



City of [NAME OF CITY]
 Department of [NAME OF DEPARTMENT] – [NAME OF DIVISION OR BUREAU]
 CALGreen Residential Occupancies 7 Stories or More and
 All Non-Residential Occupancies Application Checklist



APPLICATION CHECKLIST FOR BSC	Mandatory	VOLUNTARY	
		Tier 1	Tier 2
REQUIREMENTS			
Project meets all of the requirements of Divisions 5.1 through 5.5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Planning and Design			
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"/>
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. A5.103.3.1 Brownfield redevelopment. Develop a site documented as contaminated and fully remediated or on a site defined as a brownfield.		<input type="checkbox"/>	<input type="checkbox"/>
Site Preservation			
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. 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. 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.		<input type="checkbox"/>	<input type="checkbox"/>
Deconstruction and Reuse of Existing Structures			
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. Exceptions: 1. Window assemblies and nonstructural roofing material. 2. Hazardous materials that are remediated as a part of the project. 3. A project with an addition of more than two times the square footage of the existing building. A5.105.1.2 Existing nonstructural elements. Reuse existing interior nonstructural elements (interior walls, doors, floor coverings and ceiling systems) in at least 50 percent of the area of the completed building (including additions). Exception: A project with an addition of more than two times the square footage of the existing building. 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.		<input type="checkbox"/>	<input type="checkbox"/>
Site Development			
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. 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. 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. 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. 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). A5.106.3 Low impact development (LID). Reduce peak runoff in compliance with Section 5.106.3.1. Employ at least two 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 Section A5.106.4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.106.4 Bicycle parking and changing rooms. Comply with Sections 5.106.4.1 and 5.106.4.2; or meet local ordinance, whichever is stricter. 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	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		



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<p>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 tenant-occupied motorized vehicle parking capacity, with a minimum of one space.</p> <p>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.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>A5.106.5.1 Designated parking for fuel-efficient vehicles. 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 Tier 1 at 10 percent of total spaces Table A5.106.5.1.2 for Tier 2 at 12 percent of total spaces</p> <p>5.106.5.2 Designated parking. Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.6.2.</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<p>A5.106.5.3.1 Electric vehicle supply wiring. For each space required in Table A406.1.6.2.1, provide one 120 V AC 20 amp and one 208/240V 40 amp, grounded AC outlets or panel capacity and conduit installed for future outlets and as shown in Table A5.106.5.3.1.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<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. 		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<p>A5.106.7 Exterior walls. Meet requirements in the current edition of the <i>California Energy Code</i> 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 minimum SRI 25 (aged), for 75 percent of opaque wall areas. 	<input type="checkbox"/> <input type="checkbox"/>		
<p>5.106.8 Light pollution reduction. Comply with lighting power requirements in the <i>California Energy Code</i> 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 <i>California Administrative Code</i>, 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 .01 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>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
<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. 		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<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>	<input checked="" type="checkbox"/>		
<p>A5.106.11 Heat island effect. Reduce nonroof heat islands and roof heat islands as follows:</p> <p>A5.106.11.1 Hardscape alternatives. Use one or a combination of strategies 1 through 3 for 50 percent of site hardscape or 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 solar reflectance, thermal emittance or Solar Reflectance Index (SRI)³ equal to or greater than the values shown in: Table A5.106.11.2.1 - Tier 1 or Table A5.106.11.2.2 - Tier 2</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"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Energy Efficiency			
Performance Requirements			
<p>5.201.1 Scope. The California Energy Commission will continue to adopt mandatory building standards.¹</p>	<input checked="" type="checkbox"/>		
<p>A5.203.1 Energy performance. Using an Alternative Calculation Method approved by the California Energy Commission, calculate each nonresidential building's TDV energy and CO₂ emissions and compare it to the standard or "budget" building.</p>			



