

## GREEN BUILDING PRESCRIPTIVE CHECKLIST

### NEW AND ALTERATIONS TO NON-RESIDENTIAL BUILDINGS

*These requirements apply to building permits submitted on or after January 1, 2020*

The following is a standardized checklist of the 2019 California Green Building Standards Code (CALGreen) requirements that shall be required for all new and alterations of non-residential projects to comply with the CALGreen Mandatory Measures (chapter 5).

**Note** section 301.3 states, Nonresidential additions and alterations. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

***A waste management plan is applicable for all non-residential, new construction, additions and alterations regardless of the construction valuation.***

#### Green Building Code Acknowledgment

Project Address: \_\_\_\_\_

Project Description: \_\_\_\_\_

Building Permit Number: \_\_\_\_\_

#### **Section 1- Design Verification**

The designer or design professional has reviewed the plans and certifies that the items checked below are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2019 California Green Building Code.

Designer's Signature	Designer's Name (Please Print)	Date
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Design Professional's Signature	Design Professional's Name (Please Print)	Date
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Reference	Description	Comments	Designer's Comments with Plan Detail Reference	City Use Only Field Inspection Verification
<b>Planning and Design – Site Development</b>				
<b>Municipal Code Chapter 9.14</b>	<b>Storm-water Management and Discharge Control</b>	The site shall be the minimum requirements for drainage per the city municipal code as outlined by the State Water Board		Initials: Date:
<b>5.106.4</b>	<b>Bicycle Parking</b>	For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1.		Initials: Date:
<b>5.106.4.1</b>	<b>Bicycle Parking</b>	<b>[BSC-CG]</b> Comply with Sections 5.106.4.1.1 and 5.106.4.1.2;		Initials: Date:
<b>5.106.4.1.1</b>	<b>Short Term bicycle parking</b>	<b>[BSC-CG]</b> If the new project or addition or alteration 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 spaces being added, with a minimum of one two-bike capacity rack. <b>Exception:</b> Additions or alterations which add nine or fewer visitor vehicle parking spaces.		Initials Date:
<b>5.106.4.1.2</b>	<b>Long Term bicycle parking</b>	For buildings with over 10 tenant-occupants or for additions or alterations that add 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of tenant-occupied motorized vehicle parking spaces being added, with a minimum of one space. Acceptable parking facilities shall be convenient from the street and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers. <b>Note:</b> Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.		Initials: Date:
<b>5.106.5.2</b>	<b>Designated Parking</b>	In new projects or addition 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 as shown in Table 5.106.5.2		Initials: Date:
<b>5.106.5.2.1</b>	<b>Parking stall Marking</b>	Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible		Initials:

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		beneath a parked vehicle: CLEAN AIR/ VANPOOL/EV <b>Note:</b> Vehicles bearing Clear Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.		Date:
5.106.5.3	<b>Electric vehicle (EV) charging</b>	Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment EVSE. <b>5.106.5.3.1</b> Single charging space requirements. <b>5.106.5.3.2</b> Multiple charging spaces requirements. <b>5.106.5.3.3</b> EV charging space calculation. Per Table 5.106.5.3.3 (approx. 6%) <b>5.106.5.3.4</b> Identification. <b>5.106.5.3.5.</b> Future charging spaces qualifying as designated parking described in section 5.106.5.2		Initials:  Date:
5.106.8	<b>Light pollution reduction</b>	Outdoor lighting systems shall be designed and installed to comply with the following: 1. The minimum requirements in the <i>California Energy Code</i> for Lighting Zones 1-4 as defined in Chapter 10 of the <i>California Administrative Code</i> ; and 2. Backlight ratings as defined in IES TM-15-11 3. Uplight and Glare as defined in California Energy Code		Initials:  Date:
5.106.8	<b>Light pollution reduction</b>	4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Title 18 Zoning of PMC. <b>Exceptions:</b> 1. Luminaires that qualify as exceptions in Section 140.7 of the <i>California Energy Code</i> 2. Emergency lighting 3. Building façade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. 4. Custom lighting features as allowed by the City of Pleasanton, as permitted by section 101.8 Alternate materials, design and methods of construction.		Initials:  Date:
5.106.10	<b>Grading and paving</b>	Construction plans shall indicate how site grading or a <u>drainage system will manage all surface water flows</u> to keep water from entering buildings. Examples of methods to manage surface water include those shown in Items 1-5. See exception for additions or alterations.		Initials:  Date:

