

CALGreen Mandatory Non Residential Measures Checklist

CALGreen Checklist Version 1.0 for GPR Version 6.0

Building Name:	Building Address:
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Instructions: Complete CALGreen Compliance is required for all New Construction projects and is a prerequisite for GreenPoint Rated. The GreenPoint Rater will indicate whether each specific CALGreen requirement is met, unmet, or not applicable, and provide notes on how the building has met each requirement. GreenPoint Raters should keep all verification documentation for quality assurance/control reviews by Build It Green. Build It Green put together a verification manual for CALGreen in addition to the CALGreen Code part 11 and the CALGreen guidebook supplied by Housing Community Development. Please fill out all fields, marking fields that do not apply to your specific project with an "N/A." Documentation of compliance shall include, but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the local enforcing agency.
[Find referenced worksheets and full CALGreen text at www.bsc.ca.gov/Home/CALGreen.aspx](http://www.bsc.ca.gov/Home/CALGreen.aspx)

Division 5.1 - PLANNING AND DESIGN

SECTION	MEASURE NAME	REQUIREMENTS	VERIFICATION METHOD	RESULTS OF VERIFICATION	NOTES
5.106.1	Storm Water Pollution Prevention	<p>Newly constructed projects which disturb less than one acre of land will prevent pollution of stormwater runoff from the construction site.</p> <p>5.106.1.1 Compliance with local ordinance 5.106.1.2 Best Management Practices (BMP) - examples include scheduling construction activity, preservation of natural vegetation and soil, drainage swales, erosion control, mulching, protection of storm drain inlets, perimeter sediment control, sediment trap, stable construction exits, and wind erosion control.</p>	Rater will conduct field verification and collect documentation of stormwater and/or erosion control plan with practices listed.	Please Select	
5.106.4	Bicycle Parking	<p>For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.</p> <p>5.106.4.1.1 Short-term Bicycle Parking [BSC] - If new projects, additions or alterations are anticipated to generate new traffic, provide permanent racks within 200 feet of visitors' entrance that is readily visible, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.</p> <p>Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.</p> <p>5.106.4.1.2 Long-term Bicycle - New buildings with over 10 tenant-occupants or for additions or alterations that add 10 or more tenant vehicle parking spaces, provide secure bicycle parking for 5% of the tenant vehicular parking spaces being added, with a minimum of one space. Accepted parking facilities shall be convenient from the street and shall meet the following:</p> <ol style="list-style-type: none"> 1. Covered, lockable enclosures permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers. 	<p>Rater will collect documentation of bicycle and car quantity calculations data.</p> <p>Field verification location and quantity of bicycle parking installed. If short-term bicycle parking is provided, field verify short-term parking location is within 200 feet of visitors' entrance. If long-term bicycle parking is provided, field verify parking location is convenient for bicyclist from street, covered, and lockable rack, room, or locker.</p>	Please Select	
5.106.5.2	Designated Parking for clean air vehicles	New projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles. See Table 5.106.5.2	Rater will collect documentation of vehicular quantity calculations data and field verify designated parking space quantities.	Please Select	
5.106.5.2.1	Parking stall marking	<p>Paint, in the paint used for stall striping, the following characteristics such that the lower edge of the last word aligns with end of the stall striping and is visible beneath a parked vehicle : "CLEAN AIR/VANPOOL/EV" (2010 CALGreen Guide notes "letters at least 8 inches high")</p> <p>Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.</p>	Field verification of painted letters and location within parking stalls under section 5.106.6.2. and letter height to be at least 8 inches high.	Please Select	

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5.106.8	Light Pollution Reduction	<p>Number 1 and exceptions 1 and 2 of this code section are effective July 1, 2014.</p> <p>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 California Energy Code for Lighting Zones 1-4 as defined in Chapter 10 of the California Administrative Code; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IES TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or <p>Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.</p> <p>Exceptions: [N]</p> <ol style="list-style-type: none"> 1. Luminaires that qualify as exceptions in Section 147 of the California Energy Code. 2. Emergency lighting. 3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. 4. Custom lighting features as allowed by the local enforcing agency as permitted by Section 101.8 <p>Alternate materials, designs and methods of construction.</p>	<p>Rater will collect documentation of outdoor/site lighting plan including light zone, luminaire type and BUG Rating, and location and outdoor lighting schedule. Rater will complete field verification of luminaire type and location as per outdoor/site lighting plan.</p>	Please Select	
5.106.10	Grading and Paving	<p>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 buildings and aid in groundwater recharge. <p>Exception: Additions and alterations not altering the drainage path.</p>	<p>Rater will review building plans for design and conduct field verification for installation grading or drainage system.</p>	Please Select	

