reduce on site parking area by</p> <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 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>5.106.7 Exterior walls. Meet requirements in the current edition of the California Energy Code and select one of the following for wall surfaces:</p> <ol style="list-style-type: none"> 1. Provide vegetative or man-made shading devices for east-, south-, and west-facing walls with windows. 2. Use wall surfacing with SRI 25 (aged), for 75 percent of opaque wall areas. 	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p>5.106.8 Light pollution reduction. Comply with lighting power requirements in the California Energy Code and design interior and exterior lighting such that zero direct-beam illumination leaves the building site. Meet or exceed exterior light levels and uniformity ratios for lighting zones 1-4 as defined in Chapter 10 of the California Administrative Code, using the following strategies:</p> <ol style="list-style-type: none"> 1. Shield all exterior luminaires or use cutoff luminaires. 2. Contain interior lighting within each source. 3. Allow no more than 0.1 horizontal foot candle 15 ft beyond the site. 4. Contain all exterior lighting within property boundaries. <p>Exception: See Part 2, Chapter 12, Section 1205.6 for campus lighting requirements for parking facilities and walkways.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>A5.106.9 Building orientation. Locate and orient the building as follows:</p> <ol style="list-style-type: none"> 1. Long sides facing north and south 2. Protect the building from thermal loss, drafts, and degradation of the building envelope caused by wind and wind-driven materials. 		<p align="center"><input type="checkbox"/> <input type="checkbox"/></p>	<p align="center"><input type="checkbox"/> <input type="checkbox"/></p>
<p>5.106.10 Grading and Paving. The site shall be planned and developed to keep surface water away from buildings. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></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 through 3 for 50 percent of site hardscape <u>or</u> put 50 percent of parking underground.</p> <ol style="list-style-type: none"> 1. Provide shade (mature within 5 years of occupancy). 2. Use light colored/ high-albedo materials 3. Use open-grid pavement system. <p>A5.106.11.2 Cool Roof. Use roofing materials having a Solar Reflectance Index (SRI) equal to or greater than the values shown in Table A5.106.11.2.1 – (Tier 1).</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p align="center"><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>

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<p>ELEVATORS, ESCALATORS, AND OTHER EQUIPMENT</p>			
<p>A5.212.1 Elevators and escalators. In buildings with more than one elevator or two escalators, provide controls to reduce the energy demand of elevators and reduce the speed of escalators. Document the controls in the project specifications and commissioning plan.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>ENERGY EFFICIENT STEEL FRAMING</p>			
<p>A5.213.1 Steel framing. Design for and employ techniques to avoid thermal bridging.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p align="center">A5.3 WATER EFFICIENCY AND CONSERVATION</p>	<p align="center"><i>All checked items are required for the project</i></p>	<p align="center"><i>Select at least one (1) elective measure from A5.3</i></p>	<p align="center"><i>Measures verified in the completed project by inspector</i></p>
<p>INDOOR WATER USE</p>			
<p>5.303.1 Meters. Separate meters shall be installed for the uses described in Sections 503.1.1 and 503.1.2. below.</p> <p>5.303.1.1 For buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:</p> <ol style="list-style-type: none"> 1. For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gal/day. 2. For spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop projected to consume more than 100 gal/day <p>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.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p>5.303.2.1 Multiple showerheads serving one shower. When single shower fixtures are served by more than one showerhead, the combined flow rate of all of the showerheads shall not exceed the maximum flow rates specified in the 20 percent reduction column contained in table 5.303.2.3 or the shower shall be designed to only allow one showerhead to be in operation at a time.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>