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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 measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with section 5.304.6.		Initials:  Date:
5.106.12.1	Surface parking areas	Shade tree plantings, minimum #10 container size, shall be installed to provide shade over 50% of the parking area within 15 years. <b>Exception:</b> The surface parking area covered by solar photovoltaic shade structures, or 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.		Initials:  Date:
5.106.12.2	Landscape areas	Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years. <b>Exception:</b> Playfields for organized sport activity are not included in the total area calculation.		Initials:  Date:
5.106.12.30	Hardscape areas	Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20% of the hardscape area within 15 years. <b>Exception:</b> Walks, hardscape areas covered by solar photovoltaic shade structures, or shade structures.		Initials:  Date:
<b>Energy Efficiency Performance Requirements</b>				
5.201.1	Scope	Building meets or exceeds the requirements of the California Energy Efficiency Standards.		Initials:  Date:
<b>Water Efficiency and Conservation</b>				
<b>Indoor Water Use</b>				
5.303.1	Meters	Separate meters shall be installed for the uses described in Sections 5.303.1.1 through 5.303.1.2.		Initials:  Date:
5.303.1.1	New buildings 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, 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:		Initials:  Date:

Reference	Description	Comments	Designer's Comments with Plan Detail Reference	City Use Only Field Inspection Verification
5.303.1.1	<b>New buildings or additions in excess of 50,000 square feet</b>	a. Makeup water for cooling towers where flow through is greater than 500 gpm (30/L/s). b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot-water boilers with energy input more than 500,000 Btu/h (147 kW).		Initials:  Date:
5.303.1.2	<b>Excess consumption</b>	A separate submeter or metering device shall be provided for any tenant within a new building or an addition that is projected to consume more than 1,000 gal/day (3800 L/day).		Initials:  Date:
5.303.3	<b>Water conserving plumbing fixtures and fittings</b>	Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:		Initials:  Date:
5.303.3.1	<b>Water closets</b>	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. <b>Note:</b> The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.		Initials:  Date:
5.303.3.2	<b>Urinals</b>			
5.303.3.2.1	<b>Wall-mounted urinals</b>	The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.		Initials: Date:
5.303.3.2.2	<b>Floor mounted urinals</b>	The effective flush volume of floor mounted urinals shall not exceed 0.5 gallons per flush.		Initials: Date:
5.303.3.3	<b>Showerheads</b>			
5.303.3.3.1	<b>Single showerhead</b>	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.		Initials:  Date:
5.303.3.3.2	<b>Multiple showerheads serving one shower</b>	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. <b>Note:</b> A hand-held shower shall be considered a showerhead.		Initials:  Date:
5.303.3.4.1	<b>Nonresidential lavatory faucets</b>	Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.		Initials:  Date:
5.303.3.4.2	<b>Kitchen Faucets</b>	Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 PSI. Kitchen faucets		Initials:

Reference	Description	Comments	Designer's Comments with Plan Detail Reference	City Use Only Field Inspection Verification
		may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 PSI, and must default to a maximum of 1.8 gallons per minute at 60 PSI		Date:
5.303.3.4.3	Wash fountains	Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].		Initials: Date:
5.303.3.4.4	Metering faucets	Metering faucets shall not deliver more than 0.20 gallons per cycle.		Initials: Date:
5.303.3.4.5	Metering faucets for wash fountains	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].		Initials: Date:
5.303.4	Commercial kitchen equipment			Initials: Date
5.303.4.1	Food waste disposers	Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. <b>Note:</b> This code section does not affect local jurisdiction authority to prohibit or require disposer installation.		Initials: Date:
5.303.6	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.		Initials: Date:
<b>Outdoor Water Use</b>				
5.304.1 PMC 18.20.030 14.20	Outdoor potable water use in landscape areas	Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficiency Landscape Ordinance (MWELo), whichever is more stringent. <b>Notes:</b> 1)The California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELo) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations. 2)MWELo and supporting documents, including a water budget calculator, are available at <a href="https://www.water.ca.gov/">https://www.water.ca.gov/</a> .		Initials: Date:
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 and <i>California Energy Code</i> , Section		Initials: Date:

