



2022 CALIFORNIA GREEN BUILDING CODE CHECKLIST FOR ADDITIONS OR ALTERATIONS TO EXISTING NON-RESIDENTIAL BUILDINGS

*Building additions of 1,000 square feet or more
AND/OR building alterations with a permit valuation of \$200,000 or more
must be designed to include Mandatory Green Building Measures.*

Building Permit Number: _____ Project Address: _____

***In the column labeled “PlanSheet/Details”
specify where each Measure can be found on the plans.***

| Green Building Measure | PlanSheet /Details |
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| SITE DEVELOPMENT (2022 CGC §5.106) | |
| Storm Water Pollution Prevention. Newly constructed projects which disturb less than one acre of land shall prevent the pollution of storm water runoff from the construction activities through local ordinance. Burlingame Municipal Ordinance 18.17.120 2022 CGC §5.106.1.1 | |
| BMP. Include a plan for Best Management Practices (BMP) on the plans. 2022 CGC §5.106.1.2 | |
| 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 new visitor motorized vehicle parking being added, with a minimum of one two-bike capacity rack. Exception: adding fewer than 10 parking spaces. 2022 CGC §5.106.4.1.1 | |
| Long-Term Bicycle Parking. For alterations adding more than 9 tenant vehicular parking spaces, provide secure bicycle parking spaces for 5 percent of the tenant vehicular parking being added, with a minimum of one bicycle parking facility. 2022 CGC §5.106.4.1.3 | |
| 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. 2022 CGC §5.106.10 Exception: Additions and alterations not altering the drainage path. | |
| Shade trees: Shade trees shall be planted to comply with 2022 CGC §5.106.12.1, §5.106.12.2, and §5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with: 2022 CGC §5.304.6 | |
| Surface parking areas. Shade tree plantings, minimum #10 container size, or equal, shall be installed to provide shade over 50% of the parking area within 15 years. 2022 CGC §5.106.12.1 Exceptions: surface parking area covered by solar PV shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 are not included in the area calculation. | |
| Landscape areas. Shade tree plantings, minimum #10 container size, or equal, shall be installed to provide shade over 20 percent of the landscape area within 15 years. 2022 CGC §5.106.12.2 Exception: Playfields for organized sport activity are not included in the total area calculation. | |
| Hardscape areas. Shade tree plantings, minimum #10 container size, or equal, shall be installed to provide shade over 20 percent of the hardscape area within 15 years. 2022 CGC §5.106.12.3 | |

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| <p>Exception: Walks, hardscape areas covered by solar photovoltaic shade structures and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.</p> | |
| INDOOR WATER USE (2022 CGC §5.303) | |
| <p>Meters. Separate sub-meters or metering devices shall be installed. 2022 CGC §503.1.1 and §503.1.2.</p> | |
| <p>Excess Consumption. A separate sub-meter or metering device shall be provided for any tenant within an addition that is projected to consume more than 1,000 gallons/day. 2022 CGC §5.303.1.2</p> | |
| <p>Water Conserving Plumbing Fixtures and Fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:</p> <ul style="list-style-type: none"> Water Closets: 1.28 gallons per flush. 2022 CGC §5.303.3.1 Urinals: Wall-mounted 0.125GPF, Floor 0.5 GPF, 2022 CGC §5.303.3.2.1 & 5.303.2.2 Single Showerhead: 1.8 gallons per minute at 80 psi. 2022 CGC §5.303.3.3.1 Multiple Showerheads Serving One Shower: The combined flow rate of all showerheads shall not be more than 1.8 GPM at 80 psi. 2022 CGC §5.303.3.3.2 Nonresidential lavatory faucets. Not more than 0.5 GPM at 60 psi. 2022 CGC §5.303.3.4.1 Kitchen faucets. Not more than 1.8 GPM at 60 psi. 2022 CGC §5.303.3.4.2 Wash fountains. Maximum flow rate 1.8 GPM at 60 psi. 2022 CGC §5.303.3.4.3 Metering faucets. Shall not deliver more than 0.20 Gallons per cycle 2022 CGC §5.303.3.4.4 Metering faucets for wash fountains. Shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi]. 2022 CGC §5.303.3.4.5 Pre-rinse spray valve. When installed, shall meet the requirements in the <i>California Code of Regulations</i>, Title 20, Sect. 1605.1(h)(4) Table H-2, Sect. 1605.3(h)(4)(A), and Section 1607(d)(7), and shall be equipped with integral automated shutoff. 2022 CGC §5.303.3.4.6 | |
| <p>Commercial kitchen equipment. Food waste disposers. 2022 CGC §5.303.4.1</p> | |
| <p>Areas of addition or alteration. For those occupancies within the authority of the CA Building Standards Commission as specified in Section 103, the provisions of Sections 5.303.4 and 5.304 shall apply to new fixtures in additions or areas of alteration to the building. 2022 CGC §5.303.5</p> | |
| <p>Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the <i>California Plumbing Code</i>, and shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> and in Chapter 6 of this code. 2022 CGC §5.303.6</p> | |
| CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING (2022 CGC 5.408) | |
| <p>Construction Waste Diversion. Recycle and/or salvage a minimum of 65% of the non-hazardous construction and demolition waste in accordance with 2022 CGC §5.408.1.1., through 5.408.1.3.</p> | |
| <p>Universal Waste. Prohibited Universal Waste materials shall be listed on construction documents.</p> | |
| BUILDING MAINTENANCE AND OPERATION (2022 CGC §5.410) | |
| <p>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 including paper, corrugated cardboard, glass, plastics, organic waste and metals. 2022 CGC §5.410.1</p> | |
| <p>Additions. All additions constructed within a 12-month period, (with 1 or more permits) resulting in an increase of $\geq 30\%$ floor area, shall provide recycling areas on site. 2022 CGC §5.410.1.1</p> | |
| <p>Testing and Adjusting. Testing and adjusting of systems shall be required for new systems to serve an addition or alteration subject to Section 303.1. 2022 CGC §5.410.4</p> | |

