



## 2013 City of Oakland CALGreen Checklist for RESIDENTIAL ADDITIONS and ALTERATIONS

<u>Scope:</u> The provisions of this checklist apply to <u>Additions to or Alterations</u> of existing residential buildings including hotels, motels, lodging houses, dwellings, dormitories, condominiums, one and two family building, multi-family buildings, shelters, congregate residences, employee housing, factory-built housing and other types of dwellings with sleeping accommodations where:

- 1. The addition or alteration to One and Two-Family building's conditioned area, volume, or size is <u>less</u> <u>than</u> 1,000 sq. ft.
- 2. The addition or alteration to a Multi-Family or other residential building types where scope of work increases the conditioned area, volume or size, or
- 3. Attached Secondary Units where scope of work increases volume or size.

The requirements shall apply only to and/or within the specific area of the addition or alteration. Detached "U" occupancy buildings and repairs (including fire repairs) to existing structures 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.

<u>PLEASE NOTE:</u> The City of Oakland has adopted local mandatory green building requirements (O.M.C. Chapter 18) in addition to the state CALGreen requirements which must be implemented for One and Two Family Buildings where the addition AND/OR alteration includes a scope of work ≥ 1,000 sq. ft.

If you project includes an addition and/or alteration to a One or Two-Family Building, you may not use this checklist. You must comply with the requirements below.

- a) Retain a GreenPoint Rater for Existing Homes,
- b) Complete the GreenPoint Rated Existing Single Family Home Checklist,
- c) Implement all CALGreen Residential Mandatory Measures,
- d) Attain 25 points on the GreenPoint Rated Checklist in the Elements Label and the minimum number of points in each category (8 points in Energy, 2 points in Indoor Air Quality, 2 points in Material Conservation and 4 points in Water Conservation),
- e) Submit to Build It Green upon completion of the project for a GreenPoint Rated certification.

Project Address:		
Project Name:		
Project Description:		
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## Column 1 Column 2 Column 3 Feature or Measure **Compliance Verified Project Requirements** MANDATORY MEASURES ADDITIONS OR ALTERATIONS Must be incorporated into the Completed by verifier after FOR RESIDENTIAL BUILDINGS project unless the measure is measure has been completed. See Chapter 4 of the 2013 California Green Building Code for complete not applicable (N/A). descriptions of features or measures listed here. **PLANNING AND DESIGN (4.1)** 4.106.2 Meet the requirements of the City of Oakland's Municipal Code or □ N/A Chapter 13.16.100C Stormwater Management Ordinance. Certain projects must also comply with NPDES C.3 Requirements. Please refer to the City of Oakland's Overview of Provision C.3 and the website of the Alameda Countywide Clean Water Program: http://www.cleanwaterprogram.org/ 4.106.3 Construction plans shall indicate how site grading or a drainage ☑ or ☐ N/A system will manage all surface water flows to keep water from entering buildings. **ENERGY EFFICEINCY (4.2)** 4.201.1 Building meets or exceeds the requirements of the California ☑ or ☐ N/A Building Energy Efficiency Standards. WATER EFFICIENCY AND CONSERVATION (4.3) 4.303.1 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. 4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be ☑ or ☐ N/A certified to the performance criteria of the U.S. EPA WATERSENSE specification for tank-type toilets. Note: the effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full 4.303.1.2 Urinals. The effective flush volume of urinals shall not exceed $\square$ or $\square$ N/A 0.5 gallons per flush. 4.303.1.3 Showerheads. Note: A hand-held shower shall be considered ☑ or ☐ N/A П a showerhead. **4.303.1.3.1 Single showerhead.** 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 Specification for Showerheads. 4.303.1.3.2 Multiple showerheads serving one shower. 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 shower shall be designed to allow only one shower outlet to be in operation at a 4.303.1.4 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.5 gpm at 60 psi. The ☑ or ☐ N/A minimum flow rate of residential lavatory faucets shall not be less than .8 gpm at 20 psi. 4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. ☑ or ☐ N/A П The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gpm at 60 psi.

<sup>&</sup>lt;sup>1</sup> Modified to conform with Chapter 13.16.100C of Oakland's Municipal Code.