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A5.203.1.1 Tier 1. Exceed <i>California Energy Code</i> requirements, based on the 200S Energy Efficiency Standards, by 15 percent. A5.203.1.2 Tier 2. Exceed <i>California Energy Code</i> requirements, based on the 200S Energy Efficiency Standards, by 30 percent.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Perscriptive Measures			
A5.204.1 ENERGY STAR equipment and appliances. All equipment and appliances provided by the builder shall be ENERGY STAR labeled if ENERGY STAR is applicable to that equipment or appliance.		<input type="checkbox"/>	<input type="checkbox"/>
A5.204.2 Energy monitoring. Provide submetering or equivalent combinations of sensor measurements and thermodynamic calculations, if appropriate, to record energy use data for each major energy system in the building. A5.204.2.1 Data storage. The data management system must be capable of electronically storing energy data and creating user reports showing hourly, daily, monthly and annual energy consumption for each major energy system. A5.204.2.2 Data access. Hourly energy use data shall be accessible through a central data management system and must be available daily.		<input type="checkbox"/>	<input type="checkbox"/>
A5.204.3 Demand response. HV AC systems with Direct Digital Control Systems and centralized lighting systems shall include preprogrammed demand response strategies that are automated with either a Demand Response Automation Internet Software Client or dry contact relays. A5.204.3.1 HVAC. The preprogrammed demand response strategies should be capable of reducing the peak HV AC demand by cooling temperature set point adjustment. A5.204.3.2 Lighting. The preprogrammed demand response strategies should be capable of reducing the total lighting load by a minimum 30 percent through dimming control or bi-level switching. A5.204.3.3 Software clients. The software clients will be capable of communicating with a DR Automation Server.		<input type="checkbox"/>	<input type="checkbox"/>
Renewable Energy			
A5.211.1 On-site renewable energy. Use on-site renewable energy for at least 1 percent of the electrical service overcurrent protection device rating calculated in accordance with the 2007 <i>California Electrical Code</i> or 1 KW, whichever is greater, in addition to the electrical demand required to meet 1 percent of natural gas and propane use calculated in accordance with the 2007 <i>California Plumbing Code</i> . A5.211.1.1 Documentation. Calculate renewable on-site system to meet the requirements of Section A5.211.1. Factor in net-metering, if offered by local utility, on an annual basis. A5.211.3 Green power. Participate in the local utility's renewable energy portfolio program that provides a minimum of 50 percent electrical power from renewable sources. Maintain documentation through utility billings. A5.211.4 Prewiring for future solar. Install conduit from the building roof or eave to a location within the building identified as suitable for future installation of a charge controller (regulator) and inverter. A5.211.4.1 Off-grid prewiring for future solar. If battery storage is anticipated, conduit should run to a location within the building that is stable, weather-proof, insulated against very hot and very cold weather and isolated from occupied spaces.		<input type="checkbox"/>	<input type="checkbox"/>
Elevators, Escalators and Other Equipment			
A5.212.1 Elevators and escalators. In buildings with more than 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.		<input type="checkbox"/>	<input type="checkbox"/>
Energy Efficient Steel Framing			
A5.213.1 Steel Framing. Design for and employ techniques to avoid thermal bridging.		<input type="checkbox"/>	<input type="checkbox"/>
Water Efficiency and Conservation			
Indoor Water Use			
5.303.1 Meters. Separate meters shall be installed for the uses described in Sections 503.1.1 through 503.1.3. 5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: <ol style="list-style-type: none"> For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day. 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. 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"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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<p>5.303.2 20 percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 20 percent shall be provided. (Calculate savings by Water Use Worksheets)</p> <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 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 checked="" type="checkbox"/>		
<p>A5.303.2.3.1 Tier 1 - 30 percent 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.</p> <p>A5.303.2.3.2 Tier 2 - 35 percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 35 percent shall be provided.</p> <p>A5.303.2.3.3 40 percent 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)</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<p>5.303.4 Wastewater reduction. Each building shall reduce the generation of wastewater by one of the following methods:</p> <ol style="list-style-type: none"> The installation of water-conserving fixtures or Utilizing nonpotable water systems. 	As applicable <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
<p>A5.303.3 Appliances.</p> <ol style="list-style-type: none"> Clothes washers shall have a maximum Water Factor (WF) that will reduce the use of water. Dishwashers shall meet the criteria in Section A5.303.3(2)(a) and (b). Ice makers shall be air cooled. Food steamers shall be connectionless or boilerless. 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"/>
<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"> Water closets (toilets) - flushometer type Water closets (toilets) - tank type Urinals Public lavatory faucets Public metering self-closing faucets Residential bathroom lavatory sink faucets Residential kitchen faucets Residential shower heads Single shower fixtures served by more than one showerhead 	As applicable <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"/>		
Outdoor Water Use			
<p>5.304.1 Water budget. A water budget shall be developed for landscape irrigation use.¹</p>	<input checked="" type="checkbox"/>		
<p>5.304.2 Outdoor potable water use. For new water service, separate meters or sub meters shall be installed for indoor and outdoor potable water use for landscaped areas between 1,000 square feet and 5,000 square feet.</p> <p>A5.304.2.1 Outdoor potable water use. For new water service not subject to the provisions of <i>Water Code</i> Section 535, separate meters or submeters shall be installed for indoor and outdoor potable water use for landscaped areas between 500 square feet and 1,000 square feet.</p>	<input checked="" type="checkbox"/>		
<p>5.304.3 Irrigation design. In new nonresidential projects with between 1,000 and 2,500 square feet of landscaped area (the level at which the MLO applies), install irrigation controllers and sensors which include the following criteria and meet manufacturer's recommendations.</p> <p>5.304.3.1 Irrigation controllers. Automatic irrigation system .controllers installed at the time of final inspection shall comply with the following:</p> <ol style="list-style-type: none"> Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change. 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"/> As applicable <input checked="" type="checkbox"/>		
<p>A5.304.4 Potable water reduction. Provide water efficient landscape irrigation design that reduces by the use of potable water.</p> <p>A5.304.4.1 Tier 1 - Reduce the use of potable water to a quantity that does not exceed 60 percent of ETo times the landscape area.</p> <p>A5.304.4.2 Tier 2 - Reduce the use of potable water to a quantity that does not exceed 55</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



