



Non-Residential CALGreen (CGBSC) Correction List
(To be inserted within the body of the Non-Residential/Plan Check Correction List)

1. Because of special conditions, the City is requiring the construction documents to be prepared by a licensed design professional. (102.1)
2. The construction documents shall provide sufficient clarify to indicate the location, nature, and scope of the proposed green building features. (102.2)
3. Plans shall indicate method of verification of compliance with all CALGreen requirements. Third party or other methods shall demonstrate satisfactory conformance with mandatory measures. (102.3). **Include City's Mandatory Measures Checklist copies onto plans.**
4. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.
5. Each phase of a project shall comply with those code measures relevant to the building components and systems
 - a. Sec. 303.1.1 Tenant Improvements shall apply only to the initial tenant or occupant improvement to the project.
6. Storm Water Pollution Prevention Plan
 - a. Develop and submit to the city a Storm Water Pollution Prevention Plan for newly constructed projects of less than one acre.
 - b. The SWPPP shall be designed conforming to the State Storm Water NPDES Construction Permit and be specific to the site. (5.106.1)
 - c. The SWPPP shall be approved by the city.
7. Bicycle Parking and Changing Rooms
 - a. For bicycle parking and changing rooms, meet the most restrictive of the requirements of Sections 5.106.4.1 and 5.106.4.2, or local ordinance or the University of California Policy on Sustainable Practices. CGBSC requirements include:
 - b. Short-Term bicycle parking in anchored racks within 100 feet of the visitor's entrance, for 5% of visitor motorized vehicle parking, 2 spaces minimum. (5.106.4.1)



- c. Long-Term bicycle parking when tenant-occupants are greater than 10, for 5% of motorized vehicle parking, 1 space minimum. Lockable enclosures, lockable rooms, or lockable lockers are considered acceptable long-term parking facilities.
8. Designated parking, provide designated parking for low-emitting, fuel-efficient and carpool/van pool vehicles per Table 5.106.5.2, and mark "CLEAN AIR VEHICLE". (5.106.5.2, 5.106.5.2.1)
9. Design interior and exterior lighting such that zero direct-beam illumination leaves the building site. (5.106.8)
10. Grading and paving
 - a. Surface drainage shall not enter buildings. Indicate how site grading and drainage will manage all surface water flows. (5.106.10)
 - b. Submit grading and paving plans to either the building department or other departments as directed by the building official.
11. Provide documentation to indicate the project meets the requirements of State mandatory energy efficiency standards. Enhanced performance criteria is contained in the Appendix Chapters. (5.201)
12. Provide separate water meters for:
 - a. Buildings > 50,000 square feet with individually leased, rented or other tenant space/spaces projected to consume more than 100 gal day (5.303.1.1)
 - b. Buildings > 50,000 square feet with 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 (5.3203.1.1)
 - c. Any building within a project or space within a building that is projected to consume more than 1,000 gal/day (5.303.1.2)
13. Reduce potable water use by at least 20 percent. (5.303.2)
 - a. Indicate method of compliance, prescriptive or performance.
 - b. Provide 20% Reduction Water Use document (WS-2)
 - c. Both WS-1 and WS-2 shall be submitted as part of the plan check approval process.



- d. Indicate method of showing field verification either by installer or third party.
 - e. Plumbing fixtures and fittings shall meet the standards referenced in Table 4.303.3
14. Reduce wastewater in each building by at least 20 percent by:
 - a. Installing water-conserving water fixtures meeting with criteria established in sections 5.303.2 or 5.303.3.
 - b. Utilizing nonpotable water systems captured rainwater, gray water, and municipally treated wastewater complying with the California Plumbing Code and local amendments. (5.303.4)
 15. A water budget shall be developed for landscape irrigation that conforms to the local water efficient landscape ordinance or to the California Department of Water Resources Model Water Efficient Landscape Ordinance. (5.304.1)
 16. Water service for landscape areas between 1000 and 5000 square feet. Separate meters or submeters shall be installed for indoor and outdoor potable water use (5.304.2)
 17. Automatic irrigation controllers that are weather- or soil moisture-based shall be installed at the time of final inspection. (5.304.3.1)
 18. Provide a weather-resistant exterior wall and foundation envelope per CBC Section 1403.2, CEC Section 150, and manufacturer's installation instructions or local ordinances.
 19. Sprinklers shall be designed to prevent spray on structures (5.407.1)
 20. Exterior entries and openings shall be designed to prevent water intrusion into buildings. (5.407.2)
 21. Reduce construction waste by recycling or salvaging for re-use a minimum of 50 percent of the nonhazardous construction and demolition debris, or meet the local construction and demolition waste management ordinance, whichever is more stringent. (5.408.3)



22. Provide a construction waste management plan and documentation demonstrating compliance with the plan shall be submitted that:
 - a. Identifies the materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
 - b. Determines if materials will be sorted on-site or mixed for transportation to a diversion facility.
 - c. Identifies the diversion facility where the material collection will be taken.
 - d. Specifies that the amount of materials diverted shall be calculated by weight or volume, but not by both. (5.408.2, 5.408.2.1)
23. 100 % of trees, stumps, rocks, and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. (5.408.4)
24. Readily accessible areas for recycling paper, corrugated cardboard, glass, plastics and metals shall be provided to serve the entire building (5.410.1)
25. Commissioning shall be included in the design and construction process for new buildings 10,000 square feet and over (5.410.2). Commissioning requirements include:
 - a. Owner's or Owner representative's project requirements. (5.410.2.1)
 - b. Basis of Design. (5.410.2.2)
 - c. Commissioning measures shown in the construction documents.
 - d. Commissioning plan, demonstrate compliance at plan intake with a completed commissioning plan document prior to permit issuance (5.410.2.3).
 - e. Functional performance testing. (5.410.2.4)
 - f. Documentation and training (5.410.2.5) including a systems manual (5.410.2.5.1) and systems operation training (5.410.2.5.2).
 - g. Commissioning report, (5.410.2.6)