DIVISION 5.3 - WATER EFFICIENCY AND CONSERVATION

SECTION	MEASURE NAME	REQUIREMENTS	VERIFICATION METHOD	RESULTS OF VERIFICATION	VERIFIER NOTES
5.303.1.1	New Buildings or Additions in Excess of 50,000 square feet	<p>Separate submeters shall be installed as follows:</p> <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 cleaners, restaurant or 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 subsystems: <ol style="list-style-type: none"> a. Makeup water for cooling towers where flow through is greater than 500 gpm. b. Make up water for evaporative coolers greater than 6 gpm. c. Steam and hot-water boilers with energy input more than 500,000 Btu/h. 	<p>Rater will collect documentation of non-residential plumbing plan and water consumption data calculations and documentation of hot-water boiler energy data. Rater will complete field verification of non-residential spaces' water consuming appliances/systems/fixtures, cooling towers, and hot-water boilers and associated meters.</p>	Please Select	
5.303.1.2	Excess Consumption	<p>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 more 1,000 gal/day.</p>	<p>Rater will collect documentation of plumbing plan and water consumption data calculations. Rater will complete field verification of submeter area serviced.</p>	Please Select	
5.303.2	Water Reduction	<p>Plumbing fixtures shall meet the maximum flow rate values in Table 5.303.2.3.</p> <p>Exception: Buildings that demonstrate 20-percent overall water use reduction. In this case, a calculation demonstrating a 20-percent reduction in the building "water use baseline," as established in Table 5.303.2.2, shall be provided.</p> <p>5.303.2.1 Areas of Addition or Alteration - For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.2 and Section 5.303.3 shall apply to new fixtures in additions or areas of alteration to the building.</p>	<p>Rater will collect documentation of plumbing fixtures schedule and manufacturer plumbing fixture flow/flush rates.</p> <p>Rater will complete field verification of plumbing fixtures installed. If flow/flush rate is not shown on fixture, confirm fixture model and flow/flush rate with manufacture data sheet.</p>	Please Select	

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5.303.3	Water Conserving Plumbing Fixtures and Fittings	<p>Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:</p> <p>5.303.3.1 - Water Closets: ≤ 1.28 gal/flush Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.</p> <p>5.303.3.2 Wall mounted Urinals: ≤ 0.125 gal/flush. Floor mounted urinals 0.5 gpf</p> <p>5.303.3.3.1 Single Showerheads: ≤ 2.0 gpm @ 80 psi</p> <p>5.303.3.3.2 Multiple Showerheads Serving One Shower: combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gpm @ 80 psi or only one shower outlet is to be in operation at a time Note: A hand-held shower shall be considered a showerhead.</p> <p>5.303.3.4.1 Nonresidential Lavatory Faucets: ≤ 0.5 gpm @ 60 psi</p> <p>5.303.3.4.2 Kitchen Faucets 1.8 gpm @ 60 psi</p> <p>5.303.3.4.3 Wash Fountains 1.8 gpm @ 60 psi</p> <p>5.303.3.4.4 Metering Faucets: ≤ 0.20 gallons per cycle @ 60 psi</p> <p>5.303.3.4.5 Metering Faucets for wash fountains: ≤ 0.20 gallons per cycle @ 60 psi</p>	Rater will field verify flush rate of water fixture. If no flush rate is found on fixture, confirm fixture to manufacture data sheet with flush rate noted.	Please Select	
5.303.4.1	Commercial Kitchen - Food Waste Disposers	Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use or shall automatically shut off after no more than 10 minutes of activity. Disposers shall use no more than 8gpm of water.	Rater will collect documentation of specifications of disposer if installed.	Please Select	
5.304.2 and 5.304.4	Outdoor Water Use in Landscape areas equal to or greater than 500 square feet	<p>As of December 1, 2015, new residential developments with an aggregate landscape area equal to or greater than 500 square feet shall comply with one of the following options.</p> <p>1. A local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWEL0), whichever is more stringent.</p> <p>2. Projects with aggregate landscape areas less than 2,500 square feet may comply with MWEL0's Appendix D Prescriptive Compliance Option.</p> <p>1. Prescriptive measures to assist in compliance with the water budget are available in the Model Water Efficient Landscape Ordinance which may be found at: http://www.water.ca.gov/wateruseefficiency/docs/Wate rOrdSec492 .cfm</p> <p>2. The water budget calculator for use with the 0.55 ETAF is available at http://www.water.ca.gov/wateruseefficiency/landscapeordinance/</p> <p>information on emergency rule making: http://www.bsc.ca.gov/Rulemaking/emergency.aspx Express terms: http://www.documents.dgs.ca.gov/bsc/2015TriCycle/BSC-Meetings/Emergency-Regs/HCD-EF-01-15-ET-Pt11.pdf</p>	Rater will collect documentation of permitted landscape and irrigation plan and field verify landscape and irrigation conforms to local or CDWR Model water ordinance.	Please Select	
5.304.4	Outdoor Potable Water Use	For new landscape area 1,000 sf to 5,000 sf, install a submeter or metering device.	Rater will field verify size of landscape area per plans. If 1,000 to 5,000 sf, field verify a submeter or metering device for that landscape area.	Please Select	
5.304.3	Irrigation Design	<p>For cumulative landscaped area of 1,000-2,500 sf, install irrigation controllers and sensors which include the following:</p> <p>5.304.3.1 Irrigation Controllers - Automatic systems installed at time of final inspection shall comply with:</p> <p>1. Controllers shall be weather- or soil moisture-based that automatically adjust irrigation in response to changes in plants' needs.</p> <p>2. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor that connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.</p>	Rater will collect documentation of irrigation schedule and field verify installation of irrigation controllers.	Please Select	

