

# CITY OF ORLAND

## BUILDING DEPARTMENT

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

Applies to building permit applications received on or after January 1, 2020, for additions or alterations that increase the conditioned space of existing low rise residential buildings including hotels, motels, lodging houses, dwellings, dormitories, condominiums, shelters, congregate residences, employee housing, factory- built housing and other types of dwellings containing sleeping accommodations with or without common toilet or cooking facilities including accessory buildings, facilities and uses thereto. Detached “U” occupancy buildings are not subject to the requirements of CALGreen. Existing site and landscaping improvements that are not otherwise disturbed are also not subject to the requirements of CALGreen. Repairs to existing structures are not subject to CALGreen at this time.

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

Project Name: \_\_\_\_\_

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

### Instructions:

1. The Owner or the Owner’s agent shall employ a qualified CALGreen Inspector, listed by the City of Orland Building Department, to perform CALGreen Inspector services that apply 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, 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. The City’s plans examiner will complete **Column 3** of the checklist.
3. When determined necessary by City staff and indicated in **Column 2** of the checklist, the Owner or Contractor shall employ a CALGreen Inspector, certified by ICC, to perform CALGreen Inspector services.
4. In **Column 3**, Building Department staff will verify those measures checked in Column 3 of the checklist under the “City Staff” heading.
5. In **Column 4**, the CALGreen Inspector hired by the Owner will verify those measures checked in Column 2 of the checklist under the “CALGreen Inspector” heading.
6. Prior to final inspection by the Building Department, the CALGreen Inspector (if required) shall complete **Column 4** and sign and date the **Implementation Verification** section at the end of this checklist.

***NOTE:*** 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.

<u>Column 1</u> Feature or Measure	<u>Column 2</u> Project Requirements <i>Must be incorporated into the project unless the measure is not applicable (N/A).</i>	<u>Column 3</u> Verification To Be Provided By: <i>Completed by City plan review staff during plan review.</i>	<u>Column 4</u> Compliance Verified <i>Completed by CALGreen Inspector after measure has been completed.</i>
<b>4.1 PLANNING AND DESIGN</b>			
<b>Site Development</b>			
<b>4.106.2</b> A plan is developed and implemented to manage storm water drainage during construction.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.106.3</b> Construction plans shall indicate how site grading, or a drainage system will manage all surface water flows to keep water from entering buildings.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.2 ENERGY EFFICIENCY</b>			
<b>Performance Approach</b>			
<b>4.201.1</b> Building meets or exceeds the requirements of the 2019 California Building Energy Efficiency Standards. (Tier 1 not applicable)	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.3 WATER EFFICIENCY AND CONSERVATION</b>			
<b>Indoor Water Use</b>			
<b>4.303.1</b> Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			

<b>Column 1</b> <b>Feature or Measure</b>	<b>Column 2</b> <b>Project Requirements</b> <i>Must be incorporated into the project unless the measure is not applicable (N/A).</i>	<b>Column 3</b> <b>Verification To Be Provided By:</b> <i>Completed by City plan review staff during plan review.</i>	<b>Column 4</b> <b>Compliance Verified</b> <i>Completed by CALGreen Inspector after measure has been completed.</i>
<b>4.303.2</b> Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code and shall meet the applicable referenced standards.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>Outdoor Water Use</b>			
<b>4.304.1</b> Automatic irrigation systems installed at the time of final inspection shall be weather- or soil moisture- based.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.4</b> <b>MATERIAL CONSERVATION</b> <b>AND RESOURCE EFFICIENCY</b>			
<b>Enhanced Durability and Reduced Maintenance</b>			
<b>4.406.1</b> Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>Construction Waste Reduction, Disposal and Recycling</b>			
<b>4.408.1</b> Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste. (Per 4.408.2, 4.408.3 or 4.408.4)	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>Building Maintenance and Operation</b>			
<b>4.410.1</b> An operation and maintenance manual shall be provided to the building occupant or owner.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			

