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GREEN BUILDING INFORMATIONAL HANDOUT

# 2019 CALGreen Checklist for NONRESIDENTIAL/COMMERCIAL MINOR ADDITIONS AND REMODELS

**Scope:** Applies to non-residential projects that

- Are less than 3,000 square feet meeting Mill Valley Mandatory CALGreen Checklist

Detached “U” occupancy buildings are not subject to CALGreen.

## **Instructions:**

1. Read this checklist and understand the project requirements.
2. Consult with designer, contractor and/or certified Green Building rater to incorporate any mandatory CALGreen measures into the design (column 3) and construction (column 4) of your project, and mark accordingly on the checklist.

## *Incorporation into Design:*

3. The designer, contractor and/or Green Building rater must indicate in Column 3 of the checklist all applicable measures incorporated into the project. Provide an explanation of scope of work if the measure is marked “N/A” (not applicable).
4. Sign Section 1 on the Acknowledgements page of the checklist.
5. Copy and submit checklist and acknowledgements page as part of building permit application.
6. Include this checklist on the approved set of plans for the project.

## *Verification Prior to Final Construction:*

7. Review and revise checklists, as needed during construction.
8. Complete Column 4 and sign and date signature page under Final Construction Verification at the end of this checklist prior to final inspection by the Building Department.

<p align="center"><b>Column 1</b> Feature or Measure</p> <p><i>All listed measures are required, where applicable, to portions of the building added to or altered as part of the permitted work.</i></p> <p><i>See Chapter 5 of the 2019 California Green Building Code for complete descriptions</i></p>	<p align="center"><b>Column 2</b> Mandatory Requirements</p> <p><i>All measures required unless not applicable "N/A" to permitted work</i></p>	<p align="center"><b>Column 3</b> Design Verification</p> <p><i>Complete as part of design</i></p>	<p align="center"><b>Column 4</b> Construction Verification</p> <p><i>Complete after measure is installed</i></p>
<p align="center"><b>MANDATORY MEASURES FOR ADDITIONS AND ALTERATIONS TO EXISTING NONRESIDENTIAL BUILDINGS</b></p>		<p align="center">Certification at design</p>	<p align="center">Certification at construction</p>
<p><b>PLANNING &amp; DESIGN (DIVISION 5.1)</b></p>			
<p><b>5.106.1 Storm water pollution prevention.</b> <u>Additions</u> that disturb less than one acre of land shall prevent the pollution of stormwater runoff from construction activities in accordance with Mill Valley requirements.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.106.4 Bicycle parking.</b> Comply with Sections 5.106.4.1.1 and 5.106.4.1.2.</p> <p><b>5.106.4.1.1 Short-term bicycle parking.</b> If the project is anticipated to generate visitor traffic and adds 10 or more vehicular parking spaces, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of the additional visitor motorized vehicle parking capacity, with a minimum of one two-bike rack.</p> <p><b>5.106.4.1.2 Long-term bicycle parking.</b> <u>For buildings adding 10 or more tenant vehicular parking spaces</u>, provide secure bicycle parking for 5% of the additional vehicular parking spaces added, with a min of one space.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.106.5.2 Designated parking for clean air vehicles.</b> For <u>projects that add 10 or more vehicular parking spaces</u>, provide designated parking for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as shown in Table 5.106.5.2 based on the number of additional spaces.</p> <p><b>5.106.5.2.1 Parking stall marking.</b> If applicable above, paint the following characters so the lower edge of the last word aligns with the end of the stall striping, visible beneath a parked vehicle: " CLEAN AIR /VANPOOL / EV "</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.106.10 Grading and Paving.</b> For <u>projects altering the drainage path</u>, 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 those shown below:</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>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>ENERGY EFFICIENCY (Division 5.2)</b></p>			
<p><b>5.201.1 Scope.</b> Building shall meet or exceed the requirements of the California Building Energy Efficiency Standards.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>



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<p><b>5.303.3.4 Faucets and fountains.</b> Faucets and fountains shall comply with all of the following:</p> <p><b>5.303.3.4.1 Nonresidential lavatory faucets.</b> Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.</p> <p><b>5.303.3.4.3 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 [rim 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 cycle/20 [rim space (inches) at 60. psi].</p> <p><b>Note:</b> Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.</p>	<p align="center">Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/> (all applicable measures)</p>	<p align="center"><input type="checkbox"/> (all applicable measures)</p>
<p><b>5.303.4 Commercial kitchen equipment.</b></p> <p><b>5.303.4.1 Food waste disposers.</b> 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.</p> <p><b>5.303.5 Areas of additions or alteration.</b> For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alterations to the building.</p>	<p align="center">Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.303.6 Standards for plumbing fixtures and fittings.</b> Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.</p>	<p align="center">Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.304.1 Scope.</b> The provisions of Section 5.304 Outdoor Water Use reference the mandatory Model Water Efficiency Landscape Ordinance (MWELO) contained within Chapter 2.7, Division 2, Title 23, <i>California Code of Regulations</i> and with Marin Municipal Water District landscape guidelines.</p>	<p align="center">Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.304.2. Outdoor potable water use.</b> For building additions or alterations requiring <u>upgraded water service for landscaped areas of at least 1,000 square feet</u> but not more than 5,000 square feet, separate submeters or metering devices shall be installed for outdoor potable water use.</p>	<p align="center">Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