Reference	Description	Comments	Designer's Comments with Plan Detail Reference	City Use Only Field Inspection Verification
		150, manufacturer's installation instructions or local ordinance, whichever is more stringent. <sup>3</sup>		
5.407.2	Moisture control	Employ moisture control measures by the following methods;		Initials: Date:
5.407.2.1	Sprinklers	Design and maintain landscape irrigation systems to prevent irrigation spray on structures.		Initials: Date:
5.407.2.2	Entries and openings	Design exterior entries and openings to prevent water intrusion into buildings as follows.		Initials: Date:
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 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.		Initials: Date:
5.407.2.2.2	Flashing	Install flashings integrated with a drainage plane		Initials: Date:
<b>Chapter 9.21 City Municipal Code Construction and Demolition Debris</b>				
9.21.020	Regulated projects	A) Each applicant for a regulated project shall comply with the diversion requirements of PMC 9.21. Compliance with this chapter shall be a condition of approval for any building or demolition permit issued for a regulated project. The failure to impose this condition for any building or demolition permit shall not relieve the applicant from complying with this chapter. B. Each applicant for a project that is not a regulated project is encouraged to achieve an overall diversion rate of at least 75 percent. <b>(Be advised C&amp;D debris taken to Pleasanton Garbage Service will currently only result in a 72% diversion rate. Separation of materials will be required to achieve a minimum 75% diversion rate.)</b> (Ord. 2120 § 1, 2015; Ord. 1992 § 1, 2009).		Initials: Date:
9.21.030	Waste management plan	A. WMP Application. Each applicant of a regulated project shall submit an electronic WMP application through the city's designated online waste management and tracking system prior to beginning any project that requires a building, demolition, or similar construction permit. The completed WMP application shall include all of the following: 1. The address or location, building permit number(s) and description of the		Initials: Date:

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		<p>project;</p> <p>2. Project information, such as the job valuation, area of work, permit number, tract information (if known), project diversion rate and relevant personnel involved with this WMP;</p> <p>3. The estimated quantities of all materials to be salvaged, recycled and/or disposed;</p> <p>4. The hauling and disposal method;</p> <p>5. The facility or facilities being utilized for salvage, recycling or disposal of construction or demolition materials;</p> <p>6. The applicant shall certify their acknowledgement of, and agreement to comply with both the city's franchise collector requirements and hauling and self-hauling regulations. (Ord. 2120 § 1, 2015; Ord. 1992 § 1, 2009).</p>		
5.410.1.1	<b>Additions</b>	<p>All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.</p> <p><b>Exception:</b> Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.</p>		<p>Initials:</p> <p>Date:</p>
5.410.2	<b>Commissioning</b>	<p>For new buildings 10,000 square feet and over, building commissioning for all building systems covered by Title 24, Part 6, process systems and renewable energy systems shall be included in the design and construction processes of the building project.</p> <p>All occupancies other than I-occupancies and L-occupancies shall comply with the California Energy Code as prescribed in California Energy Code Section 120.8. For I-occupancies which are not regulated by OSHPD or for I-occupancies and L-occupancies which are not regulated by the California Energy Code Section 100.0</p> <p>Scope; all requirements in sections 5.410.2 through 5.410.2.6 shall apply. Commissioning requirements shall include items listed in Section 5.410.2. Commissioning requirements shall include items listed in Section 5.410.2</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Unconditional warehouses of any size.</li> <li>2. Areas under 10,000 feet used for offices or other conditioned accessory spaces within unconditioned warehouses</li> <li>3. Tenant improvements less than</li> </ol>		<p>Initials:</p> <p>Date:</p>

