

## PROJECT SUBMITTAL GUIDELINE: CALGREEN CODE

With the adoption of the California Green Building standards Code (CALGreen), Part 11 of Title 24, DSA will review projects for compliance with the mandatory measures on projects submitted. All new buildings (new construction) submitted to DSA for review, as a single project or in a series of increments, on or after January 1, 2014 must comply with the 2013 CALGreen Code. However, for purposes of the Energy Code, effective on or after July 1, 2014, the application of standards shall be in accordance with Title 24, Part 6, Table 100.0-A.

### **DSA Review for CALGreen Mandatory Measures**

The Project Submittal Checklist (form [DSA 3](#)) includes the checklist items that will be reviewed for CALGreen compliance at intake. The intake specialist will review these items and will note any discrepancies on the drawings. If the DSA checklist items are not addressed for the Green Code, the drawings will be returned as incomplete. The DSA CALGreen review is limited to the mandatory measures, as listed in Chapter 5 of the CALGreen Code. Chapter A5 is an appendix with voluntary measures provided as a guideline to further encourage green building design practices.

For Commissioning requirements refer to Title 24, Part 6 (Energy Code). Note that the measures outlined in Title 24, Part 11 (CALGreen Code), Chapter 5, Section 5.410.2 for Commissioning and Section 5.410.4 for Testing and Adjusting are *not* adopted as mandatory standards by DSA; however, are additional optional verification practices that are encouraged and recommended to ensure performance, comfort, system durability, reliability, indoor air quality, and efficiency.

### **Attachment 1 - 2013 California Green Building Standards Code Application Matrix**

**Note:** The following measures are each an excerpt from the CALGreen Code; for the complete text, consult the 2013 California Green Building Standards Code (Title 24, Part 11).

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A DSA Project Submittal Guideline is a compilation of recommendations based on Code, referenced standards, DSA [USP](#) documents, and DSA practices. These guidelines are designed to give the design profession helpful information and insight into the DSA project application, submittal and review processes. Guidelines are provided by DSA in support of the USP goals of giving stakeholders the information they need in order to work smoothly with DSA and to help standardized practices among the four DSA Regional Offices.

Compliance with a Guideline does not assure that a project is complete or that it adheres to the requirements of the California Building Standards Code (Title 24 of the California Code of Regulations) or all DSA requirements. Additional information may be required, depending on project complexity or site conditions. For complete submittal requirements see forms DSA-1 and DSA-3.

**CALGREEN CODE**

**2013 CALIFORNIA GREEN BUILDING STANDARDS CODE**

Division of the State Architect – Structural Safety (DSA-SS)

(CCR, Title 24, Part 11)

| <b>APPLICATION MATRIX</b>  | <b>Mandatory Chapter 5</b> |
|--|----------------------------|
| <b>DIVISION 5.1 - PLANNING AND DESIGN</b>  |                            |
| <b>SITE DEVELOPMENT</b>  |                            |
| <p><b>5.106.4.2 Bicycle parking.</b><br/>For public schools and community colleges comply with Sections 5.106.4.2.1 and 5.106.4.2.2</p>  | ☒                          |
| <p><b>5.106.4.2.1 Student bicycle parking.</b><br/>Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.</p>   | ☒                          |
| <p><b>5.106.4.2.2 Staff bicycle parking.</b><br/>Provide permanent secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:</p> <ol style="list-style-type: none"> <li>1. Covered, lockable enclosures with permanently anchored racks for bicycles;</li> <li>2. Lockable bicycle rooms with permanently anchored racks; or</li> <li>3. Lockable, permanently anchored bicycle lockers.</li> </ol>   | ☒                          |
| <p><b>5.106.8 Light pollution reduction [N].</b><br/>Outdoor lighting systems shall be designed and installed to comply with the following:</p> <ol style="list-style-type: none"> <li>1. The minimum requirements in the <i>California Energy Code</i> for Lighting Zones 1-4 as defined in Chapter 10 of the California Administrative Code; and</li> <li>2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and</li> <li>3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or</li> <li>4. Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.</li> </ol> <p><b>Exceptions: [N]</b></p> <ol style="list-style-type: none"> <li>1. Luminaires that qualify as exceptions in Section 147 of the <i>California Energy Code</i>.</li> <li>2. Emergency lighting.</li> </ol> <p><b>Note: [N]</b> See also <i>California Building Code</i>, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.</p> <p style="text-align: center;">Table 5.106.8</p> | ☒                          |
| <p><b>5.106.10 Grading and paving.</b><br/>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"> <li>1. Swales.</li> <li>2. Water collection and disposal systems.</li> <li>3. French drains.</li> <li>4. Water retention gardens.</li> <li>5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.</li> </ol> <p><b>Exception:</b> Additions and alterations not altering the drainage path.</p>  | ☒                          |
| <b>DIVISION 5.2 - ENERGY EFFICIENCY</b>  |                            |
| <b>GENERAL</b>   |                            |
| <p><b>5.201.1 California Energy Code.</b> For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.</p>   | ☒                          |