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<p><b>5.304.3 Outdoor water use in rehabilitated landscape projects equal to or greater than 2,500 square feet.</b> Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review shall comply with Section 5.304.2, Item 1 or 2.</p> <p><b>5.304.4 Outdoor water use in landscape areas of 2,500 square feet or less.</b> Any project with an aggregate landscape area of 2,500 square feet or less may comply with the performance requirements of .MWELo or conform to the prescriptive compliance measures contained in MWELo's Appendix D.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.304.5 Graywater or rainwater use in landscape areas.</b> For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2,500 square feet of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D Section (5).</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY (Division 5.4)</b></p>			
<p><b>5.407 Weather Resistance and Moisture Management.</b></p> <p><b>5.407.1 Weather protection.</b> Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 and California Energy Code Section 150, manufacturer's installation instructions, or local ordinance, whichever is more stringent.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.407.2 Moisture control.</b> When <u>adding or altering irrigation sprinklers or entries and openings to a building</u>, employ moisture control measures by the following methods;</p> <p><b>5.407.2.1 Sprinklers.</b> Prevent irrigation spray on structures.</p> <p><b>5.407.2.2 Entries and openings.</b> Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

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<p><b>5.408 Construction Waste Reduction, Disposal and Recycling.</b></p> <p><b>Construction waste management.</b> Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction waste in accordance with Section 5.408.1.1 or 5.408.1.2; or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.</p> <p><b>Construction waste management plan.</b> Submit a construction waste management plan that complies with Items 1 through 4 of Section 5.408.1.1. <b>(Support documentation required prior to permit issuance)</b></p> <p><b>Waste management company.</b> Utilize a waste management company that can provide verifiable documentation that the percentage of construction waste material diverted from the landfill complies with this section. <b>(Support documentation required prior to permit issuance)</b></p> <p><b>Exceptions to Sections 5.408.1.1 and 5.408.1.2:</b></p> <ol style="list-style-type: none"> <li>1. Excavated soil and land-clearing debris</li> <li>2. 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>3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.</li> </ol> <p><b>Waste stream reduction alternative.</b> 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> <p><b>Documentation.</b> Provide documentation of the waste management plan that meets the requirements listed in Sections 5.408.1.1 through 5.408.1.3, and the plan is accessible to the enforcement authority. <b>(Support documentation required prior to permit issuance)</b></p> <p><b>5.408.2 Universal Waste.</b> [A] Additions and alterations to a building or tenant space shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.</p> <p><b>Note:</b> Refer to the Universal Waste Rule link at: <a href="http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEARA_REGS_UWR_FinalText.pdf">http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEARA_REGS_UWR_FinalText.pdf</a></p> <p><b>5.408.3 Excavated soil and land clearing debris.</b> 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled.</p> <p><b>Exception:</b> Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory</p> <p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory</p> <p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory</p> <p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory or <input type="checkbox"/> N/A</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>

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<p><b>5.410 Building Maintenance and Operation.</b></p> <p><b>5.410.1 Recycling by occupants.</b> Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling.</p> <p><b>5.410.1.1 Additions.</b> All <u>additions</u> 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. <b>Exception:</b> Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.</p>	<p>Mandatory</p> <p>Mandatory or <input type="checkbox"/> N/A</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>5.410.4 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. Applies to new systems serving additions or alterations.</p> <p><b>5.410.4.2 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 following:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> HVAC systems and controls.</li> <li><input type="checkbox"/> Indoor and outdoor lighting and controls.</li> <li><input type="checkbox"/> Water heating systems.</li> <li><input type="checkbox"/> Renewable energy systems.</li> <li><input type="checkbox"/> Landscape irrigation systems.</li> <li><input type="checkbox"/> Water reuse systems.</li> </ul> <p><b>5.410.4.3 Procedures.</b> Perform testing and adjusting procedures in accordance with applicable standards on each system as determined by the enforcing agency.</p> <p><b>5.410.4.3.1 HV AC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, balance the system in accordance with the procedures defined by national standards listed in Section 5.410.4.3.1 or as approved by the enforcing agency.</p> <p><b>5.410.4.4 Reporting.</b> After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.</p> <p><b>5.410.4.5 Operation and maintenance manual.</b> Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each added or altered system prior to final inspection.</p> <p><b>5.410.4.5.1 Inspections and reports.</b> Include a copy of all inspection verifications and reports required by the enforcing agency.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory or <input type="checkbox"/> N/A</p> <p>Mandatory or <input type="checkbox"/> N/A</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>ENVIRONMENTAL QUALITY (Division 5.5)</b></p>			
<p><b>5.503 Fireplaces.</b></p> <p><b>5.503.1 General (Fireplaces).</b> Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove meeting the requirements of Mill Valley.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>