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<p>A5.303.2.3.1 30% water savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 30 percent shall be provided. (Tier 1) (Calculate savings by Water Use Worksheets – WS-1 and WS-3.)</p> <p>A5.303.2.3.3 40% water savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 40 percent shall be provided. (Calculate savings by Water Use Worksheets – WS-1 and WS-3.)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<p>5.303.4 Wastewater reduction. Each building shall reduce the generation of wastewater by <u>one</u> of the following methods:</p> <p><input type="checkbox"/> The installation of water-conserving fixtures; or</p> <p><input type="checkbox"/> Utilizing non-potable water systems</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>
<p>A5.303.3 Appliances.</p> <ol style="list-style-type: none"> 1. Clothes washers shall have a maximum Water Factor (WF) that will reduce the use of water. 2. Dishwashers shall meet the criteria in A5.303.3(2)(a) and (b). 3. Ice makers shall be air cooled. 4. Food steamers shall be connection-less or boiler-less. 5. The use and installation of water softeners shall be limited or prohibited by local agencies. 		<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"/>
<p>A5.303.5 Dual plumbing. New buildings and facilities shall be dual plumbed for potable and recycled water systems.</p>		<input type="checkbox"/>	<input type="checkbox"/>

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<p>5.303.6 Plumbing Fixtures and Fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the requirements listed for each type in Items listed in Table 5.303.6.</p> <ol style="list-style-type: none"> 1. Water closets (toilets) – flushometer type 2. Water closets (toilets) – tank type 3. Urinals 4. Public lavatory faucets 5. Public metering self-closing faucets 6. Residential bathroom lavatory sink faucets 7. Residential kitchen faucets 8. Residential shower heads 9. Single shower fixtures served by more than one showerhead. 	<p style="text-align: center;"> <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 checked="" type="checkbox"/> </p>		<p style="text-align: center;"> <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"/> </p>
<p>OUTDOOR WATER USE²</p>			
<p>5.304.1 Water budget. A water budget shall be developed for landscape irrigation use in accordance with Chapter 7-D3 of the Sonoma County Code – Water Efficient Landscaping.</p>	<p style="text-align: center;"><input checked="" type="checkbox"/></p>		<p style="text-align: center;"><input type="checkbox"/></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.</p>	<p style="text-align: center;"><input checked="" type="checkbox"/></p>		<p style="text-align: center;"><input type="checkbox"/></p>
<p>A5.304.2.1 Outdoor potable water use. For new water service not subject to the provisions of Water Code Section 535 (i.e. single-family residential connections), separate meters or submeters are installed for indoor and outdoor potable water use for landscaped areas between 500 square feet and 1,000 square feet.</p>		<p style="text-align: center;"><input type="checkbox"/></p>	<p style="text-align: center;"><input type="checkbox"/></p>

² Refer to SCC 7-D3 “Water Efficient Landscape” for other residential requirements, http://www.sonoma-county.org/prmd/docs/landscape_ord/index.htm

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<p>5.304.3 Irrigation design. In new nonresidential projects 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 checked="" type="checkbox"/>		<input type="checkbox"/>
<p>A5.304.4.1 Potable water reduction. Provide water efficient landscape irrigation design that reduces the use of potable water to a quantity that does not exceed 60% of the ETo times the landscape area.</p> <p>A5.304.4.3 Verification of compliance. A calculation demonstrating the applicable potable water use reduction required by this section shall be provided.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>
<p>A5.304.5 Potable water elimination. Provide a water efficient landscape irrigation design that eliminates the use of potable water beyond the initial requirements for plant installation and establishment.</p> <p>Methods used to accomplish the requirements of this section shall include, but not be limited to, the items listed in A5.304.4.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>A5.304.6 Restoration of areas disturbed by construction. Restore all areas disturbed during construction by planting with local native and/or non-invasive vegetation.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<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>		<input type="checkbox"/>	<input type="checkbox"/>
<p>A5.304.8 Graywater irrigation system. Install graywater collection system for onsite subsurface irrigation using graywater.</p>		<input type="checkbox"/>	<input type="checkbox"/>