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DIVISION 5.4 - MATERIAL CONSERVATION & RESOURCE EFFICIENCY (CONSTRUCTION WASTE REDUCTION, DISPOSAL & RECYCLING)					
SECTION	MEASURE NAME	REQUIREMENTS	VERIFICATION METHOD	RESULTS OF VERIFICATION	NOTES
5.407.1	Weather Protection	Provide a weather-resistant exterior wall and foundation envelope as required by CBC Section 1403.2 and CEC Section 150.	Rater will field verify the air space depth, ventilated drainage plane system, and penetration of the flashing.	Please Select	
5.407.2.1	Sprinklers	Design and maintain landscape irrigation systems to prevent spray on structures.	Rater will review the plans and specifications to confirm that the sprinkler design are included in the submitted plans. Rater may conduct field verification.	Please Select	
5.407.2.2	Entries and Openings	Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into the buildings as follows: 5.408.2.2.1 Exterior Door Protection - Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: 1. An Installed awning at least 4 feet in depth. 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. 5.407.2.2.2 Flashings - Install flashings integrated with a drainage plane.	Rater will review the plans and specifications to confirm that the design features at entries and openings are included in the submitted plans. Rater may conduct field verification.	Please Select	
5.408.1.1	Construction Waste Management Plan	Recycle and/or salvage for reuse a minimum of 50% of the nonhazardous construction and demolition waste. Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that 1. Identifies construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site or bulk mixed. 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.	Rater to submit Construction Waste Management Worksheet indicating waste generated and diverted.	Please Select	
5.410.1	Recycling By Occupants	Provide readily accessible areas that serve the entire building for the depositing, storage and collection of materials for recycling, including paper, corrugated cardboard, glass, plastics and metals. 5.410.1.1 Additions. [A] All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling on site. 5.410.1.2 Sample Ordinance - Space allocation for recycling areas shall comply with Chapter 18, Part 3 in the California Solid Waste reuse and Recycling Access Act of 1991 (Act).	Rater will conduct field compliance verification and takes photos of the recycling center(s).	Please Select	