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<b>POLLUTANT CONTROL</b>			
<p><b>5.504 Pollutant Control.</b></p> <p><b>5.504.1.3 Temporary ventilation.</b> If the HV AC system serving the added or altered area(s) is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters of the HV AC system serving the added or altered area(s) immediately prior to occupancy.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.504.3 Covering of duct openings and protection of mechanical equipment during construction.</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, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.504.4 Finish material pollutant control.</b> Newly installed finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.</p> <p><b>5.504.4.1 Adhesives, sealants, caulks.</b> Newly installed adhesives and sealants 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. in Division 5</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 California Code of Regulations, Title 17, commencing with Section 94507.</li> </ol>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/></p>	<p align="center"><input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/></p>
<p><b>5.504.4.3 Paints and coatings.</b> Newly installed architectural paints and coatings shall comply with Table 5.504.4.3 in Division 5.5.</p> <p><b>5.504.4.3.1 Aerosol Paints and Coatings.</b> Newly installed 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).</p> <p><b>5.504.4.3.2 Verification.</b> Verification of compliance with this section shall be provided when requested by the enforcing agency.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/></p>	<p align="center"><input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/></p>



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<p><b>5.504.4.4 Carpet systems.</b> All newly installed carpet in the building interior shall meet the testing and product requirements of one of the standards listed in Section 5.504.4.4.</p> <p><b>5.504.4.4.1 Carpet cushion.</b> All newly installed carpet cushion 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> All newly installed carpet adhesive shall meet the requirements of Table 5.504.4.1 in Division 5.5.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.504.4.5 Composite wood products.</b> Newly installed hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in Table 5.504.4.5.</p> <p><b>5.504.4.5.2 Documentation.</b> Verification of compliance with this section shall be provided when requested by the enforcing agency. Documentation shall include at least one of the following as applicable.</p> <ol style="list-style-type: none"> <li>1. Product certifications and specifications.</li> <li>2. Chain of custody certifications.</li> <li>3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, etseq.)</li> <li>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.</li> <li>5. Other methods acceptable to the enforcing agency.</li> </ol>	<p>Mandatory or <input type="checkbox"/> N/A Mandatory</p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.504.4.6 Resilient flooring systems.</b> For 80 percent of floor area receiving resilient flooring, install resilient flooring that meets one of the following:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;</li> <li><input type="checkbox"/> 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;</li> <li><input type="checkbox"/> 3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and 7.1 (formerly EQ. 2.2) dated July 2012 and listed in the CHPS High Performance Product Database; or</li> <li><input type="checkbox"/> 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's &amp; Schools Program).</li> </ul> <p><b>5.504.4.6.1 Verification of compliance.</b> Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. <b>(Support documentation required prior to final inspection approval)</b></p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>