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<p align="center">A5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</p>	<p align="center"><i>All checked items are required for the project</i></p>	<p align="center"><i>Select at least one (1) elective measure from A5.4</i></p>	<p align="center"><i>Measures verified in the completed project by inspector</i></p>
<p>A5.404.1 Wood framing. Employ advanced wood framing techniques, or OVE, as permitted by the enforcing agency.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>MATERIAL SOURCES</p>			
<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 per Section A5.405.2.1 or A5.405.2.2.</p> <p>A5.405.2.1 Use certified wood products. 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 percent of total materials value, based on estimated cost.</p>		<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 percent of the total value, based on estimated cost of materials on the project.</p>		<input type="checkbox"/>	<input type="checkbox"/>

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<p><i>See Chapter 5 and Appendix A5 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center">Mandatory & Tier 1 Prerequisites</p>	<p align="center">Tier 1 electives <i>Applicant selects required elective measures</i></p>	<p align="center">Verification by Building Inspector or Special Inspector as noted</p>
<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. <p>A5.405.5.2 Concrete. Unless otherwise directed by the engineer, use concrete manufactured with cementitious materials in accordance with Sections A5.405.5.2.1 and A5.405.5.2.2, 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 SCMs 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 A4.5-1.</p> <p>Exception: Minimums for concrete products requiring high early strength may be lower as directed by the engineer.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><i>See Chapter 5 and Appendix A5 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center">Mandatory & Tier 1 Prerequisites</p>	<p align="center">Tier 1 electives <i>Applicant selects required elective measures</i></p>	<p align="center">Verification by Building Inspector or Special Inspector as noted</p>
<p>A5.405.5.3 Additional means of compliance. Any of the following measures may be employed for the production of cement or concrete, depending on their availability and suitability, in conjunction with A5.405.5.2.</p> <p>A5.405.5.3.1 Cement. The following measures may be used in the manufacture of cement.</p> <p>A5.405.5.3.1.1 Alternative fuels. Where permitted by state or local air quality standards, use alternative fuels.</p> <p>A5.405.5.3.1.2 Alternative power. Use alternate electric power generated at the cement plant and/or green power purchased from the utility meeting the requirements of A5.211.</p> <p>A5.405.5.3.1.3 Alternative ingredients. Use inorganic processing additions and limestone meeting ASTM C 150.</p> <p>A5.405.5.3.2 Concrete. The following measures may be used in the manufacture of concrete,</p> <p>A5.405.5.3.2.1 Alternative energy. Use renewable or alternative energy meeting the requirements of Section A5.211.</p> <p>A5.405.5.3.2.2 Recycled aggregates. Use concrete made with one or more of the materials listed in Section A5.405.5.3.2.2.</p> <p>A5.405.5.3.2.3 Mixing water. Use water meeting ASTM C1602, either recycled water provided by the local water purveyor or water reclaimed from manufacturing processes.</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">ENHANCED DURABILITY AND REDUCED MAINTENANCE</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>		<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">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>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>

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<p><i>See Chapter 5 and Appendix A5 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center">Mandatory & Tier 1 Prerequisites</p>	<p align="center">Tier 1 electives <i>Applicant selects required elective measures</i></p>	<p align="center">Verification by Building Inspector or Special Inspector as noted</p>
<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>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING</p>			
<p>5.408.1 Construction waste diversion. Establish a construction waste management plan or meet local ordinance, whichever is more stringent.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p>5.408.2 Construction waste management plan. Submit plan per this section to enforcement authority.</p> <p>5.408.2.1 Documentation. Provide documentation of the waste management plan that meets the requirements listed in section 5.408.2 items 1 thru 4, and the plan is accessible to the enforcement authority.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>A5.408.3.1 Enhanced Construction waste. Recycle and/or salvage for reuse a minimum of 65 percent of non-hazardous construction and demolition debris or meet local ordinance, whichever is more stringent. (Tier 1)</p> <p>Exceptions:</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. <p>A5.408.3.1.1 Verification of compliance. A copy of the completed waste management report shall be provided to the Building Department.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>5.408.4 Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p>LIFE CYCLE ASSESSMENT</p>			
<p>A5.409.1 Materials and system assemblies. Select materials assemblies based on life cycle assessment of their embodied energy and/or green house gas emission potentials. See A5.409.1.1 and A5.409.1.2 for available tools.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