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| <b>APPLICATION MATRIX</b>   | <b>Mandatory Chapter 5</b> |
|---|----------------------------|
| <b>DIVISION 5.3 - WATER EFFICIENCY AND CONSERVATION</b>   |                            |
| <b>INDOOR WATER USE</b>   |                            |
| <p style="text-align: center;"><b>5.303.3.4 Faucets and fountains.</b></p> <p><b>5.303.3.4.1 Non-residential lavatory faucets.</b> Non-residential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.</p> <p><b>5.303.3.4.2 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 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 flow rate of 1.8 gallons per minute at 60 psi.</p> <p><b>5.303.3.4.3 Wash fountains.</b> Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20[rin space (inches) at 60 psi].</p> <p><b>5.303.3.4.4 Metering faucets.</b> Metering faucets shall not deliver more than 0.20 gallons per cycle.</p> <p><b>5.303.3.4.5 Metering faucets for wash fountains.</b> Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20[rin space (inches) at 60 psi].</p> <p>Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.</p> | ☒                          |
| <p><b>5.303.3 Water conserving plumbing fixtures and fittings.</b><br/>Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:</p>  | ☒                          |
| <p><b>5.303.3.1 Water closets.</b><br/>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 Specifications for Tank-Type Toilets.</p> <p style="text-align: center;">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><b>5.303.3.2 Urinals.</b><br/>The effective flush volume of all urinals shall not exceed 0.5 gallons per flush.</p>  | ☒                          |
| <p><b>5.303.3.3 Showerheads</b></p> <p><b>5.303.3.3.1 Single showerhead</b><br/>Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for showerheads.</p> <p><b>5.303.3.3.2 Multiple showerheads serving one shower.</b><br/>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 2.0 gallons per minute at 80 psi, or the showerhead shall be designed to allow only one shower outlet to be in operation at one time.</p> <p style="text-align: center;">Note: A hand-held shower shall be considered a showerhead.</p>   | ☒                          |
| <p><b>5.303.6 Standards for plumbing fixtures and fittings.</b><br/>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 1401.1 of the <i>California Plumbing Code</i> and in Chapter 6 of this code.</p>  | ☒                          |