<p align="center"><b>Column 1</b> <b>Feature or Measure</b></p> <p><i>All listed measures are required, where applicable, to portions of the building added to or altered as part of the permitted work.</i></p> <p><i>See Chapter 5 of the 2019 California Green Building Code for complete descriptions</i></p>	<p align="center"><b>Column 2</b> <b>Mandatory Requirements</b></p> <p><i>All measures required unless not applicable "N/A" to permitted work</i></p>	<p align="center"><b>Column 3</b> <b>Design Verification</b></p> <p><i>Complete as part of design</i></p>	<p align="center"><b>Column 4</b> <b>Construction Verification</b></p> <p><i>Complete after measure is installed</i></p>
<p><b>5.507 Environmental Comfort.</b></p> <p><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 5.07.4.1 or 5.507.4.2. <b>(Support documentation required prior to permit issuance)</b></p> <p><b>Exterior noise transmission, <u>Prescriptive Method</u>.</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 <u>or</u> OITC of 30 in the locations described in Items 1 and 2.</p> <p><b>Noise exposure where noise contours are not readily available.</b> Buildings exposed to a noise level of 65 dB <math>L_{eq-1Hr}</math> during any hour of operation shall have exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC or rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). or</p> <p><b>Exterior noise transmission, <u>Performance Method</u>.</b> For buildings located as defined in Sections 5.507.4.1 or 5.507.4.1.1, 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 (<math>L_{eq-1Hr}</math>) of 50 dBA in occupied areas during any hour of operation.</p> <p><b>Site features.</b> Exterior features such as sound walls or earth berms may be utilized as appropriate to the project to mitigate sound migration to the interior.</p> <p><b>Documentation of compliance.</b> An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.</p>	<p align="center"><i>Choose either Prescriptive or Performance method</i></p> <p><input type="checkbox"/> Prescriptive</p>   <p align="center">or</p> <p><input type="checkbox"/> Performance</p>	<p align="center"><i>Verify either Prescriptive or Performance method</i></p> <p><input type="checkbox"/></p>   <p align="center">or</p> <p><input type="checkbox"/></p>   <p><input type="checkbox"/></p>   <p><input type="checkbox"/></p>	<p align="center"><i>Verify either Prescriptive or Performance method</i></p> <p><input type="checkbox"/></p>   <p align="center">or</p> <p><input type="checkbox"/></p>   <p><input type="checkbox"/></p>   <p><input type="checkbox"/></p>
<p><b>5.507.4.3 Interior sound transmission.</b> <u>Newly installed wall and floor-ceiling assemblies separating tenant spaces and public places</u> shall have an STC of at least 40.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>

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<p><b>5.508 Outdoor Air Quality.</b></p> <p><b>Ozone depletion and greenhouse gas reductions.</b> <u>New</u> installations of HVAC, refrigeration, and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2 below.</p> <p><b>Chlorofluorocarbons (CFCs).</b> Install HVAC, refrigeration and fire suppression equipment that does not contain CFCs.</p> <p><b>Halons.</b> Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.</p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>5.508.2 Supermarket refrigerant leak reduction.</b> New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.</p> <p><b>Exception:</b> Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO<sub>2</sub>), and potentially other refrigerants.</p> <p><b>[NOTE: See all requirements for refrigerant piping, valves, refrigerated service cases, refrigerant receivers, pressure testing and system evacuation contained under section 5.508.2.]</b></p>	<p>Mandatory or <input type="checkbox"/> N/A</p>	<p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>

<b>INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS</b>	<b>All checked items are required for the project</b>	<b>Certification by designer, contractor and/or rater at Design</b>	<b>Certification by designer, contractor and/or rater at Final Construction</b>
<b>Qualifications (Chapter 7)</b>			
<b>702.1</b> HVAC system installers (if any) are trained and certified in the proper installation of HVAC systems.	Mandatory or <input type="checkbox"/> N/A		<input type="checkbox"/>
<b>702.2</b> The CALGreen Special Inspector for this project is qualified and able to demonstrate competence in the discipline they inspect and verify.	Mandatory		<input type="checkbox"/>
<b>Verifications</b>			
<b>703.1</b> Verification of compliance with CALGreen for Nonresidential Additions and Alterations may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance. Implementation verification shall be submitted to the Building Department after implementation of all required measures and prior to final inspection approval.	Mandatory		<input type="checkbox"/>

# Green Building Acknowledgments

Project Address &  
Permit No: \_\_\_\_\_

## Section 1 - Design Verification

Complete all lines of Section 1- "Design Verification" and submit the completed checklist (Columns 2 and 3) with the plans and building permit application to the Building Department.

The owner and certified professional (such as design professional, contractor, or green building rater) have reviewed the plans certifying that the items checked above are hereby incorporated into the project design for the plans submitted, and will be implemented as part of the construction of the project.

\_\_\_\_\_  
Owner's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner Name (Please Print)

\_\_\_\_\_  
Certified Professional's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Design Professional's Name (Please Print)

\_\_\_\_\_  
E-mail Address

\_\_\_\_\_  
Certification Type (license #)

## Section 2 – Construction Verification

Complete, sign and submit the completed checklist, including Column 4, together with all original signatures to the Building Department prior to Building Department final inspection.

I have inspected the work and have received sufficient documentation to verify and certify that the project above was constructed in accordance with this Green Building Checklist and in accordance with the requirements set forth in the 2019 California Green Building Standards Code as amended by the Mill Valley Municipal Code.

\_\_\_\_\_  
Signature of Designer, Contractor and/or Green Building Rater

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name (Please Print)

\_\_\_\_\_  
Phone (if different than above)

\_\_\_\_\_  
E-mail Address (if different than above)

\_\_\_\_\_  
Certification Type (license #)