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5.410.2	Commissioning [N]	<p>For new buildings $\geq 10,000$ sqft, building commissioning shall be included in the design and construction processes of the building project. Requirements include:</p> <ol style="list-style-type: none"> 1. Owner's or owner representative's project requirements. 2. Basis of design. 3. Commissioning measures shown in the construction documents. 4. Commissioning plan. 5. Functional performance testing. 6. Documentation and training. 7. Commissioning report. <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Dry storage warehouses of any size. 2. Areas $< 10,000$ sqft. used for offices or other conditioned accessory spaces within dry storage warehouse. 3. Tenant improvements $10,000$ sqft. as described in Section 303.1.1. 4. Commissioning requirements for energy systems covered by the 2013 CEC. <p>All building operating systems, process equipment and controls, and renewable energy systems covered by Title 24, Part 6, shall be included in scope of commissioning requirements.</p>	Rater will collect a copy of the Homeowner Manual to review and compare to list of required components for compliance with this measure.	Please Select	
5.410.2.1	Owner's or Owner Representative's Project Requirements (OPR)	<p>Number 2 of this code section is effective July 1, 2014.</p> <p>This documentation shall include:</p> <ol style="list-style-type: none"> 1. Environmental and sustainability goals. 2. energy efficiency goals [Refer to 2013 CEC, Section 120.8(b)]. 3. Indoor environmental quality requirements. 4. Project program, including facility functions and hours of operation, and need for after hours operation. 5. Equipment and systems expectations. 6. Building occupant and operation and maintenance (O&M) personnel expectations. 	Rater will collect a copy of the Homeowner Manual to review and compare to list of required components for compliance with this measure.	Please Select	
5.410.2.2	Basis of Design (BOD)	<p>Numbers 1, 2, and 3 of this code section are effective July 1, 2014.</p> <p>The BOD shall be completed at the design phase of the building project and cover the following systems:</p> <ol style="list-style-type: none"> 1. HVAC systems and controls. Refer to 2013 CEC, Section 120.8 (c) 2. Indoor lighting and system and controls. Refer to 2013 CEC, Section 120.8 © 3. Water heating system. Refer to 2013 CEC, Section 120.8 (c) 4. Renewable energy systems. 5. Landscape irrigation systems. 6. Water reuse systems. 	Rater will collect a copy of the Homeowner Manual to review and compare to list of required components for compliance with this measure.	Please Select	
5.410.2.3	Commissioning Plan	<p>Prior to permit issuance a commissioning plan shall be completed and shall include:</p> <ol style="list-style-type: none"> 1. General project information. 2. Commissioning goals. 3. Systems to be commissioned. Plans to test systems and components shall include: <ol style="list-style-type: none"> a. An explanation of the original design intent. b. Equipment and systems to be tested, including the extent of tests. c. Functions to be tested. d. Conditions under which the test shall be performed. e. Measurable criteria for acceptable performance. 4. Commissioning team information. 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commission shall be included. 	Rater will collect a copy of the Homeowner Manual to review and compare to list of required components for compliance with this measure.	Please Select	
5.410.2.4	Functional Performance Testing	<p>Demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. The report shall contain information addressing each of the building components tested, the testing methods utilized, and include and readings and adjustments made.</p>	Rater will collect a copy of the Homeowner Manual to review and compare to list of required components for compliance with this measure.	Please Select	

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5.410.2.5	Documentation and Training	<p>A systems manual and systems operations training are required, including OSHA requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.</p> <p>5.410.2.5.1 Systems Manual - The manual shall include:</p> <ol style="list-style-type: none"> 1. Site information, including facility description, history and current requirements. 2. Site contact information. 3. Basic O & M, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log. 4. Major systems. 5. Site equipment inventory and maintenance notes. 6. A copy of verifications required by the enforcing agency or code. 7. Other resources and documentation, if applicable. <p>5.410.2.5.2 Systems Operations Training - A program for training of the appropriate maintenance staff for each equipment type and/or system shall include:</p> <ol style="list-style-type: none"> 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces.) 2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the systems manual. 	Rater will collect a copy of the Homeowner Manual to review and compare to list of required components for compliance with this measure.	Please Select	
5.410.2.6	Commissioning Report	<p>A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to owner or representative.</p> <p>Note: For guidance on implementation, refer to Appendix A6, Division A6.1, of this code.</p>	Rater will collect a copy of the Homeowner Manual to review and compare to list of required components for compliance with this measure.	Please Select	
5.410.4	Testing & Adjusting	Testing and adjusting of systems shall be required for new buildings < 10,000 sqft. Or new systems to serve an addition or alteration subject to Section 303.1.	Rater will collect copies of the testing, and adjusting and balancing reports after all the functional testing has been completed.	Please Select	
5.410.4.2	Systems	<p>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:</p> <ol style="list-style-type: none"> 1. HVAC systems and control 2. Indoor and outdoor lighting and controls. 3. Water heating systems. 4. Renewable energy systems. 5. Landscape irrigation systems. 6. Water reuse systems. 	Rater will collect copies of the testing, and adjusting and balancing reports after all the functional testing has been completed.	Please Select	
5.410.4.3	Procedures	Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.	Rater will collect copies of the testing, and adjusting and balancing reports after all the functional testing has been completed.	Please Select	
5.410.4.3.1	HVAC Balancing	Before a new space-conditioning system is operated for normal use, balance the system in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by enforcing agency.	Rater will collect copies of the testing, and adjusting and balancing reports after all the functional testing has been completed.	Please Select	
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.	Rater will collect copies of the testing, and adjusting and balancing reports after all the functional testing has been completed.	Please Select	
5.410.4.5	Operation and Maintenance (O & M) Manual	<p>Provide detailed O & M instructions and copies of guaranties/warranties for each system.</p> <p>5.410.4.5.1 Inspections and reports - Include a copy of all inspection verifications and reports required by enforcing agency.</p>	Rater will collect copies of the testing, and adjusting and balancing reports after all the functional testing has been completed.	Please Select	