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<p>BUILDING MAINTENANCE AND OPERATION</p>			
<p>5.410.1 Recycling by occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling.</p>	☒		☐
<p>5.410.2 Commissioning. For new buildings 10,000 square feet and over, building commissioning for all building systems covered by T24, Part 6, process systems, and renewable energy systems shall be included in the design and construction processes of the building project. Commissioning requirements shall include as a minimum items listed in 5.410.2.</p> <p>5.410.2.1 Owner's Project Requirements (OPR). Documented before the design phase of the project begins the OPR shall include items listed in A5.410.4.</p> <p>5.410.2.2 Basis of Design (BOD). A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project and updated periodically to cover the systems listed in 5.410.2.2.</p> <p>5.410.2.3 Commissioning plan. A commissioning plan describing how the project will be commissioned shall be started during the design phase of the building project and shall include as a minimum items listed in 5.410.2.3.</p> <p>5.410.2.4 Functional performance testing shall demonstrate the correct installation and operation of each component, system, and system-to-system interface in accordance with the approved plans and specifications.</p> <p>5.410.2.5 Post construction documentation and training. A Systems Manual and Systems Operations Training are required.</p> <p>5.410.2.5.1 Systems manual. The Systems Manual shall be delivered to the building owner or representative and the facilities operator and shall include the items listed in 5.410.2.5.1.</p> <p>5.410.2.5.2 Systems operations training. The training of the appropriate maintenance staff for each equipment type and/or system shall include items listed in 5.410.2.5.2.</p> <p>5.410.2.6 Commissioning report. A complete report of commissioning process activities undertaken through the design, construction and post-construction phases of the building project shall be completed and provided to the owner or owner's representative.</p>	<p>☒</p> <p>☒</p> <p>☒</p> <p>☒</p> <p>☒</p> <p>☒</p> <p>☒</p> <p>☒</p> <p>☒</p> <p>☒</p>		<p>☐</p> <p>☐</p> <p>☐</p> <p>☐</p> <p>☐</p> <p>☐</p> <p>☐</p> <p>☐</p> <p>☐</p>

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<p>5.410.4 Testing, adjusting and balancing. Testing, adjusting and balancing of systems shall be required for buildings less than 10,000 square feet.</p> <p>5.410.4.2 Systems. Develop a written plan of procedures for testing, adjusting and balancing systems. Systems to be included for testing, adjusting and balancing shall include at a minimum, as applicable to the project, the systems listed in 5.410.3.2.</p> <p>5.410.4.3 Procedures. Perform testing, adjusting and balancing procedures in accordance with industry best practices and applicable national standards on each system.</p> <p>5.410.4.3.1 HVAC balancing. Before a new space-conditioning system serving a building or space is operated for normal use, the system should be balanced in accordance with the procedures defined by national standards listed in 5.410.3.3.1.</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 with detailed operating and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection.</p> <p>5.410.4.5.1 Inspections and reports. Include a copy of all inspection verification and reports to the enforcing agency.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p align="center">A5.5 ENVIRONMENTAL QUALITY</p>	<p align="center"><i>All checked items are required for the project</i></p>	<p align="center"><i>Select at least one (1) elective measure from A5.5</i></p>	<p align="center"><i>Measures verified in the completed project by inspector</i></p>
<p>FIREPLACES³</p>			
<p>5.503.1. Install only a direct-vent sealed-combustion gas appliance, pellet burning, or wood-burning appliance compliant with USEPA Ph II certified.</p> <p>5.503.1.1 Woodstoves. Woodstoves shall comply with US EPA Phase II certified emission limits.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

³ Refer to SCC Ch 7C “Wood Burning Appliances” for applicable local ordinance and Technical Bulletin B-35 “Masonry Fireplaces”