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| <p>Operation and Maintenance (O&M) Manual. Provide the building owner with detailed operating and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection. Include a copy of all inspection verifications and reports. 2022 CGC §5.410.4.5</p> | |
| FIREPLACES (2022 CGC §5.503) | |
| <p>Fireplaces. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. 2022 CGC §5.503.1 Gas fireplaces are not allowed for New Construction under Burlingame Municipal Ordinance No. 2011.</p> | |
| POLLUTANT CONTROL (2022 CGC §5.504) | |
| <p>Temporary Ventilation. The permanent HVAC system shall only be used during construction if necessary to condition the area or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999 or an average efficiency of 30% based on ASHRAE 52.1.1992. Replace all filters immediately prior to occupancy. 2022 CGC §5.504.1.</p> | |
| <p>Covering of Duct Openings and Protection of Mechanical Equipment During Construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution openings shall be covered with tape, plastic, sheet metal or other acceptable methods, to reduce the amount of dust, water and debris which may enter the system. 2022 CGC §5.504.3.</p> | |
| <p>Finish Material Pollutant Control. Finish materials comply with 2022 CGC §5.504.4.1 to §5.504.4.4.</p> | |
| <p>Adhesives, sealants and caulks. Adhesives, sealants and caulks used on the project shall meet the requirements of the standards listed in: 2022 CGC §5.504.4.1.</p> | |
| <p>Paints and Coatings. Architectural paints and coatings shall comply with 2022 CGC Table 5.504.4.3 unless more stringent local limits apply.</p> | |
| <p>Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. 2022 CGC § 5.504.4.3.2</p> | |
| <p>Carpet Systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed: 2022 CGC §5.504.4.4.</p> | |
| <p>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: 2022 CGC Table 5.504.4.5</p> | |
| <p>Resilient Flooring Systems. 80 percent of the floor area receiving resilient flooring shall comply with at least one of the pollutant control measures listed: 2022 CGC §5.504.4.6</p> | |
| <p>Verification of Compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. 2022 CGC §5.504.4.6.1</p> | |
| <p>Thermal insulation. Comply with requirements of CA Dept. of Public Health. 2022 CGC §5.504.4.7</p> | |
| <p>Verification of Compliance. Documentation shall be provided that materials meet the limits.</p> | |
| <p>Acoustical ceilings and wall panels. Comply with requirements of the California Department of Public Health. 2022 CGC §5.504.4.8.</p> | |
| <p>Verification of Compliance. Documentation shall be provided that materials meet the limits.</p> | |
| <p>Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media prior to occupancy that provides at least a MERV of 13. 2022 CGC §5.504.5.3</p> | |
| <p>Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.</p> | |

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| Environmental tobacco smoke (ETS) control. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows, and within the building as already prohibited by other laws or regulations. 2022 CGC §5.504.5.3 | | |
| INDOOR MOISTURE CONTROL (2022 CGC §5.505) | | |
| Indoor moisture control. Buildings shall meet or exceed the provisions of the 2022 <i>California Building Code</i> , CCR, Title 24, Part 2 Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code. 2022 CGC §5.505 | | |
| INDOOR AIR QUALITY (2022 CGC §5.506) | | |
| Outside Air Delivery. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1, (Requirements for Ventilation) of the 2013 <i>California Energy Code</i> , or the applicable local code, whichever is more stringent. 2022 CGC §5.506.1 | | |
| Carbon dioxide (CO2) monitoring. For additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the 2013 <i>California Energy Code</i> , Section 120.1(c)(4). 2022 CGC §5.506.2 | | |
| ENVIRONMENTAL COMFORT (2022 CGC 5.507) | | |
| Acoustical Control. Employ building assemblies and components with STC values determined in accordance with ASTM E90 and ASTM E413 or OITC determined in accordance with ASTM E 1332, using either the prescriptive or performance method in 2022 CGC §5.507.4.1 or §5.507.4.2. | | |
| OUTDOOR AIR QUALITY (2022 CGC 5.508) | | |
| Ozone Depletion and Greenhouse Gas Reductions. Installation of HVAC, refrigeration and fire suppression equipment shall comply with 2022 CGC §5.508.1.1 and 2022 CGC §5.508.1.2. | | |
| Supermarket Refrigerant Leak Reduction. New commercial refrigeration systems shall comply with 2022 CGC §5.508.2 when installed in retail food stores with 8,000 square feet or more of conditioned area, and that utilize either refrigerated display cases, or walk-in coolers, or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high- GWP) refrigerant with a GWP of 150 or greater. 2022 CGC §5.508.2 | | |
| Responsible Designer's Declaration Statement | Contractor Declaration Statement | |
| I hereby certify that this project has been designed to meet the requirements of the 2022 California Green Building Standards Code. | I hereby certify, as the building or installer under permit listed herein, that this project will be constructed to meet the requirements of the 2022 California Green Building Standards Code. | |
| Name: | Name: | |
| Address: | Address: | |
| City/State/Zip Code | City/State/Zip Code | |
| Signature: | Signature: | |
| Date: | Date: | |