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<p>percent of ETo times the landscape area. Methods used to accomplish the requirements of this section shall include, but not be limited to, the items listed in AS.304.4. 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"/>
<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. Methods used to accomplish the requirements of this section shall include, but not be limited to the items listed in Section 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 noninvasive vegetation.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>A5.304.7 Previously developed sites. On previously developed or graded sites, restore or protect at least 50 percent of the site area with native and/or noninvasive 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"/>
Material Conservation and Resource Efficiency			
Efficient Framing Systems			
<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"/>
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 Section A5.405.1.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>A5.405.2 Bio-based materials. Select bio-based building materials per Section AS.40S.2.1 or A5.405.2.2. A5.405.2.1 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. A5.405.2.2 Rapidly renewable materials. Use materials made from plants harvested within a ten-year cycle for at least 2.5percent of total materials value, based on estimated cost.</p>		<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"/>
<p>A5.405.4 Recycled content, Tier 1. Use materials, equivalent in performance to virgin materials, with postconsumer or preconsumer recycled content value (RCV) equaling at least 10 percent of the total value, based on estimated cost of materials on the project. Provide documentation as to the respective values. A5.405.4.1 Recycled content, Tier 2. Use materials, equivalent in performance to virgin materials, with postconsumer or preconsumer recycled content value (RCV) for a minimum of 15 percent of the total value, based on estimated cost of materials on the project. Provide documentation as to the respective values.</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<p>A5.405.5 Cement and concrete. Use cement and concrete made with recycled products and complying with the following sections: A5.405.5.1 Cement. Meet the following standards for cement: 1. Portland cement shall meet ASTM C 150. 2. Blended hydraulic cement shall meet ASTM C 595. 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. 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. A5.405.5.2.1.1 Mix design equation. Use any combination of one or more SCMs, satisfying Equation A4.5-1. Exception: Minimums for concrete products requiring high early strength may be lower as directed by the engineer. 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 Section A5.405.5.2. A5.405.5.3.1 Cement. The following measures may be used in the manufacture of cement. A5.405.5.3.1.1 Alternative fuels. Where permitted by state or local air quality standards, use alternative fuels. 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 Section A5.211. A5.405.5.3.1.3 Alternative ingredients. Use inorganic processing additions and</p>		<input type="checkbox"/>	<input type="checkbox"/>