- h. Detailed requirements are listed within the reference code sections. The scope of required commissioning shall include all building systems and components covered by Title 24, Part 6 (CEC), as well as process equipment and controls, and renewable energy systems. (5.410.2)

Note: Reference the BSC commissioning guide dated 10/18/2010 available at <http://www.bsc.ca.gov/CALGreen/default.htm>

- 26. For buildings less than 10,000 square feet, testing and adjusting of the following systems in accordance with industry best practices and applicable standards is required: (5.410.4)
- 27. Develop a written plan of procedures for testing and adjusting systems (5.410.4.2)
 - a. HVAC systems and controls.
 - b. Indoor and outdoor lighting and controls.
 - c. Water Heating systems.
 - d. Renewable energy systems.
 - e. Landscape irrigation systems.
 - f. Water rescue systems.
- 28. The HVAC system shall be balanced in accordance with approved National Standards. (5.410.4.3.1)
- 29. A final report signed by the individual responsible for providing services shall be provided after completion of
- 30. Note on the drawings that an Operation and Maintenance Manual with content per 5.410.4.5 and in a format acceptable to the enforcing agency shall be placed in the building at the time of final inspection. (5.410.4.5)
- 31. Gas fireplaces to be direct-vent sealed-combustion type. Woodstoves and pellet stoves shall be sealed and comply with U.S. EPA Phase II emissions. (5.503.1, 5.503.1.1)
 - a. Comply with SCAQMD Rule 445 when applicable



32. All duct openings and other air distribution component openings shall be protected during storage on the construction site until final start-up with tape, plastic, sheet metal, or other acceptable methods to reduce the amount of dust and debris which may collect in the system. (5.504.3)
33. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits and prohibition on the use of certain toxic chemicals, except per subsection 2. (5.504.4.1, subsection 1)
34. Note on the plans that aerosol adhesives, smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packing, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on the use of certain toxic compounds, of CCR, Title 17, commencing with Section 94507. (5.504.4.1, subsection 2)
35. VOC Content Limits for Architectural Coatings (Architectural Paints) shall comply with Table 5.504.4.3, unless more stringent local limits apply. (5.504.4.3)
36. Aerosol paints and coatings shall meet the requirements of Sections 94522(a)(3), 94522(c)(2), and (d)(2) of California Code of Regulations, Title 17 commencing with Section 94520. (5.504.4.3.1)
37. Carpets shall meet one of the following: 1. Carpet and Rug Institute's Green Label Plus Program, 2. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350), 3. NSF/ANSI 140 at the Gold Level. 4. Scientific Certifications Systems Indoor Advantage™ Gold. (5.504.4.4)
38. Carpet cushion shall meet the requirements of the Carpet and Rug Institute Green Label Program, carpet adhesive shall meet the requirements of Table 5.504.4.1 (5.504.4.4.1, 5.504.4.4.2)
39. Hardwood plywood, particleboard, and medium density fiberboard composite wood products shall meet the requirements for Formaldehyde Limits in Table 5.504.4.5. (5.504.4.5)



40. For resilient flooring, at least 50 percent of the floor area shall comply with VOC emission limits defined in the 2009 Collaborative for High Performance Schools (CHPS) Low-emitting Materials List or certified under the Resilient Floor Covering Institute (RFCI) FloorScore program. (5.504.4.6)
41. Note on the plans that pollutant control documentation shall be provided to indicate compliance with Section 5.504 and shall include at least one of the following: Product certifications and specifications, chain of custody certifications, or other methods acceptable to the enforcing agency. (5.504.4.5.2)
42. Provide filters with a Minimum Efficiency Reporting Value (MERV) of at least 8 for outside and return air in regularly occupied areas of mechanically ventilated buildings. (5.504.5.3)
43. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes, and operable windows and in buildings. Meet additional and more stringent requirements in applicable ordinances, regulations, and policies. (5.504.7)
44. For indoor moisture control, buildings shall comply with CBC Section 1203 (Ventilation) and Chapter 14 (Exterior Walls). (5.505) Also refer to the requirements of Section 5.407 of the CGBSC that reference CBC Section 1403.2 (Weather Protection), CEC section 150 (Mandatory Features and Devices), and text indicating the proper design of sprinklers and building openings shall help assure water remains outside the building. (5.505.1)
45. For indoor air quality, meet the requirements of the CEC for outside air delivery and carbon dioxide monitoring. (5.506)
46. A Sound Transmission Coefficient(STC) of at least 50 for the building envelope, and 30 for windows shall be provided where the project is:
 - a. Within 1000 ft of freeways
 - b. Within 5 miles of airports serving 10,000 commercial jets per year
 - c. Within areas where the sound levels at the property line regularly exceed 65 dB. (5.507.4.1)



47. A STC of 40 is required for wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places. (5.507.4.2)
48. HVAC, refrigeration, and fire-suppression equipment shall not contain CFCs or Halon. (5.508)
49. Special inspection is required for all CALGreen design features and Mandatory Measures. Submit the name and qualifications of the person or persons anticipated to perform the inspections.
 The following credentials are required _____
 An Oral and written exam is required to obtain the special inspection credential.
50. Submit the following forms/worksheets
 - a. WS-1, Baseline Water Use
 - b. WS-2, 20 Percent Reduction Water Use
 - c. Construction Waste Management Plan
 - d. Construction Waste Management Worksheet
 - e. Construction Waste Management Acknowledgement