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Division 5.5 - ENVIRONMENTAL QUALITY					
SECTION	MEASURE NAME	REQUIREMENTS	VERIFICATION METHOD	RESULTS OF VERIFICATION	NOTES
5.503.1	Fireplaces	<p>Any installed gas fireplace shall be a direct-vent sealed-combustion or sealed wood-burning type.</p> <p>5.503.1.1 Wood Stoves - Any installed woodstove or pellet stove shall comply with U.S. EPA Phase II emission limits where applicable.</p> <p>The fireplace must be consistent with California Energy Code, Part6, Subchapter 7, Section 150. Examples include having a closeable metal or glass doors covering the entire opening of the firebox, a 6 sq. in. combustion air duct from the outside, and equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.</p>	Field verification of installed fireplace and documentation of compliance with US EPA Phase II emissions if appropriate.	Please Select	
5.504.1.3	Temporary Ventilation	Permanent HVAC system shall be used during construction only if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If HVAC system is used, use return air filters with a Minimum Efficiency Reporting Value (MERV) 8 or an average efficiency of 30%. Replace all filters immediately prior to occupancy or at the conclusion of construction if building is occupied.	Rater shall review permit set of plans to verify which air quality practices the contractor is to use on the project and may ask for demonstration during site visit.	Please Select	
5.504.3	Covering of Duct Openings and Protection of Mechanical Equipment During Construction	At the time of rough installation, during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered. Tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris entering the system may be used.	Field verification of protected ducts throughout construction process.	Please Select	
5.504.4	Finish Material Pollutant Control	Finish materials shall comply with Sections 5.504.1 through 5.504.4.	Documentation of VOC levels, coverage, and invoice. Rater has the option of conducting field observations. Additional documentation may be required by enforcing agency.	Please Select	
5.504.4.1	Adhesives, Sealants and Caulks	<p>Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards:</p> <p>1. 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 (www.aqmd.gov/rules/reg/reg11/r1168.pdf). VOC limits, as shown in Tables 5.504.4.1 or 5.504.4.2. Such products shall also comply with Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in Subsection 2 below.</p> <p>2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, 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 use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.</p>	Documentation of VOC levels of product and invoice or equivalent to verify installed product. Sample documentation (PC 1 - PC 3) is available here .	Please Select	
5.504.4.3	Paints and Coatings	Architectural paints and coatings shall comply with VOC limits in Table 1 of the Air Resources Board Architectural Suggested Control Measure, as shown in Table 4.504.3 (see right) unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3, shall be determined by classifying the coating as Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37, of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat, or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply. As a reference the threshold for Flat is 50 g/l and the threshold for Nonflat is 100 g/l.	Documentation of VOC levels of product and invoice. Sample documentation (PC 5 - PC 7) is available here .	Please Select	