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<p>POLLUTANT CONTROL</p>			
<p>A5.504.1 Indoor air quality (IAQ) during construction. Maintain IAQ as provided in Sections A5.504.1.1 and A5.504.1.2.</p> <p>A5.504.1.1 Temporary ventilation. Provide temporary ventilation during construction in accordance with Section 121 of the California Energy Code, CCR, Title 24, Part 6, and Chapter 4 of CCR, Title 8, and as listed in Items 1 through 4 in A5.504.1.2.</p> <p>A5.504.1.2 Additional IAQ measures. Employ additional measures as listed in Items 1 through 5 in A5.504.1.3:</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>A5.504.2 IAQ post-construction. Flush out the building per Section 5.504.2 prior to occupancy.</p> <p>A5.504.2.1 IAQ Testing. A testing alternative may be employed after all interior finishes have been installed, using testing protocols recognized by the United States Environmental Protection Agency (U.S. EPA) and in accordance with Section A5.504.2.1.2. Retest as required in Section A5.504.2.1.3.</p> <p>A5.504.2.1.1 Maximum levels of contaminants. Allowable levels of contaminant concentrations measured by testing shall not exceed the following:</p> <ol style="list-style-type: none"> 1. Carbon Monoxide (CO): 9 parts per million, not to exceed outdoor levels by 2 parts per million; 2. Formaldehyde: 27 parts per billion; 3. Particulates (PM10): 50 micrograms per cubic meter; 4. 4-Phenylcyclohexene (\$-PCH): 6.5 micrograms per cubic meter; and 5. Total Volatile Organic Compounds (TVOC): 300 micrograms per cubic meter. <p>A5.504.2.1.2 Test protocols. Testing of indoor air quality should include the elements listed in Items 1 through 4.</p> <p>A5.504.2.1.3 Noncomplying building areas. For each sampling area of the building exceeding the maximum concentrations specified in Section A5.504.2.1.1, flush out with outside air and retest samples taken from the same area. Repeat the procedures until testing demonstrates compliance</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>5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed in 5.504.4.4.</p> <p>5.504.4.4.1 Carpet cushion. All carpet cushion installed 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 carpet adhesive shall meet the requirements of Table 804.4.1.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>5.504.4.5 Composite wood products. 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.</p> <p>A5.504.4.5.1 Early compliance with formaldehyde limits. Where complying composite wood product is readily available for non-residential occupancies, meet Phase 2 requirements before the compliance dates indicated in Table 5.504.4.5 (Tier I), or use composite wood products made with either CARB-approved no-added formaldehyde (NAF) resins or CARB-approved ultra-low emitting formaldehyde (ULEF) resins (Tier II).</p> <p>5.504.4.5.2 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following.</p> <ol style="list-style-type: none"> 1. Product certifications and specifications. 2. Chain of custody certifications. 3. Other methods acceptable to the enforcing agency. 	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>A5.504.4.7 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the 2009 CHPS criteria and listed on its Low-emitting Materials List (or Product Registry) or certified under the FloorScore program of the Resilient Floor Covering Institute. (Tier 1)</p> <p>A5.504.4.7.2 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p>A5.504.4.8 Thermal Insulation. Comply with Chapter 12-13 in Title 24, Part 12 and with the VOC-emission limits defined in 2009 CHPS criteria and listed on its Low-emitting Materials List. (Tier 1)</p> <p>A5.504.4.8.2 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>A5.504.4.9 Acoustical ceilings and wall panels. Comply with Chapter 8 in Title 24, Part 2 and with the VOC-emission limits defined in the 2009 CHPS criteria and listed on its Low-emitting Materials List. (Tier 1)</p> <p>A5.504.4.9.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.</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>A5.504.5 Hazardous particulates and chemical pollutants. Minimize and control pollutant entry into buildings and cross-contamination of regularly occupied areas.</p> <p>A5.504.5.1 Entryway systems. Install permanent entryway systems measuring at least six feet in the primary direction of travel to capture dirt and particulates at entryways directly connected to the outdoors as listed in Items 1 through 3 in A5.504.5.1.</p> <p>A5.504.5.2 Isolation of pollutant sources. In rooms where activities produce hazardous fumes or chemicals, exhaust them and isolate them from their adjacent rooms as listed in Items 1 through 3 in A5.504.5.2.</p> <p>5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a MERV of 8.</p> <p>A5.504.5.3.1 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a MERV of 13.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p>5.504.7 Environmental tobacco smoke (ETS) control. Prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows where outdoor areas are provided for smoking, and in buildings; or as enforced by ordinances, regulations, or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>

