

# CITY OF ORLAND

## BUILDING DEPARTMENT

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Orland, CA 95963  
Telephone (530) 865-1606  
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## 2019 CALGreen Checklist for Non – Residential Additions & Alterations

*Applies to Nonresidential Addition and Alteration projects without sleeping accommodations and meeting the following criteria:*

- The permit application is submitted on or after January 1, 2019, and
- The floor area for the addition (if any) exceeds 1,000 square feet, or
- The permit valuation for the alteration (if any) exceeds \$200,000.

The provisions of this checklist only apply to the portions of the building being added to or altered within the scope of the permitted work. The provisions of this checklist also apply to all tenant improvement projects meeting the criteria listed above. Newly constructed nonresidential building projects should use the City of Orland Nonresidential – 2019 CALGreen+Tier 1 Checklist. Repairs, trade permits, existing structures not being altered, and historic structures are not subject to the requirements of CALGreen.

*(This checklist is based on 2019 California Green Building Standard Code and has been revised to include City of Orland requirements. Tier 1 not adopted for Additions & Alterations)*

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

Project Name: \_\_\_\_\_ Permit Number: \_\_\_\_\_

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

### Instructions:

1. The Owner or the Owner's agent shall employ a certified CALGreen Inspector, listed by the City of Orland Building Department, to perform CALGreen inspection services and to verify and assure the Owner and the Building Department that all required work described herein is properly planned and implemented in the project.
2. The CALGreen Inspector shall not be the design professional or contractor for the project and shall not have a financial interest in the project for which services are being provided except for the cost of providing said services.
3. The CALGreen Inspector, in collaboration with the owner and the design professional shall initially complete **Column 2** of this checklist, sign and date the **CALGreen Building Acknowledgements** section at the end of this checklist and have the checklist printed on or attached to the approved plans for the project.
4. Unless verification by City is noted, prior to final inspection by the Building Department, the CALGreen Inspector shall complete **Column 3** and shall provide verification of completion prior to final inspection by City staff.

<u>Column 1</u> <b>Feature or Measure</b>	<u>Column 2</u> <b>Mandatory Project Requirements</b>	<u>Column 3</u> <b>Verification</b> <i>Complete after implementation and prior to final inspection approval</i> <b>Verification by a 3rd party CALGreen Inspector or by City staff as noted</b>
<u>NOTE</u> <i>Measures are only required for those portions of the building being added to or altered within the scope of the permitted work.</i>	<i>Select all applicable measures below</i>	
<b>Chapter 3, Section 301.3</b>		
<b>ADDITIONS AND ALTERATIONS TO EXISTING NONRESIDENTIAL BUILDINGS</b>		
<b>PLANNING &amp; DESIGN</b>		
<b>5.106.1 Storm water pollution prevention.</b> <sup>1</sup> <u>Additions</u> that disturb less than one acre of land shall prevent the pollution of stormwater runoff from construction activities in accordance with City Code.	<input type="checkbox"/>	<i>City Building Inspector</i>
<b>5.106.4 Bicycle parking.</b> Comply with Sections 5.106.4.1.1, 5.106.4.1.2, and 5.106.4.1.5  <b>5.106.4.1.1 Short-term bicycle parking.</b> If the project is anticipated to generate visitor traffic that add 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 capacity rack.  <b>5.106.4.1.2 Long-term bicycle parking.</b> For buildings with 10 or more tenant-occupants that add 10 or more vehicular parking spaces, provide secure bicycle parking for 5% of the additional motorized clean air vehicle parking capacity, with a minimum of one space. See 5.106.4.5 for bike parking facilities.	<input type="checkbox"/>  <input type="checkbox"/>	<i>CALGreen Inspector</i>
<b>5.106.5.2 Designated parking for clean air vehicles.</b> For projects 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 based on the number of additional spaces.  <b>5.106.5.2.1 Parking stall marking.</b> If applicable above, paint the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: "CLEAN AIR / VANPOOL / EV"	<input type="checkbox"/>  <input type="checkbox"/>	<i>CALGreen Inspector</i>
<b>5.106.10 Grading and Paving.</b> For projects altering the drainage path, 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:  1. Swales. 2. Water collection and disposal systems. 3. French drains 4. Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.	<input type="checkbox"/>	<i>City Plan Check Staff</i>