Reference	Description	Comments	Designer's Comments with Plan Detail Reference	City Use Only Field Inspection Verification
		10,000 square feet as described in Section 303.1.1. 4. Open parking garages of any size, or open parking garage areas of any size, within a structure.		
5.410.2.1	<b>Owner's Project Requirements (OPR)</b>	Documented before the design phase of the project begins the OPR shall include items listed in Section 5.410.2.1		Initials: Date:
5.410.2.2	<b>Basis of Design (BOD)</b>	A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project to cover the systems listed in Section 5.410.2.2.		Initials: Date:
5.410.2.3	<b>Commissioning Plan</b>	A commissioning plan describing how the project will be commissioned shall include items listed in Section 5.410.2.3.		Initials: Date:
5.410.2.4	<b>Functional Performance Testing</b>	Functional performance testing shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications.		Initials: Date:
5.410.2.5	<b>Documentation and training</b>	A systems manual and systems operations training are required.		Initials Date:
5.410.2.5.1	<b>Systems Manual</b>	The systems manual shall be delivered to the building owner or representative and facilities operator and shall include the items listed in Section 5.410.2.5.1.		Initials: Date:
5.410.2.5.2	<b>Systems operations training</b>	A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and shall include items listed in Section 5.410.2.5.2.		Initials: Date:
5.410.2.6	<b>Commissioning report</b>	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.		Initials: Date:
5.410.4	<b>Testing and adjusting</b>	Testing and adjusting of systems shall be required for buildings less than 10,000 square feet. Applies to new systems serving additions or alterations.		Initials: Date:
5.410.4.2	<b>Systems</b>	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, the systems listed in Section 5.410.4.2.		Initials: Date:
5.410.4.3	<b>Procedures</b>	Perform testing and adjusting procedures in accordance with applicable standards on each system as determined by the enforcing agency.		Initials: Date:
5.410.4.3.1	<b>HVAC Balancing</b>	Before a new space-conditioning system serving a building or space is operated for normal use, balance in accordance with the procedures defined by national standards listed in Section 5.410.4.3.1 or as approved by the enforcing agency.		Initials: Date:

Reference	Description	Comments	Designer's Comments with Plan Detail Reference	City Use Only Field Inspection Verification
5.410.4.4	<b>Reporting</b>	After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.		Initials: Date
5.410.4.5	<b>Operation and maintenance manual</b>	Provide the building owner with detailed operating and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection.		Initials: Date:
5.410.4.5.1	<b>Inspections and reports</b>	Include a copy of all inspection verifications and reports required by the enforcing agency.		Initials: Date:
<b>Environmental Quality</b>				
<b>Fireplaces</b>				
5.503.1		Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace or a sealed woodstove and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150.		Initials: Date:
5.503.1.1	<b>Woodstoves</b>	Woodstoves shall comply with US EPA New Source Performance Standards (NSPS) emission limits, where applicable, and shall have a permanent label indicating they are certified to meet the emission limits.		Initials: Date:
<b>Pollutant Control</b>				
5.504.1	<b>Temporary ventilation</b>	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, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy. Applies to additions or alterations.		Initials: Date:
5.504.3	<b>Covering of duct openings</b>	At the time of rough installation and 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, Sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.		Initials: Date:
5.504.4	<b>Finish material pollutant control</b>	Finish materials shall comply with Sections 5.504.1 through 5.504.4.6		Initials: Date:
5.504.4.1	<b>Adhesives, sealants, caulks</b>	Adhesives and sealants used on the project shall meet the requirements of the following standards. 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution		Initials: Date:

Reference	Description	Comments	Designer's Comments with Plan Detail Reference	City Use Only Field Inspection Verification
		control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. 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 one 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 <i>California Code of Regulations</i> , Title 17, commencing with Section 94507.		
<b>5.504.3</b>	<b>Paints and coatings</b>	Architectural paints and coatings shall comply with Table 5.504.4.3.		Initials: Date:
<b>5.504.4.3.1</b>	<b>Aerosol paints and coatings</b>	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 (CCR, Title 17, Section 94520, et seq.).		Initials:  Date:
<b>5.504.4.3.2</b>	<b>Verification</b>	Verification of compliance with this section shall be provided at the request of the enforcing agency.		Initials:  Date:
<b>5.504.4.4.4</b>	<b>Carpet systems</b>	All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.		Initials:  Date:
<b>5.504.4.4.4.1</b>	<b>Carpet cushion</b>	All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.		Initials:  Date:
<b>5.504.4.4.2</b>	<b>Carpet adhesive</b>	All carpet adhesive shall meet the requirements of Table 5.504.4.1.		Initials: Date:
<b>5.504.4.5</b>	<b>Composite wood products</b>	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.		Initials:  Date:
<b>5.504.4.5.3</b>	<b>Documentation</b>	Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: 1. Product certifications and		Initials:  Date:

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		<p>specifications.</p> <p>2.Chain of custody certifications.</p> <p>3.Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).</p> <p>4.Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.</p> <p>5.Other methods acceptable to the enforcing agency.</p>		
5.504.4.6	<b>Resilient flooring systems</b>	<p>For 80 percent of floor area receiving resilient flooring, install resilient flooring which meets one of the following:</p> <p>1.Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program.</p> <p>2.Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;</p> <p>3.Compliant with the Collaborative for High Performance Schools California (CA- CHPS) Criteria and listed in the CHPS High Performance Product Database; or</p> <p>4. Products certified under UL GREENGUARD Gold (formerly Greenguard Children's &amp; Schools Program).</p>		<p>Initials:</p> <p>Date:</p>
5.504.5.3	<b>Filters</b>	<p>In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a MERV of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.</p> <p><b>Exceptions:</b></p> <p>1. Existing mechanical equipment.</p>		<p>Initials:</p> <p>Date:</p>
<b>Indoor Moisture and Radon Control</b>				
5.505.1	<b>Indoor moisture control</b>	Buildings shall meet or exceed the provisions of <i>California Building Code</i> , CCR, Title 24, Part 2, Sections 1203 and Chapter 14.1. <sup>3</sup>		<p>Initials:</p> <p>Date:</p>
<b>Air Quality and Exhaust</b>				
5.506.1	<b>Outside air delivery</b>	For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 of the California Energy Code and Chapter 4 of CCR, Title 8.		<p>Initials:</p> <p>Date:</p>

Reference	Description	Comments	Designer's Comments with Plan Detail Reference	City Use Only Field Inspection Verification
5.506.2	<b>Carbon dioxide monitoring</b>	For buildings or additions equipped with demand control ventilation, CO <sub>2</sub> sensors and ventilation controls shall be specified and installed in accordance with the requirements of the <i>California Energy Code</i> , CCR, Sec. 120(c)(4).		Initials:  Date:
<b>Environmental Comfort</b>				
5.507.4	<b>Acoustical control</b>	Employ building assemblies and components with STC values determined in accordance with ASTM E 90 and ASTM E 413 or OITC determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.		Initials:  Date:
5.507.4.1	<b>Exterior noise transmission, prescriptive method</b>	Wall and floor-ceiling assemblies exposed to the noise source making up the building envelope shall have exterior wall and roof ceiling assemblies meeting 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 location described in items 1 and 2. Also applies to addition envelop or altered envelope.		Initials:  Date:
5.507.4.1.1	<b>Noise exposure where noise contours are no readily available</b>	Buildings exposed to a noise level of 65 dB L <sub>eq</sub> -1Hr 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 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). Also applies to addition or alteration exterior wall.		Initials:  Date:
5.507.4.2	<b>Performance Method</b>	For buildings located as defined in Sections A5.507.4.1 or A5.507.4.1.1, wall and roof-ceiling assemblies making up the building envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L <sub>eq</sub> -1 HR) of 50 dBA in occupied areas during any hour of operation. Also applies to addition envelope or altered envelope. <b>Site features.</b> Exterior features such as sound walls or earth berms may utilized as appropriate to the project to mitigate sound migration to the interior. Also applies to addition envelope or altered envelope.		Initials:  Date:
5.507.4.3	<b>Interior sound transmission</b>	Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.		Initials:  Date:
<b>Outdoor Air Quality</b>				
5.508.1	<b>Ozone depletion</b>	Installation of HVAC, refrigeration and		Initials:



TABLE 5.106.5.2

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	3
51-75	6
76-100	8
101-150	11
151-200	16
201 and over	At least 8 percent of total

TABLE 5.106.8 [N]  
MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS<sup>1,2</sup>