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limestone meeting ASTM C ISO. A5.405.5.3.2 Concrete. The following measures may be used in the manufacture of concrete, A5.405.5.3.2.1 Alternative energy. Use renewable or alternative energy meeting the requirements of Section A5.211. 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. 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.		<input type="checkbox"/>	<input type="checkbox"/>
Enhanced Durability and Reduced Maintenance			
A5.406.1.1 Service life. Select materials for longevity and minimal deterioration under conditions of use. A5.406.1.2 Reduced maintenance. Select materials that require little, if any, finishing. A5.406.1.3 Recyclability. Select materials that can be re-used or recycled at the end of their service life.		<input type="checkbox"/>	<input type="checkbox"/>
Weather Resistance and Moisture Management			
5.407.1 Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by <i>California Building Code</i> Section 1403.2 and <i>California Energy Code</i> Section 150, manufacturer's installation instructions or local ordinance, whichever is more stringent. ¹	<input checked="" type="checkbox"/>		
5.407.2 Moisture control. Employ moisture control measures by the following methods; 5.407.2.1 Sprinklers. Prevent irrigation spray on structures. 5.407.2.2 Entries and openings. Design exterior entries and openings to prevent water intrusion into buildings.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Construction Waste Reduction, Disposal and Recycling			
5.408.1 Construction waste diversion. Establish a construction waste management plan or meet local ordinance, whichever is more stringent.	<input checked="" type="checkbox"/>		
5.408.2 Construction waste management plan. Submit plan per this section to enforcement authority. 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. 5.408.2.2 Isolated jobsites. The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries of the diversion facility.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.408.3 Construction waste. Recycle and/or salvage for reuse a minimum of 50 percent of nonhazardous construction and demolition debris or meet local ordinance, whichever is more stringent. Exceptions: 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. A5.408.3.1 Enhanced construction waste reduction. Divert to recycle or salvage nonhazardous construction and demolition debris generated at the site in compliance with one of the following: Tier 1. At least a 65 percent reduction Tier 2. At least an 80 percent reduction A5.408.3.1.1 Verification of compliance. A copy of the completed waste management report shall be provided. Exceptions: 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	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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.	<input checked="" type="checkbox"/>		
Life Cycle Assessment			
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 Sections A5.409.1.1 and A5.409.1.2 for available tools.		<input type="checkbox"/>	<input type="checkbox"/>
Building Maintenance and Operation			
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 nonhazardous materials for recycling. ¹	<input checked="" type="checkbox"/>		
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	<input checked="" type="checkbox"/>		



APPLICATION CHECKLIST FOR BSC	Mandatory	VOLUNTARY	
		Tier 1	Tier 2
<p>shall be included in the design and construction processes of the building project. Commissioning requirements shall include items listed in Section 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 Section 5.410.4.</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 Section 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 items listed in Section 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 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 facilities operator and shall include the items listed in Section 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 Section 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 reporting recommendations for postconstruction phases of the building project shall be completed and provided to the owner or representative.</p>	<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>5.410.4 Testing and adjusting. Testing and adjusting 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 and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project, the systems listed in Section 5.410.3.2.</p> <p>5.410.4.3 Procedures. Perform testing and adjusting 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 Section 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 verifications and reports required by the enforcing agency.</p>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
Environmental Quality			
Fireplaces			
<p>5.503.1 Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace or a sealed woodstove and refer to residential requirements in the <i>California Energy Code</i>, Title 24, Part 6, Subchapter 7, Section 150.</p> <p>5.503.1.1 Woodstoves. Woodstoves shall comply with US EPA Phase II emission limits.</p>	<input checked="" type="checkbox"/> As applicable <input checked="" type="checkbox"/>		
Pollutant Control			
<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 <i>California Energy Code</i>. CCR, Title 24, Part 6 and Chapter 4 of CCR, Title 8 and as listed in Items 1 through 4 in Section A5.504.1.2.</p> <p>A5.504.1.2 Additional IAQ measures. Employ additional measures as listed in Items 1 through 5 in Section A5.504.1.3.</p>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<p>A5.504.2 IAQ postconstruction. Flush out the building per Section AS.S04.2 prior to occupancy or if the building is occupied.</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 State 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</p>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>



APPLICATION CHECKLIST FOR BSC	Mandatory	VOLUNTARY	
		Tier 1	Tier 2
shared multi-occupant spaces.		<input type="checkbox"/>	<input type="checkbox"/>
A5.507.2 Daylight. Provide daylight spaces as required for toplighting and sidelighting in the 2007 <i>California Energy Code</i> . In constructing a design, consider Items 1 through 4 in Section A5.507.3.		<input type="checkbox"/>	<input type="checkbox"/>
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. A5.507.3.1 Interior office spaces. Entire areas of interior office spaces may be included in the calculation if at least 75 percent of each area has direct line of sight to perimeter vision glazing. A5.507.3.2 Multi-occupant spaces. Include in the calculation the square footage with direct line of sight to perimeter vision glazing		<input type="checkbox"/>	<input type="checkbox"/>
5.507.4 Acoustical control. Employ building assemblies and components with STC values determined in accordance with ASTM E 90 and ASTM E 413. 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 Section 5.507.5.1. 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.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Outdoor Air Quality			
5.505.1 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. 5.505.1.1 CFCs. Install HVAC and refrigeration equipment that does not contain CFCs. ¹ 5.505.1.2 Halons. Install fire suppression equipment that does not contain Halons. ¹ A5.505.1.3 Hydrochlorofluorocarbons (HCFCs). Install HVAC and refrigeration equipment that does not contain HCFCs. A5.505.1.4 Hydrofluorocarbons (HFCs). Install HVAC complying with either of the following: 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.	As applicable <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

1. These measures are currently required elsewhere in statute or in regulation.