<u>Column 1</u> Feature or Measure	<u>Column 2</u> Mandatory Project Requirements	<u>Column 3</u> Verification
<b><u>NOTE</u></b> <i>Measures are only required for those portions of the building being added to or altered within the scope of the permitted work.</i>	<i>Select all applicable measures below</i>	<i>Complete after implementation and prior to final inspection approval</i> Verification by a 3rd party CALGreen Inspector or by City staff as noted
<b>5.303.4 Faucets and Fountains.</b> See Sections 5.303.3.4.1 through 5.303.3.4.5 for maximum allowable flow rates	<input type="checkbox"/>	<i>CALGreen Inspector</i> <input type="checkbox"/>
<b>5.303.4 Food Waste Disposer.</b> Not allowed (see Wastewater Discharge permit)	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.303.6 Plumbing fixtures and fittings.</b> Newly installed plumbing fixtures and fittings shall be installed in accordance with the CA Plumbing Code and shall meet the applicable standards referenced in Table 1701.1 of the CA Plumbing Code and Chapter 6 of this code.	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.304 Outdoor Water Use.</b>		<i>All outdoor water verification by City Water Efficient Landscape Ordinance staff</i>
<b>5.304.1 Scope.</b> The provisions of Section 5.304, Outdoor Water Use reference the local Water Efficiency Landscape Ordinance in accordance with City of Orland Municipal Code.	<input type="checkbox"/>	<input type="checkbox"/>
<b>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b>		
<b>5.407 Weather resistance and moisture management.</b>		<i>CALGreen Inspector</i>
<b>5.407.1 Weather protection.</b> When <u>adding or altering an exterior wall or foundation</u> , provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection) and California Energy Code Section 150 (Mandatory Features and Devices), manufacturer’s installation instructions, or local ordinance, whichever is more stringent.	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.407.2 Moisture control.</b> Employ moisture control measures by the following methods;		<i>CALGreen Inspector</i>
<b>5.407.2.1 Sprinklers.</b> Design and maintain landscape irrigation systems to prevent irrigation spray on structures.	<input type="checkbox"/>	<input type="checkbox"/>
<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. See Sections 5.407.2.2.1 and 5.407.2.2.2	<input type="checkbox"/>	<input type="checkbox"/>

<u>Column 1</u> Feature or Measure	<u>Column 2</u> Mandatory Project Requirements	<u>Column 3</u> Verification
<p><b>NOTE</b></p> <p><i>Measures are only required for those portions of the building being added to or altered within the scope of the permitted work.</i></p>	<p>Select all applicable measures below</p>	<p>Complete after implementation and prior to final inspection approval</p> <p>Verification by a 3rd party CALGreen Inspector or by City</p>
<p><b>5.408 Construction waste reduction, disposal and recycling.</b></p> <p><b>5.408.1 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, 5.408.1.2 <b>or</b> 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.</p> <p><b>5.408.1.1 Construction waste management plan.</b> Where a local jurisdiction does not have a construction or demolition waste management ordinance that is more stringent, submit a construction waste management plan that</p> <ol style="list-style-type: none"> <li>1. Identifies that 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>2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).</li> <li>3. Identifies diversion facilities where construction and demolition waste material collected will be taken.</li> <li>4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.</li> </ol> <p><b>5.408.1.2 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.</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, where demolition of an existing structure(s) is necessary for the new construction.</li> </ol> <p><b>5.408.1.4 Documentation.</b> Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.1.1, Items 1 through 4. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. <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 that meet the scoping provisions in Section 301.3 for nonresidential additions or alterations, shall require that Universal Waste Items such as fluorescent lamps and ballasts and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. <u>A list of prohibited Universal Waste materials shall be included in the construction documents.</u></p> <p>Note: Refer to Universal Waste Rule link at: <a href="http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/UWR_regs.cfm">http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/UWR_regs.cfm</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><i>CALGreen Inspector</i></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>

**2019 CalGreen Checklist**  
Non-Residential Additions and Altercations

<u>Column 1</u> Feature or Measure	<u>Column 2</u> Mandatory Project Requirements	<u>Column 3</u> Verification
<p><b>NOTE</b></p> <p><i>Measures are only required for those portions of the building being added to or altered within the scope of the permitted work.</i></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. For a phased project, such material may be stockpiled on site until the storage site is developed.</p> <p><b>Exception:</b> Reuse, either on- or off-site, of vegetation or soil contaminated by disease or pest infestation.</p>	<input type="checkbox"/>	<p><i>CALGreen Inspector</i></p> <p><input type="checkbox"/></p>
<p><b>5.410 Building maintenance and operation.</b></p> <p><b>5.410.1 Recycling by occupants.</b> Provide readily acceptable 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, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.</p> <p><b>5.410.1.1 Additions.</b> All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.</p> <p><b>Exception:</b> Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.</p> <p><b>5.410.1.2 Sample Ordinance.</b> 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><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><i>CALGreen Inspector</i></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>

