



CALGREEN NON-RESIDENTIAL BUILDING Checklist

REVISED 11/18/14

New non-residential buildings shall be designed to include the green building mandatory measures specified in this checklist. This checklist shall also be applied to non-residential building additions of 1000 square feet or larger and/or alterations with a permit valuation of \$200,000 or more. The requirements shall apply only to the specific area of the addition or alteration. Initial tenant improvements are also subject to the mandatory measures. Subsequent tenant improvements are exempt.

BUILDING PERMIT #: _____

ADDRESS _____

Feature or Measure (For full details of the code requirements see the 2013 Cal Green Code)	Specified Measures Yes/No and Plan Reference
PLANNING AND DESIGN	
SITE DEVELOPMENT (5.106)	
Storm water pollution control. 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 per CGC 5.106.1.1	
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 per CGC 5.106.4.1.	
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 per CGC 5.106.4.2.	
Designated parking. Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2. Parking stall marking shall comply with CGC 5.106.5.2.	
Light pollution reduction. Outdoor lighting systems shall be designed and installed to comply with requirements in the <i>California Energy Code</i> and in compliance with CGC 5.106.8.	
WATER EFFICIENCY AND CONSERVATION	
INDOOR WATER USE (CGC 5.303)	
Meters. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.	
Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: <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, including but not limited to, spaces used for laundry or cleaner, restaurant for food service, medical or dental office, laboratory or beauty salon or barber shop. 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystem: <ol style="list-style-type: none"> a. Makeup water for cooling towers where flow through is greater than 500 gpm. b. Makeup water for evaporative coolers greater than 6 gpm. c. Steam and hot-water boilers with energy input more than 500,000 Btu/h. 	
Excess consumption. A separate submeter or metering device shall be provided for any tenant within a building that is projected to consume more than 1,000 gal/day.	
Water reduction. Plumbing fixtures shall meet the maximum flow rate value shown in Table 5.303.2.3.	

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Exception. Buildings that demonstrate 20% overall water use reduction. In this case, a calculation demonstrating a 20% reduction in the building “water use baseline,” as established in Table 5.30302.2, shall be provided.	
Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the prescriptive reduced flow rates specified in CGC 5.303.3.1 through 5.303.3.3.	
Wastewater reduction. Each building shall reduce the generation of wastewater by one of the methods per CGC 5.303.4.	
Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall meet the applicable standards referenced in Table 1401.1 of the 2013 <i>California Plumbing Code</i> and in Chapter 6 of CGC.	
OUTDOOR WATER USE (CGC 5.304)	
Water budget. A water budget shall be developed for landscape irrigation use per CGC 5.304.1.	
Outdoor potable water use. For new water service for landscaped areas between 1,000 square feet and 5,000 square feet, separate submeters or metering devices shall be installed for indoor and outdoor potable water use per CGC 5.304.2.	
Irrigation design. In new nonresidential projects with between 1,000 and 2,500 square feet of cumulative landscaped area (the level at which the MWELo applies), install irrigation controllers and sensors which include the following criteria and meet manufacturer’s recommendations CGC 5.304.3.	
Irrigation controllers. Automatic irrigation system controllers installed at the time of final inspection shall comply with CGC 5.304.3.1.	
MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	
WEATHER RESITANCE AND MOISTURE MANAGEMENT (CGC 5.407)	
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.	
Moisture control. Employ moisture control measures by the following methods; Sprinklers. Prevent irrigation spray on structures per CGC 5.407.2.1.	
Entries and openings. Design exterior entries and openings to prevent water intrusion into buildings per CGC 5.407.2.2.	
CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING (CGC 5.408)	
Construction waste diversion. Comply with City of San Mateo Construction and Demolition Debris Recycling Program.	
Verification of compliance. A copy of the completed waste management report shall be provided.	
BUILDING MAINTENANCE AND OPERATION (CGC 5.410)	
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 per CGC 5.410.1.	
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 items listed in Section 5.410.2.	
Commissioning report. A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.	
Testing and adjusting. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet per CGC 5.410.4.	
Operation and maintenance manual. Provide the building owner with detailed operating	

Feature or Measure (For full details of the code requirements see the 2013 Cal Green Code)	Yes/No and Plan Reference
<p>and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection per CBC 5.410.4.5.</p> <p>Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.</p>	
ENVIRONMENTAL QUALITY	
FIREPLACES (CGC 5.503)	
<p>Fireplaces. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace or a sealed woodstove or a pellet stove, and refer to residential requirements in the <i>California Energy Code</i>, Title 24, Part 6, Subchapter 7, Section 150.</p> <p>Woodstoves. Woodstoves and pellet stoves shall comply with US EPA Phase II emission limits.</p>	
POLLUTANT CONTROL (CGC 5.504)	
<p>Temporary ventilation. The permanent HVAC system shall only be used during construction if necessary to condition the building 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 (CGC 5.504.1.3).</p>	
<p>Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation or during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust or debris which may collect in the system per CGC 5.504.3.</p>	
<p>Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 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 CGC 5.504.4.1.</p>	
<p>Paints and coatings. Architectural paints and coatings shall comply with 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.</p>	
<p>Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed in Section 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 in Table 5.504.4.5.</p>	
<p>Resilient flooring systems. Comply with the VOC-emission limits defined in the 2009 CHPS criteria and listed on its High Performance Products Database; products compliant with CHPS criteria certified under the Greenguard Children & Schools program; certified under the Resilient Floor Covering Institute FloorScore program; or meet California Department of Public Health 2010 Specifications.</p>	
<p>Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.</p>	
<p>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. MERV 8 filters shall be installed after any flushed-out or testing and prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.</p>	
ENVIRONMENTAL COMFORT (CGC 5.507)	
<p>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 Sections 5.507.4.1 or 5.507.4.2.</p>	
OUTDOOR AIR QUALITY (CGC 5.508)	

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<p>Ozone depletion and greenhouse gas reductions. Installation of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 or 5.508.1.2.</p> <p>Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with Section 5.508.2 when installed in retail food stores 8,000 square feet or more condition 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.</p>	

INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS	
HVAC INSTALLER QUALIFICATION (CGC 702)	
HVAC installer training. HVAC system installers shall be trained and certified in the proper installation of HVAC systems and equipment by a recognized training or certification program per CGC 702.1.	
VERIFICATION (CGC 703)	
Compliance documentation. Upon request, verification of compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the building department which will show substantial conformance.	
Responsible Designer's Declaration Statement	Contractor's Declaration Statement
I hereby certify that this project has been designed to meet the requirements of the 2013 California Green Building Standards Code.	I hereby certify, as the building contractor or installer under the permit listed herein, that this project will be constructed to meet the requirements of the 2013 California Green Building Standards Code.
Name:	Name:
Signature:	Signature:
Date:	Date:
Company:	License:
Address:	Address:
City/St/Zip	City/St/Zip