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5.504.4.3.1	Aerosol Paints and Coatings	Aerosol paints and coatings shall meet the Product-Weighted MIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Section 94522 (c)(2) and (d)(2) of the California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Quality Management District shall additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.	Documentation may include, but is not limited to, the following: 1. Manufacturer's product specification. 2. Field verification of on-site product containers.	Please Select	
5.504.4.4	Carpet Systems	All carpet installed in the building interior shall meet the testing and product requirements of one of the following: 1. Carpet and Rug Institute's Green Label Plus Program 2. California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as Specification 01350.) 3. NSF/ANSI 140 at the Gold level or higher 4. Scientific Certifications Systems Sustainable Choice; or 5. Compliant with the California Collaborate for High Performance Schools Criteria Interpretation for EQ 2.2 dated July 2012 and listed in the product database.	Documentation of certification of product and invoice or equivalent to verify installed product. Sample documentation (PC 9 - PC 11) is available here .	Please Select	
5.504.4.4.1	Carpet Cushion	All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label Program.	Documentation of certification of product and invoice or equivalent to verify installed product. Sample documentation (PC 9 - PC 11) is available here .	Please Select	
5.504.4.4.2	Carpet Adhesive	All carpet adhesives shall meet the requirements of Table 5.504.4.1.	Documentation of VOC levels of product and invoice or equivalent to verify installed product. Sample documentation (PC 1 - PC 3) is available here .	Please Select	
4.504.4.5	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 Air Resources Board's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et. seq.), by or before the dates specified in those sections shown in Table 5.504.4.5. Definition of Composite Wood Products: Composite wood products include hardwood plywood, particleboard, and medium density fiberboard. "Composite wood products" do not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists, or finger-jointed lumber, all as specified in CCR, Title 17, Section 93120.1(a).	Documentation shall include one of the following: 1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting Title 17c Section 93120, et seq.) 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, AS/NZS 2269 or European 636 3S standards.	Please Select	
5.504.4.6	Resilient Flooring Systems	Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following: 1. VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance Products Database. 2. Products compliant with CHPS criteria certified under the Greenguard Children & Schools program. 3. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. 4. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350.)	Documentation of certification of product and invoice or equivalent to verify installed product. Sample documentation (PC 9 - PC 11) is available here .	Please Select	
5.504.5.3	Filters	Exception 1 of this code section is effective July 1, 2014. Provide air filtration media for outside and return air that provides at least MERV 8. Install prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the O & M manual. EXCEPTIONS: 1. An ASHRAE 10%-15% efficiency filter is permitted for HVAC Unit meeting 2013 CEC having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow.	Rater to collect documentation of MERV rating.	Please Select	
5.504.7	Environmental Tobacco Smoke (ETS) Control	Where outside areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable window and within buildings. When policies are not in place, post signage to inform building occupants of the prohibitions.	The rater will verify established smoking area and signage installed in the field.	Please Select	