<p align="center"><u><b>Column 1</b></u> <b>Feature or Measure</b></p> <p align="center"><u><b>NOTE</b></u> <i>Measures are only required for those portions of the building being added to or altered within the scope of the permitted work.</i></p>	<p align="center"><u><b>Column 2</b></u> <b>Mandatory Project Requirements</b></p> <p align="center"><i>Select all applicable measures below</i></p>	<p align="center"><u><b>Column 3</b></u> <b>Verification</b> <i>Complete after implementation and prior to final inspection approval</i> <b>Verification by a 3rd party CALGreen Inspector or by City staff as noted</b></p>
<p><b>5.410.4 Testing and adjusting.</b> Testing and adjusting of systems shall be required for buildings with new systems serving additions or alterations subject to section 303.1 (Phased Projects)</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:</p> <ol style="list-style-type: none"> <li>1. Renewable energy systems.</li> <li>2. Landscape irrigation systems.</li> <li>3. Water reuse systems.</li> </ol> <p><b>5.410.4.3 Procedures.</b> Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.</p> <p><b>5.410.4.3.1 HVAC 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 (O&amp;M) 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 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 align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><i>CALGreen Inspector</i></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 align="center"><input type="checkbox"/></p>
<p><b>ENVIRONMENTAL QUALITY</b></p>		<p align="center"><i>CALGreen Inspector to Verify all Environmental Quality measures</i></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 City of Orland Municipal Code.</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.504 Pollutant Control.</b></p> <p><b>5.504.1 Temporary ventilation.</b> <u>If the HVAC system serving the added or altered area(s) is used during construction</u>, 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 HVAC system serving the added or altered area(s) immediately prior to occupancy.</p>	<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

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<b>NOTE</b> <i>Measures are only required for those portions of the building being added to or altered within the scope of the permitted work.</i>		
<b>5.504.3 <u>Covering of duct openings and protection of mechanical equipment during construction.</u></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.	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.504.4 <u>Finish material pollutant control.</u></b> <u>Newly installed finish materials</u> shall comply with Sections 5.504.4.1 through 5.504.4.6.	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.504.4.1 <u>Adhesives, sealants, caulks.</u></b> <u>Newly installed adhesives, sealants and caulks</u> used on the project shall meet the requirements of the following standards.	<input type="checkbox"/>	<input type="checkbox"/>
<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>		
<b>5.504.4.3 <u>Paints and coatings.</u></b> <u>Newly installed architectural paints and coatings</u> shall comply with Table 5.504.4.3 in Division 5.5.	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.504.4.3.1 <u>Aerosol Paints and Coatings.</u></b> <u>Newly installed aerosol paints and coatings</u> 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) and BAAQMD Regulation 8 Rule 49.	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.504.4.3.2 <u>Verification.</u></b> Verification of compliance with this section shall be provided when requested by the enforcing agency. Documentation may include, but is not limited to, the following: <ol style="list-style-type: none"> <li>1. Manufacture’s product specification</li> <li>2. Field verification of on-site product containers</li> </ol>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.504.4.4 <u>Carpet systems.</u></b> All <u>newly installed carpet</u> in the building interior shall meet the testing and product requirements of one of the standards listed in Section 5.504.4.4.		
<b>5.504.4.4.1 <u>Carpet cushion.</u></b> All <u>newly installed carpet cushion</u> in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.504.4.4.2 <u>Carpet adhesive.</u></b> All <u>newly installed carpet adhesive</u> shall meet the requirements of Table 5.504.4.1.	<input type="checkbox"/>	<input type="checkbox"/>



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<p><b><u>NOTE</u></b> <i>Measures are only required for those portions of the building being added to or altered within the scope of the permitted work.</i></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 in Division 5.5.</p> <p><b>5.504.4.5.3 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:</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)</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>	<input type="checkbox"/>     <input type="checkbox"/>	<input type="checkbox"/>     <input type="checkbox"/>
<p><b>5.504.4.6 Resilient flooring systems.</b> For 80% of floor area receiving newly installed resilient flooring, installed resilient flooring complying with the VOC- emission limits defined in the 2014 CA- CHPS criteria and listed on its High Performance Products Database; products compliant with CHPS criteria certified under the Greenguard Children &amp; Schools program; certified under the FloorScore program of the Resilient Floor Covering Institute; or meet California Department of Public Health 2010 Standard Method.</p> <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>	<input type="checkbox"/>     <input type="checkbox"/>	<input type="checkbox"/>     <input type="checkbox"/>
<p><b>5.504.5.3 Filters.</b> In <u>mechanically ventilated spaces serving additions or altered areas</u> of 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>Exceptions: Existing Mechanical Equipment.</p> <p><b>5.504.5.3.1 Labeling.</b> Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.</p>	<input type="checkbox"/>     <input type="checkbox"/>	<input type="checkbox"/>     <input type="checkbox"/>
<p><b>5.504.7 Environmental tobacco smoke (ETS) control.</b> <u>Where outdoor areas are provided for smoking,</u> prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows <u>and within the building as already prohibited by other laws or regulations;</u> or as enforced by ordinances, regulations, or policies of any city or county, whichever are more stringent. See City of Orland Municipal Code.</p>	<input type="checkbox"/>	<input type="checkbox"/>