Column 1 Feature or Measure MANDATORY MEASURES ADDITIONS OR ALTERATIONS FOR RESIDENTIAL BUILDINGS See Chapter 4 of the 2013 California Green Building Code for complete descriptions of features or measures listed here.	Column 2 Project Requirements  Must be incorporated into the project unless the measure is not applicable (N/A).	Column 3 Compliance Verified  Completed by verifier after measure has been completed.
4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.	⊠ or □ N/A	
4.303.1.4.4 Kitchen Faucets. The maximum flow rate of residential kitchen faucets shall not exceed 1.8 gpm at 60 psi.	⊠ or □ N/A	
<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.	⊠ or □ N/A	
<b>4.304.1</b> Automatic irrigation systems installed at the time of final inspection shall be weather- or soil moisture-based.	⊠ or □ N/A	
Material Conservation and Resource Efficiency (4.4)		
<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.	⊠ or □ N/A	
A4.408.1 Meet the requirements of Oakland's Municipal Code Chapter 15.34 Construction and Demolition Debris Waste Reduction and Recycling Requirements for residential additions or alterations that has a permit valuation greater than or equal to fifty thousand dollars (\$50,000.00) in year 2000 dollars.2	⊠ or □ N/A	
<b>4.410.1</b> An operation and maintenance manual shall be provided to the building occupant or owner.	⊠ or □ N/A	
Environmental Quality (4.5)		
<b>4.503.1 General (Fireplaces).</b> Meet the requirements of Oakland's Municipal Code Chapter 8.19 Wood-Burning Appliances.	⊠ or □ N/A	
<b>4.504.1</b> Duct openings and other related air distribution component openings shall be covered during construction.	⊠ or □ N/A	
<b>4.504.2.1</b> Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	⊠ or □ N/A	
<b>4.504.2.2</b> Paints, stains and other coatings shall be compliant with VOC limits.	⊠ or □ N/A	
4.504.2.3 Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds.	⊠ or □ N/A	
<b>4.504.2.4</b> Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	⊠ or □ N/A	
4.504.3 Carpet and carpet systems shall be compliant with VOC limits.	⊠ or □ N/A	
4.504.4 80% of the floor area receiving resilient flooring shall comply with VOC-emission limits defined in the CHPS High Performance Products Database or be certified under the Resilient Floor Covering Institute.	⊠ or □ N/A	

 $<sup>^2</sup>$  Modified to conform with Chapter 15.34 of Oakland's Municipal Code.  $^3$  Modified to conform with Chapter 8.19 of the Oakland Municipal Code.

<u>Column 1</u> Feature or Measure	<u>Column 2</u> Project Requirements	Column 3 Compliance Verified			
MANDATORY MEASURES ADDITIONS OR ALTERATIONS FOR RESIDENTIAL BUILDINGS See Chapter 4 of the 2013 California Green Building Code for complete descriptions of features or measures listed here.	Must be incorporated into the project unless the measure is not applicable (N/A).	Completed by verifier after measure has been completed.			
<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.	⊠ or □ N/A				
Interior Moisture Control					
<b>4.505.2</b> Vapor retarder and capillary break is installed at slab on grade foundations.	⊠ or □ N/A				
<b>4.505.3</b> Moisture content of building materials used in wall and floor framing is checked before enclosure.	⊠ or □ N/A				
<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.	⊠ or □ N/A				
<b>4.507.2.</b> Duct systems are sized and designed and equipment is selected using the following methods:	⊠ or □ N/A				
Establish heat loss and heat gain values according to ANSI/ACCA Manual J-2004 or equivalent.     Size duct systems according to ANSI/ACCA 1 Manual D - 2009 or equivalent.     Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2004 or equivalent.					
QUALIFICATIONS					
<b>702.1</b> HVAC system installers are trained and certified in the proper installation of HVAC systems.	⊠ or □ N/A				
VERIFICATIONS					
703.1 Verification of compliance with CALGreen 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.	⊠ or □ N/A				
Design Verification Complete the "Design Verification" and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to the Oakland Planning and Zoning Division or the Building Services Division as applicable.  The owner and design professional 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 2013 California Green Building Standards Code.					
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Owner's Signature	Da	ate			
Owner Name (Please Print)					

Design Professional's Signature	Date	
Design Professional's Name (Please Print)	<del></del>	