CALGreen Mandatory Non Residential Measures Checklist

CALGreen Checklist Version 1.0 for GPR Version 6.0

5.505.2.1	Capillary Break	<p>A capillary break shall be installed in compliance with at least one of the following:</p> <ol style="list-style-type: none"> 1. Install a vapor retarder in contact with concrete and in contact with a 4-inch thick base of ½ inch or larger aggregate. The concrete mix design shall be designed to address bleeding, shrinkage, and curing. The vapor barrier must overlap by a recommended 6 inches and taped with water resistant tape. For additional information, see American Concrete Institute, ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional. <p>Note: Section 4.505.2 states Concrete slab foundations required to have a vapor retarder by the California Building Code, Chapter 19; or the California Residential Code, Chapter 5, shall also comply with this section.</p>	<p>Plan review of plans demonstrating vapor retarder to be installed and field verification of installed vapor barrier.</p>	Please Select	
5.505.1	Indoor Moisture Control	<p>Buildings shall meet or exceed the provisions of CBC, CCR, Title 24, Part 2, Sections 1203 (Ventilations) and Chapter 14 (Exterior Walls). See Section 5.407.2 of this code for additional measures not applicable to low-rise residential buildings.</p>	<p>Field verification of vented attic and crawlspace or compliance with exceptions. Field verification of local exhaust in bathrooms and kitchens. Accountability form from General Contractor of compliance with Section 1203 Ventilation and Chapter 14 Exterior Walls including drainage plan and installation to manufacturer's recommendations.</p>	Please Select	
5.506.1	Outside Air Delivery	<p>This code section is effective July 1, 2014.</p> <p>Mechanically or naturally ventilated spaces in building, meet the requirements of Section 121 or the 2010 CEC, or applicable local code, whichever is more stringent, and Division 1, Chapter 4 of the Code.</p>	<p>Field verification of installed whole house fan that complies with measure.</p>	Please Select	
5.506.2	Carbon Dioxide Monitoring	<p>This code section is effective July 1, 2014.</p> <p>For buildings equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with requirements of the 2013 CEC, Section 120 (c)(4).</p>	<p>Documentation in the form of building-specific calculations and mechanical plans incorporating requirements of Manuals J, D, and S. Statement from HVAC designer indicating compliance with this measure.</p>	Please Select	
5.507.4	Acoustical Control	<p>Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413 or Outdoor-Indoor Sound Transmission Class (OITC) determined by ASTM E 1332, using either the prescriptive or performance method.</p>	<p>Rater to review the plans, specifications and calculations to confirm that STC ratings are included which meet the requirements of this section.</p>	Please Select	
5.507.4.1	Exterior Noise Transmission, Prescriptive Method	<p>Wall and roof ceiling assemblies exposed to the noise source making up the building or addition or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:</p> <ol style="list-style-type: none"> 1. Within 65 CNEL noise contour of an airport. 2. Within 65 CNEL noise contour of a freeway, railroad, industrial source or fix guided source as determined by the Noise Element of the General Plan. 	<p>Rater to review the plans, specifications and calculations to confirm that STC ratings are included which meet the requirements of this section.</p>	Please Select	
5.507.4.1.1	Noise Exposure Where Noise Contours Are Not Readily Available	<p>Buildings exposed to noise levels of 65 dB Leq-1-hr during any hour of operation shall have exterior wall and roof ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45, with exterior windows of a minimum STC of 40.</p>	<p>Acoustical Analysis documenting compliance with interior sound level by personnel approved by architect or engineer of record.</p>	Please Select	
5.507.4.2	Performance Method	<p>Provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level of 50 dBA in occupied areas during any hour of operation.</p> <p>5.507.4.2.1 Site Features - Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.</p>	<p>Acoustical Analysis documenting compliance with interior sound level by personnel approved by architect or engineer of record.</p>	Please Select	
5.507.4.3	Interior Sound Transmission	<p>Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public spaces shall have an STC of at least 40.</p> <p>Note: Examples of assemblies and STC ratings can be found at California Office of Noise Control: http://www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf</p>	<p>Rater to review the plans, specifications and calculations to confirm that STC ratings are included which meet the requirements of this section.</p>	Please Select	

CALGreen Mandatory Non Residential Measures Checklist

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5.508.1	Ozone depletion and Greenhouse Gas Reductions	5.508.1.1 Chlorofluorocarbons (CFCs) - Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs. 5.508.1.2 Halons - Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.	Rater to review plans and product data sheets to verify installed equipment.	Please Select	
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Division 7 - INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS (QUALIFICATIONS, VERIFICATIONS)

SECTION	MEASURE NAME	REQUIREMENTS	VERIFICATION METHOD	RESULTS OF VERIFICATION	NOTES
702.1	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. Examples of acceptable HVAC training and certification programs include but are not limited to the following: <ul style="list-style-type: none"> State certified apprenticeship programs Public utility training programs Training programs sponsored by the trade, labor or statewide energy consulting or verification organizations Programs sponsored by manufacturing organizations Other programs acceptable by the enforcing agency 	HVAC installer to provide documentation of training and certification and installer supervision/ reporting structure to demonstrate compliance.	Please Select	
702.2	Special Inspection	Special inspectors must be qualified and able to demonstrate competence to the enforcing agency in the discipline in which they are inspecting.	HVAC installer to provide documentation of training and certification and installer supervision/ reporting structure to demonstrate compliance.	Please Select	
703.1	Documentation	Documentation of compliance shall include, but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the local enforcing agency. Other specific documentation or special inspections necessary to verify compliance are specified in appropriate sections of CALGreen	HVAC installer to provide documentation of training and certification and installer supervision/ reporting structure to demonstrate compliance.	Please Select	

By filling out this document and writing my name below, I verify that the information provided above is accurate, to the best of my knowledge. I have reviewed the measures listed above in every unit or completed allowable sampling. The above measures have been implemented to the full extent of CALGreen as outlined in the California Green Building Code. If necessary during any audit process, I can provide backup documentation for the measure(s) claimed above.

Rater Name:	
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