**2013 CALGreen**

**for**

**New Residential Buildings**

***Scope:*** *CALGreen applies to newly constructed 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.*

*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.*

Residential addition and alteration projects should use the Residential Addition and Alteration CALGreen checklist.

**Note: In addition to CALGreen, the City of Oakland has adopted additional mandatory requirements which must be implemented in the Project. The additional mandatory requirements include:**

1. **All new residential construction projects shall:**
2. **Retain a GreenPoint Rater for New Homes,**
3. **Complete either the GreenPoint Rated Single Family Checklist or the GreenPoint Rated Multi-Family Checklist,**
4. **Implement all CALGreen Residential Mandatory Measures,**
5. **Attain 50 points on the GreenPoint Rated Checklist and the minimum number of points in each category (30 points in Energy, 5 points in Indoor Air Quality, 6 points in Material Conservation, 3 points in Water Conservation, and 6 points in Community),**
6. **Submit to Build It Green upon completion of the project for a GreenPoint Rated certification.**

**However, all the CALGreen Residential Mandatory Measures are included as Pre-Requisites in the GreenPoint Rated Checklist. Therefore, the only project type that would require completion of the CALGreen Checklist is Detached Secondary Units.**

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| Project Name: |  |
| Project Address: |  |
| Project Description: |  |

| **Column 1**  **Feature or Measure**  **Mandatory Measures new residential BUILDINGS**  *See Chapter 4 and Appendix A4 of the 2013 California Green Building Code for complete descriptions of features or measures listed here.* | Column 2Project Requirements *When checked, these items become a part of the approved plans and must be installed or incorporated into the project*. | Column 3Verification *Complete after installation & prior to final inspection approval* |
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| **Planning and Design (4.1)** |  |  |
| **4.106.2** A plan is developed and implemented to manage storm water drainage during construction. See [Sonoma Municipal Code Chapter 13.32 (Stormwater Management and Discharge Control)](http://www.codepublishing.com/ca/Sonoma/index.pl) for additional requirements. |  |  |
| **4.106.3** Construction plans shall indicate how site grading or a drainage 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 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 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 flush.  **4.303.1.2 Urinals.** The effective flush volume of urinals shall not exceed 0.5 gallons per flush. |  |  |
| **4.303.1.3 Showerheads.** *Note: A hand-held shower shall be considered 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 time.  **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 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**. 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.  **4.303.1.4.3 Metering Faucets**. Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.  **4.303.1.4.4 Kitchen Faucets**. The maximum flow rate of residential kitchen faucets shall not exceed 1.8 gpm at 60 psi. |  |  |
| **4.303.2** 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. |  |  |
| **4.304.1** Automatic irrigation systems installed at the time of final inspection shall be weather-based. |  |  |
| **MATERIAL CONSERVATION AND RESOURCE EFFICIENCY (4.4)** |  |  |
| **4.406.1** 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. |  |  |
| **4.408.1 Construction Waste Reduction, Disposal and Recycling.** Meet the requirements of Oakland’s Municipal Code Chapter 15.34 Construction and Demolition Debris Waste Reduction and Recycling Requirements for residential construction.**[[1]](#footnote-1)** |  |  |
| **4.410.1** An operation and maintenance manual shall be provided to the building occupant or owner. |  |  |
| **ENVIRONMENTAL QUALITY (4.5)** |  |  |
| **4.503.1 General (Fireplaces).[[2]](#footnote-2)** Meet the requirements of Oakland’s Municipal Code Chapter 8.19 Wood-Burning Appliances. |  |  |
| **4.504.1** Duct openings and other related air distribution component openings shall be covered during construction. |  |  |
| **4.504.2.1** Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits. |  |  |
| **4.504.2.2** Paints, stains and other coatings shall be compliant with VOC limits. |  |  |
| **4.504.2.3** Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds. |  |  |
| **4.504.2.4** Documentation shall be provided to verify that compliant VOC limit finish materials have been used. |  |  |
| **4.504.3** Carpet and carpet systems shall be compliant with VOC limits. |  |  |
| **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. |  |  |
| **4.504.5** Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards. |  |  |
| **4.505.2** Vapor retarder and capillary break is installed at slab on grade foundations. |  |  |
| **4.505.3** Moisture content of building materials used in wall and floor framing is checked before enclosure. |  |  |
| **4.507.2.** 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-2004 or equivalent.  2. Size duct systems according to ANSI/ACCA 1 Manual D - 2009 or equivalent.  3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2004 or equivalent. |  |  |
| **QUALIFICATIONS** |  |  |
| **702.1** HVAC system installers are trained and certified in the proper installation of HVAC systems. |  |  |
| **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. |  |  |

**Design Verification**

*Complete “Design Verification” and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to the Building Department.*

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 |  | Date |
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| Owner Name *(Please Print)* |  |  |
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| Design Professional’s Signature |  | Date |
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| Design Professional’s Name *(Please Print)* |  |  |

1. Modified to conform with Chapter 15.34 of Oakland’s Municipal Code. [↑](#footnote-ref-1)
2. Modified to conform with Chapter 8.19 of the Oakland Municipal Code. [↑](#footnote-ref-2)