



CALGREEN NON-RESIDENTIAL CHECKLIST – MANDATORY ITEMS

COMMUNITY DEVELOPMENT DEPARTMENT • BUILDING DIVISION
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PURPOSE:

The non-residential provisions of the 2022 CalGreen Code outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties; establishes the means of conserving water used indoors, outdoors and in wastewater conveyance; outlines means of achieving material conservation and resource efficiency; and outlines means of reducing the quantity of air contaminants.

Project Name: _____

Project Address: _____

Project Description: _____

Instructions:

1. The Owner or the Owner’s agent shall employ a licensed professional experienced with the 2022 California Green Building Standards Codes to verify and assure that all required work described herein is properly planned and implemented in the project.
2. The licensed professional, in collaboration with the owner and the design professional shall initial **Column 2** of this checklist, sign and date **Section 1 - Design Verification** at the end of this checklist.
3. Prior to final inspection by the Building Department, the licensed professional shall complete **Column 3** and sign and date **Section 2 - Implementation Verification** at the end of this checklist and submit the completed form to the Building Inspector.

MANDATORY FEATURE OR MEASURE	Column 2	Column 3
	Project Requirements	Verification
CHAPTER 5 – NONRESIDENTIAL MANDATORY MEASURES		
General Requirements		
The project meets all the requirements of Divisions 5.101 through 5.508.	<input type="checkbox"/>	<input type="checkbox"/>
Division 5.1 PLANNING AND DESIGN		
Planning and Design - Site Development		
5.106.1 Storm water pollution prevention. 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.	<input type="checkbox"/>	<input type="checkbox"/>

<p>5.106.8 Light pollution reduction. Outdoor lighting systems shall be designed and installed to comply with the following:</p> <ol style="list-style-type: none"> 1. The minimum requirements in the <i>California Energy Code</i> for lighting zones 0 – 4 as defined in Chapter 10, Section 10-114 of the <i>California Administrative Code</i>; and 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8). 3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8 [N], or <p>Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.106.10 Grading and paving. Construction plans shall indicate how site grading, or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:</p> <ol style="list-style-type: none"> 1. Swales. 2. Water collection and disposal systems. 3. French Drains. 4. Water retention gardens. 5. Other water measures which keep surface water away from building and aid in groundwater recharge. 	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.106.12 Shade Trees. Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2 and 5.106.12.3. Percentages shown shall be measure at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.</p> <p>5.106.12.1 Surface Parking Areas. Shade tree plantings, minimum No. 10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.</p> <p>5.106.12.2 Landscape Areas. Shade tree plantings, minimum No. 10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.</p> <p>5.106.12.3 Hardscape Areas. Shade tree plantings, minimum No. 10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.</p>	<input type="checkbox"/>	<input type="checkbox"/>

Division 5.2 ENERGY EFFICIENCY

Performance Requirements

5.201.1 Scope. The California Energy Commission will continue to adopt mandatory building standards.

Division 5.3 WATER EFFICIENCY AND CONSERVATION

Indoor Water Use

5.303.1 Meters. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 New building or additions in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day.
2. Where separate submeters are unfeasible, for water supplied to the following systems:
 - a. Makeup water for cooling towers where flow through is greater than 500 gpm.
 - b. Makeup water for evaporative coolers greater than 6 gpm.
 - c. Steam and hot-water boilers with energy input > 500,000 Btu/h.

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume > 1,000 gal/day.

5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1. Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for tank-type toilets.

5.303.3.2 Urinals.

5.303.3.2.1 Wall-mounted urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted urinals. The effective flush volume of floor-mounted or other urinal shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads.

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

Weather Resistance and Moisture Management		
<p>5.407.1 Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by <i>California Building Code</i> Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.407.2 Moisture control. Employ moisture control measures by the following methods:</p> <p>5.407.2.1 Sprinklers. Prevent irrigation spray on structures.</p> <p>5.407.2.2 Entries and openings. Design exterior entries and/or openings to prevent water intrusion into buildings as follows:</p> <p>5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 ft around and perpendicular to such openings plus at least one of the following:</p> <ol style="list-style-type: none"> 1. An installed awning at least 4 ft in depth. 2. The door is protected by a roof overhang at least 4 ft in depth. 3. The door is recessed at least 4 ft. 4. Other methods which provide equivalent protection. <p>5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.</p>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Waste Reduction, Disposal and Recycling		
<p>5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.</p> <p>5.408.1.1 Construction waste management plan. Submit plan per this section to enforcement authority.</p> <p>5.408.1.2 Waste management company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.</p> <p>5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.</p> <p>5.408.1.4 Documentation. Provide documentation of the waste management plan that meets the requirements listed in Section 5.408.1.1 through 5.408.1.3.</p>	<input type="checkbox"/>	<input type="checkbox"/>

<p>5.508.2.2.2 Access valve. Only Schrader access valves with a brass or steel body are permitted for use.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.2.2.1 Valves caps. For system with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have sealcaps.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.4 Refrigerated receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.5. Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns) and hold for 30 minutes.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.6.2 Second vacuum. Pull second system vacuum to a minimum of 500 microns and hold for 30 minutes.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.</p>	<input type="checkbox"/>	<input type="checkbox"/>

CALGREEN SIGNATURE DECLARATIONS

Project Name: _____

Project Address: _____

Project Description: _____

SECTION 1 – DESIGN VERIFICATION

Complete all lines of Section 1 – “Design Verification” and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to the Building Department.

The owner and design professional responsible for compliance with CalGreen Standards have revised the plans and certify that the items checked above are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2022 California Green Building Standards Code as adopted by the City of Cupertino.

Owner’s Signature	Date
Owner’s Name (Please Print)	
Design Professional’s Signature	Date
Design Professional’s Name (Please Print)	
Signature of License Professional responsible for CalGreen compliance	Date
Name of License Professional responsible for CalGreen compliance (Please Print)	Phone
Email Address for License Professional responsible for CalGreen compliance	

SECTION 2 – IMPLEMENTATION VERIFICATION

Complete, sign and submit the completed checklist, including column 3, together with all original signatures on Section 2 to the Building Department prior to Building Department final inspection.

I have inspected the work and have received sufficient documentation to verify and certify that the project identified above was constructed in accordance with this Green Building Checklist and in accordance with the requirements of the 2022 California Green Building Standards Code as adopted by the City of Cupertino.

Signature of License Professional responsible for CalGreen compliance	Date
Name of License Professional responsible for CalGreen compliance (Please Print)	Phone
Email Address for License Professional responsible for CalGreen compliance	