<b>Column 1</b> Feature or Measure	<b>Column 2</b> Project Requirements <i>Must be incorporated into the project unless the measure is not applicable (N/A).</i>	<b>Column 3</b> Verification To Be Provided By: <i>Completed by City plan review staff during plan review.</i>	<b>Column 4</b> Compliance Verified <i>Completed by CALGreen Inspector after measure has been completed.</i>
<b>4.5 ENVIRONMENTAL QUALITY</b>			
<b>Fireplaces</b>			
<b>4.503.1</b> Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>Pollutant Control</b>			
<b>4.504.1</b> Duct openings and other related air distribution component openings shall be covered during construction.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.504.2.1</b> Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.504.2.2</b> Paints, stains and other coatings shall be compliant with VOC limits.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.504.2.3</b> Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.504.2.4</b> Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			

<b>Column 1</b> Feature or Measure	<b>Column 2</b> Project Requirements <i>Must be incorporated into the project unless the measure is not applicable (N/A).</i>	<b>Column 3</b> Verification To Be Provided By: <i>Completed by City plan review staff during plan review.</i>	<b>Column 4</b> Compliance Verified <i>Completed by CALGreen Inspector after measure has been completed.</i>
<b>4.504.3</b> Carpet and carpet systems shall be compliant with VOC limits.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.504.4</b> 80 percent of floor area receiving resilient flooring shall comply with specified VOC criteria.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.504.5</b> Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>Interior Moisture Control</b>			
<b>4.505.2</b> Vapor retarder and capillary break is installed at slab on grade foundations.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>4.505.3</b> Moisture content of building materials used in wall and floor framing is checked before enclosure.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>Indoor Air Quality and Exhaust</b>			
<b>4.506.1</b> Humidity controlled exhaust fans which terminate outside the building are provided in every bathroom unless otherwise a component of a whole house ventilation system.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			

<u>Column 1</u> Feature or Measure	<u>Column 2</u> Project Requirements <i>Must be incorporated into the project unless the measure is not applicable (N/A).</i>	<u>Column 3</u> Verification To Be Provided By: <i>Completed by City plan review staff during plan review.</i>	<u>Column 4</u> Compliance Verified <i>Completed by CALGreen Inspector after measure has been completed.</i>
<b>Environmental Comfort</b>			
<b>4.507.2.</b> Duct systems are sized and designed, and equipment is selected using the following methods:  1. Establish heat loss and heat gain values according to ANSI/ACCA Manual J-2016 or equivalent.  2. Size duct systems according to ANSI/ACCA 1 Manual D-2016 or equivalent.  3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>Innovative Concepts and Local Environmental Conditions</b>			
Items necessary to address innovative concepts or local environmental conditions.			
Item 1:		<input type="checkbox"/>	<input type="checkbox"/>
<b>INSTALLER AND CALGreen INSPECTOR QUALIFICATIONS</b>			
<b>Qualifications</b>			
<b>702.1</b> HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A		<input type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>702.2</b> The CALGreen Inspector for this project is qualified and able to demonstrate competence in the discipline they inspect and verify.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>	
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			
<b>Verifications</b>			
<b>703.1</b> Verification of compliance with this code many include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
<i>Description of proposed measure(s) or explanation of why it is not applicable (N/A):</i>			

## Green 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 the 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 <i>(Please Print)</i>	
Design Professional's Signature	Date
Design Professional's Name <i>(Please Print)</i>	
Signature of CALGreen Building Inspector	Date
CALGreen Inspector's Name <i>(Please Print)</i>	Phone
CALGreen Inspector's E-mail Address	

### Section 2 - Implementation Verification

*Complete, sign and submit the completed checklist, including Column 4, together with all original signatures in this Section 2 – "Implementation Verification" to the Building Department prior to Building Department 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 Green Building Checklist and in accordance with the requirements set forth in the 2019 California Green Building Standards Code.

CALGreen Inspector Signature	Date
CALGreen Inspector's Name <i>(Please Print)</i>	Phone <i>(if different than above)</i>
CALGreen Inspector's E-mail Address <i>(if different than above)</i>	