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| <b>APPLICATION MATRIX</b>   |                                     | <b>Mandatory<br/>Chapter 5</b> |
|---|-------------------------------------|--------------------------------|
| <b>DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b>   |                                     |                                |
| <b>WATER RESISTANCE AND MOISTURE MANAGEMENT</b>   |                                     |                                |
| <p><b>5.407.1 Weather protection.</b><br/>Provide a weather-resistant exterior wall and foundation envelope as required by <i>California Building Code</i> Section 1403.2 (Weather Protection) and <i>California Energy Code</i> Section 150, (Mandatory Features and Devices), manufacturer's installation instructions, or local ordinance, whichever is more stringent.</p>  | <input checked="" type="checkbox"/> |                                |
| <p><b>5.407.2 Moisture control.</b><br/>Employ moisture control measures by the following methods.</p> <p style="margin-left: 20px;"><b>5.407.2.1 Sprinklers.</b><br/>Design and maintain landscape irrigation systems to prevent spray on structures.</p> <p style="margin-left: 20px;"><b>5.407.2.2 Entries and openings.</b><br/>Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:</p> <p style="margin-left: 40px;"><b>5.407.2.2.1 Exterior door protection.</b> 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:</p> <ol style="list-style-type: none"> <li>An installed awning at least 4 feet in depth.</li> <li>The door is protected by a roof overhang at least 4 feet in depth.</li> <li>The door is recessed at least 4 feet.</li> <li>Other methods which provide equivalent protection.</li> </ol> <p style="margin-left: 40px;"><b>5.407.2.2.2 Flashing.</b> Installed flashing integrated with a drainage plane.</p> | <input checked="" type="checkbox"/> |                                |
| <b>CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING</b>   |                                     |                                |
| <p><b>5.408.1 Construction waste management.</b><br/>Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.</p>  | <input checked="" type="checkbox"/> |                                |
| <p><b>5.408.1.1 Construction waste management plan.</b><br/>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</p> <ol style="list-style-type: none"> <li>Identifies the 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.</li> <li>Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).</li> <li>Identifies diversion facilities where construction and demolition waste material collected will be taken.</li> <li>Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.</li> </ol>   | <input checked="" type="checkbox"/> |                                |
| <p><b>5.408.1.2 Waste management company.</b><br/>Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.</p> <p style="margin-left: 20px;"><b>Note:</b> The owner or contractor shall make the determination of the construction and demolition waste material will be diverted by a waste management company.</p> <p style="margin-left: 20px;"><b>Exceptions to Sections 5.408.1.1 and 5.408.1.2:</b></p> <ol style="list-style-type: none"> <li>Excavated soil and land-clearing debris.</li> <li>Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.</li> <li>Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.</li> </ol>   | <input checked="" type="checkbox"/> |                                |
| <p><b>5.408.1.3 Waste stream reduction alternative.</b><br/>The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 50 percent minimum requirement as approved by the enforcing agency.</p>   | <input checked="" type="checkbox"/> |                                |

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| <b>APPLICATION MATRIX</b>   | <b>Mandatory Chapter 5</b>          |
|---|-------------------------------------|
| <b>BUILDING MAINTENANCE AND OPERATION</b>   |                                     |
| <p><b>5.410.1 Recycling by occupants.</b><br/>Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.</p>   | <input checked="" type="checkbox"/> |
| <p><b>5.410.1.2 Sample ordinance.</b><br/>Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the <i>Public Resources Code</i>. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).</p> <p style="margin-left: 40px;"><b>Note:</b> A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's website.</p>   | <input checked="" type="checkbox"/> |
| <b>DIVISION 5.5 ENVIRONMENTAL QUALITY</b>   |                                     |
| <b>POLLUTANT CONTROL</b>  |                                     |
| <p><b>5.504.3 Covering of duct openings and protection of mechanical equipment during construction.</b><br/>At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution 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.</p>  | <input checked="" type="checkbox"/> |
| <p><b>5.504.4 Finish material pollutant control:</b><br/>Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.4.</p> <p><b>5.504.4.1 Adhesives, sealants, and caulks.</b><br/>Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards.</p> <ol style="list-style-type: none"> <li>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 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the 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.</li> <li>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.</li> </ol> <p style="text-align: center;">TABLE 5.504.4.1 - ADHESIVE VOC LIMIT<br/>TABLE 5.504.4.2 - SEALANT VOC LIMIT</p> | <input checked="" type="checkbox"/> |
| <p><b>5.504.4.3 Paints and coatings.</b><br/>Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, 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 5.504.4.3, shall be determined by classifying the coating as a 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 5.504.4.3 shall apply.</p> <p style="text-align: center;">TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS</p>   | <input checked="" type="checkbox"/> |
| <p><b>5.504.4.3.1 Aerosol paints and coatings.</b><br/>Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of <i>California Code of Regulations</i>, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.</p> <p style="text-align: center;">TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS</p>   | <input checked="" type="checkbox"/> |