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<b>5.505 Indoor moisture control.</b>  <b>5.505.1 Indoor moisture control.</b> Additions or altered spaces within buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2.	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.506 Indoor air quality.</b>  <b>5.506.1 Outside air delivery.</b> <u>Where newly installed, mechanically or naturally ventilated spaces in additions or altered spaces within buildings, shall meet the minimum requirements of Section 120.1 of the California Energy Code and Chapter 4 of CCR, Title 8, or the applicable local code, whichever is more stringent.</u>  <b>5.506.2 Carbon dioxide (CO<sub>2</sub>) monitoring.</b> For <u>additions equipped with demand control ventilation</u> , CO <sub>2</sub> sensors and ventilation controls shall be specified and installed in accordance with the requirements of the 2016 California Energy Code, Section 120.1(c)4.	<input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/>  <input type="checkbox"/>
<b>5.507 Environmental comfort.</b>  <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. <b>(Support documentation required prior to permit issuance)</b>  <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 the locations described in Items 1 and 2.  <b>Noise exposure where noise contours are not 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).  or  <b>Exterior noise transmission, Performance Method.</b> For buildings located as defined in Sections 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 (L <sub>eq</sub> -1Hr) of 50 dBA in occupied areas during any hour of operation.  <b>Site features.</b> Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition, or alteration project to mitigate sound migration to the interior.  <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.	<i>Choose either Prescriptive or Performance method</i>  <input type="checkbox"/>  <input type="checkbox"/>  or  <input type="checkbox"/>  <input type="checkbox"/>	<i>Verify either Prescriptive or Performance method</i>  <input type="checkbox"/>  <input type="checkbox"/>  or  <input type="checkbox"/>  <input type="checkbox"/>

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<b>NOTE</b> <i>Measures are only required for those portions of the building being added to or altered within the scope of the permitted work.</i>		
<b>5.507.4.3 Interior sound transmission.</b> <u>Newly installed wall and floor-ceiling assemblies separating tenant spaces and public places shall have an STC of at least 40.</u>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.508 Outdoor air quality.</b> <b>5.508.1 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. <b>5.508.1.1 Chlorofluorocarbons (CFCs.).</b> Install HVAC, refrigeration and fire suppression equipment that does not contain CFCs. <b>5.508.1.2 Halons.</b> Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.	<input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/>  <input type="checkbox"/>
<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 sq. ft. 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. <b>Exception:</b> Refrigeration systems containing low-global warming potential (low GWP) refrigerant with a GWP value of 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.	<input type="checkbox"/>	<input type="checkbox"/>
<b>INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS</b>	<i>All checked items required for the project</i>	<i>Select all measures are verified in the completed project</i>
<b>QUALIFICATIONS</b>		
<b>702.1</b> HVAC system installers (if any) are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/>	<i>CALGreen Inspector</i> <input type="checkbox"/>
<b>702.2</b> The CALGreen Inspector for this project <u>is listed by the City of Orland as an approved CALGreen Inspector</u> and is qualified and able to demonstrate competence in the discipline they inspect and verify.	<input checked="" type="checkbox"/>	<i>City Plan Check Staff</i> <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.	<input checked="" type="checkbox"/>	<i>CALGreen Inspector</i> <input type="checkbox"/>

### CALGreen Building Acknowledgments

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

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

#### Section 1 - Design Verification

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

The owner, design professional and CALGreen Inspector have reviewed the plans and certify that the items checked above 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 Standards Code.

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

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

\_\_\_\_\_  
Design Professional's Signature Date

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

\_\_\_\_\_  
Signature of Listed CALGreen Inspector Date

\_\_\_\_\_  
Listed CALGreen Inspector's Name (Please Print) Phone

\_\_\_\_\_  
CALGreen Inspector's E-mail Address

#### Section 2 - Implementation Verification

Complete, sign and submit the completed checklist, including Column 3, together with all original signatures on Section 2 – "Implementation Verification" to the Building Department prior to final inspection.

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

\_\_\_\_\_  
Listed CALGreen Inspector Signature Date

\_\_\_\_\_  
CALGreen Inspector's Name (Please Print) Phone (if different than above)

\_\_\_\_\_  
CALGreen Inspector's E-mail Address (if different than above)