<p style="text-align: center;">Column 1 Feature or Measure</p>	<p style="text-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 style="text-align: center;">Column 3 Verification <i>Complete after implementation and prior to final inspection approval</i></p>
<p><i>See Chapter 5 and Appendix A5 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p style="text-align: center;">Mandatory & Tier 1 Prerequisites</p>	<p style="text-align: center;">Tier 1 electives <i>Applicant selects required elective measures</i></p>	<p style="text-align: center;">Verification by Building Inspector or Special Inspector as noted</p>
<p>A5.507.3 Views. Achieve direct line of sight to the outdoor environment via vision glazing between 2'6" and 7'6" above finish floor for building occupants in 90 percent of all regularly occupied areas.</p> <p>A5.507.3.1 Interior office spaces. Entire areas of interior office spaces may be included in the calculation if at least 75percent of each area has direct line of sight to perimeter vision glazing.</p> <p>A5.507.3.2 Multi-occupant spaces. Include in the calculation the square footage with direct line of sight to perimeter vision glazing.</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>5.507.4 Acoustical control. Employ building assemblies and components with STC values determined in accordance with ASTM E90 and ASTM E413.</p> <p>5.507.4.1 Exterior noise transmission. Wall and floor-ceiling assemblies making up the building envelope shall have an STC of at least 50, and exterior windows shall have a minimum STC of 30 for any of the building locations listed in Items 1 through 3 in 5.507.4.1.</p> <p>5.507.4.2 Interior sound. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.</p>	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input checked="" 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 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 align="center">Column 3 Verification <i>Complete after implementation and prior to final inspection approval</i></p>
<p><i>See Chapter 5 and Appendix A5 of the 2010 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center">Mandatory & Tier 1 Prerequisites</p>	<p align="center">Tier 1 electives <i>Applicant selects required elective measures</i></p>	<p align="center">Verification by Building Inspector or Special Inspector as noted</p>
<p>OUTDOOR AIR QUALITY</p>			
<p>5.508.1 Ozone depletion and global warming reductions. Installations of HVAC, refrigeration, and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.</p> <p>5.508.1.1 CFCs. Install HVAC and refrigeration equipment that does not contain CFCs.</p> <p>5.508.1.2 Halons. Install fire suppression equipment that does not contain Halons.¹</p> <p>A5.508.1.3 Hydrochlorofluorocarbons (HCFCs). Install HVAC and refrigeration equipment that does not contain HCFCs.</p> <p>A5.508.1.4 Hydrofluorocarbons (HFCs). Install HVAC complying with either of the following:</p> <ol style="list-style-type: none"> 1. Install HVAC, refrigeration and fire suppression equipment that do not contain HFCs or that do not contain HFCs with a global warming potential greater than 150. 2. Install HVAC and refrigeration equipment that limit the use of HFC refrigerant through the use of a secondary heat transfer fluid with a global warming potential no greater than 1. 	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p align="center">ADDITIONAL ELECTIVE MEASURE</p>			
<p>A5.601.2.4.5 Additional elective measure. Pursuant to Tier 1 requirements, select one additional Tier 1 elective measure from any division above. The total number of boxes checked under the Tier 1 electives in Column 2 must be five (5) or more.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><i>Total elective measures checked</i></p>	<p align="center"><input type="checkbox"/></p>

INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS	<i>All checked items are required for the project</i>		<i>Measures verified in the completed project by inspector</i>
Qualifications			
702.1 HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
702.2 The green building inspector for this project is qualified and able to demonstrate competence in the discipline they inspect and verify.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Verifications			
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.	<input checked="" type="checkbox"/>		<input type="checkbox"/>