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| <b>APPLICATION MATRIX</b>   | <b>Mandatory Chapter 5</b> |
|---|----------------------------|
| <p><b>5.504.4.4 Carpet systems.</b><br/>All carpet installed in the building interior shall meet at least one of the following testing and product requirements:</p> <ol style="list-style-type: none"> <li>1. Carpet and Rug Institute's Green Label Plus Program.</li> <li>2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1. or <i>Specification 01350</i>)</li> <li>3. NSF/ANSI 140 at the Gold level or higher.</li> <li>4. Scientific Certifications Systems Sustainable Choice; or</li> <li>5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database.</li> </ol> | ☒                          |
| <p><b>5.504.4.4.1 Carpet cushion.</b><br/>All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.</p>  | ☒                          |
| <p><b>5.504.4.4.2 Carpet adhesive.</b><br/>All carpet adhesive shall meet the requirements of Table 5.504.4.1.</p>  | ☒                          |
| <p><b>5.504.4.5 Composite wood products.</b><br/>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 ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5.</p> <p style="text-align: center;"><b>TABLE 5.504.4.5 - FORMALDEHYDE LIMITS</b></p>  | ☒                          |
| <p><b>5.504.4.6 Resilient flooring systems-</b><br/>For 80% of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following :</p> <ol style="list-style-type: none"> <li>1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;</li> <li>2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;</li> <li>3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database; or</li> <li>4. Products certified under the UL GREENGUARD Gold (formerly the Greenguard Children &amp; Schools program).</li> </ol>  | ☒                          |
| <p><b>5.504.5.3 Filters.</b><br/>In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 8. MERV 8 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> <ol style="list-style-type: none"> <li>1. An ASHRAE 10-percent to 15-percent efficiency filter shall be permitted for an HVAC unit meeting the <i>2013 California Energy Code</i> 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 the design air flow.</li> <li>2. Existing mechanical equipment.</li> </ol>  | ☒                          |
| <p><b>5.504.5.3.1 Labeling.</b><br/>Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.</p>  | ☒                          |
| <b>INDOOR MOISTURE CONTROL</b>  |                            |
| <p><b>5.505.1 Indoor moisture control.</b><br/>Buildings shall meet or exceed the provisions of <i>California Building Code</i>, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.</p>  | ☒                          |
| <b>INDOOR AIR QUALITY</b>   |                            |
| <p><b>5.506.1 Outside air delivery.</b><br/>For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 121 (Requirements For Ventilation) of the 2010 <i>California Energy Code</i>, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.</p>  | ☒                          |

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|---|----------------------------|
| <b>ENVIRONMENTAL COMFORT</b>  |                            |
| <p><b>5.507.4 Acoustical control.</b><br/>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 in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.</p> <p><b>Exception:</b> Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.</p> <p><b>Exception: [DSA-SS]</b> For public schools and community colleges, the requirement of this section and all subsections apply only to new construction.</p>   | ☒                          |
| <p><b>5.507.4.1 Exteriors noise transmission prescriptive method.</b><br/>Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope 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"> <li>1. Within the 65 CNEL noise contour of an airport.<br/>Exceptions:                     <ol style="list-style-type: none"> <li>1. <math>L_{dn}</math> or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.</li> <li>2. <math>L_{dn}</math> or CNEL for other airports and heliports for which a land use plans has not been developed shall be determined by the local general plan noise element.</li> </ol> </li> <li>2. Within the 65 CNEL or <math>L_{dn}</math> noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.</li> </ol> | ☒                          |
| <p><b>5.507.4.1.1 Noise exposure where noise contours are not readily available.</b><br/>Buildings exposed to a noise level of 65 <math>dB_{Leq}</math>-1-hr during any hour of operation shall have building, addition or alteration 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).</p>  | ☒                          |
| <p><b>5.507.4.2 Performance method.</b><br/>For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (<math>L_{eq}</math> -1Hr) of 50 dBA in occupied areas during any hour of operation.</p>  | ☒                          |
| <p><b>5.507.4.2.1 Site features.</b><br/>Exterior features such as sound wall or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.</p>  | ☒                          |
| <p><b>5.507.4.3 Interior sound transmission.</b><br/>Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.<br/>Note: Examples of assemblies and their various STC rating may be found at the California Office of Noise Control website.</p>   | ☒                          |
| <b>OUTDOOR AIR QUALITY</b>  |                            |
| <p><b>5.508.1 Ozone depletion and greenhouse gas reductions.</b> Install HVAC and refrigeration and fire suppression equipment shall comply with 5.508.1.1 and 5.508.1.2.</p> <p><b>5.508.1.1 Chlorofluorocarbons (CFCs)</b> Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.</p> <p><b>5.508.1.2 Halons</b> Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.</p>   | ☒                          |