ALLOWABLE RATING	LIGHTING ZONE 1	LIGHTING ZONE 2	LIGHTING ZONE 3	LIGHTING ZONE 4
<b>Maximum Allowable Backlight Rating<sup>3</sup></b>				
Luminaire greater than 2 mounting heights (MH) from property line	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1 – 2 MH from property line	B2	B3	B4	B4
Luminaire back hemisphere is 0.5 – 1 MH from property line	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	B0	B0	B1	B2
<b>Maximum Allowable Uplight Rating</b>				
For area lighting <sup>4</sup>	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	U1	U2	U3	U4
<b>Maximum Allowable Glare Rating<sup>5</sup></b>				
Luminaire greater than 2 MH from property line	G1	G2	G3	G4
Luminaire front hemisphere is 1 – 2 MH from property line	G0	G1	G1	G2
Luminaire front hemisphere is 0.5 – 1 MH from property line	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.
3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.
4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting."
5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

**TABLE A5.303.2.2 WATER USE BASELINE<sup>3</sup>**

FIXTURE TYPE	BASELINE FLOW RATE	DURATION	DAILY USES	OCCUPANTS <sup>2</sup>
Showerheads	2.0 gpm @ 80 psi	5 min.	1	X <sub>2a</sub>
Lavatory faucets nonresidential	0.5 gpm @ 60 psi	.25 min.	3	X
Kitchen faucets	1.8 gpm @ 60 psi	4 min.	1	X <sub>2b</sub>
Replacement aerators	2 gpm @ 60 psi			X
Wash fountains	1.8 gpm/20 [rim space (in.) @ 60 psi]			X
Metering faucets	0.20 gallons/cycle	.25 min.	3	X
Metering faucets for wash fountains	0.20 gallons/cycle/20 [rim space (in.) @ 60 psi]	.25 min.	1 male <sup>1</sup> 3 female	X
Gravity tank type water closets	1.28 gallons/flush	1 flush	1 male <sup>1</sup> 3 female	X
Flushometer tank water closets	1.28 gallons/flush	1 flush	1 male <sup>1</sup> 3 female	X
Flushometer valve water closets	1.28 gallons/flush	1 flush	1 male <sup>1</sup> 3 female	X
Electromechanical hydraulic water closets	1.28 gallons/flush	1 flush	1 male <sup>1</sup> 3 female	X
Urinals	0.5 or 0.125 <sup>4</sup> gallons/flush	1 flush	2 male	X

1. The daily use number shall be increased to three if urinals are not installed in the room. 2. Refer to Table A, Chapter 4, 2019 *California Plumbing Code*, for occupant load factors. a. Shower use by occupants depends on the type of use of a building or portion of a building, e.g., total occupant load for a health club, but only a fraction of the occupants in an office building as determined by the anticipated number of users. b. Kitchen faucet use is determined by the occupant load of the area served by the fixture. 3. Use worksheet WS-1 to calculate baseline water use. 4. Floor-mounted urinals @ 0.5 GPF or wall-mounted urinals @ 0.125 GPF.

**TABLE 5.504.4.1  
ADHESIVE VOC LIMIT<sup>1,2</sup>  
Less Water and Less Exempt Compounds in Grams Per Liter**

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesive not specifically listed	50
<b>SPECIALTY APPLICATIONS</b>	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
<b>SUBSTRATE SPECIFIC APPLICATIONS</b>	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

1. If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, <http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF>.

**TABLE 5.504.4.2  
SEALANT VOC LIMIT  
Less Water and Less Exempt Compounds in Grams per Liter**

SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
<b>SEALANT PRIMERS</b>	
Architectural	
Nonporous	250
Porous	775
Modified bituminous	500
Marine deck	760
Other	750

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

**TABLE 5.504.4.5  
FORMALDEHYDE LIMITS<sup>1</sup>**

**Maximum Formaldehyde Emissions in Parts per Million**

<b>PRODUCT</b>	<b>CURRENT LIMIT</b>
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard <sup>2</sup>	0.13

1. Values in this table are derived from those specified by the California Air

Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. For additional information, see *California Code of Regulations*, Title 17, Sections 93120 through 93120.12.

2. Thin medium density fiberboard has a maximum thickness of  $5/16$  inch (8 mm).