

MARIN COUNTY 2019 CALGREEN CHECKLIST

Tier 1 Standards for Residential Additions & Alterations

1,200 square feet or larger

This checklist is effective January 1, 2020 and applies to additions and alterations of 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, and accessory structures.

The provisions of this checklist apply only to the portions of the building being added to or altered within the scope of the permitted work when the cumulative square footage of the project is greater than or equal to 1,200 square feet. Existing site and landscaping improvements that are not otherwise disturbed are also not subject to the requirements of CALGreen.

Submit this checklist with your plans to demonstrate compliance with the green building ordinance. This checklist includes modifications specific to Marin County. For more information on the County's Green Building requirements, please visit www.marinegreenbuilding.org

For more information on CALGreen and complete measure language, see Chapters 4 and Appendix 4 here: <https://codes.iccsafe.org/content/CAGBSC2019/table-of-contents>

PROJECT DETAILS

Project Address

APN

Applicant Name (Please Print)

PROJECT VERIFICATION

The green building professional¹ has reviewed the plans and certifies that the mandatory and elective measures listed below 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 as amended by the County of Marin.

Signature

Date

Name & Title (Please Print)

¹ A qualified building professional can be an architect, engineer, contractor, or qualified green building professional, such as a CALGreen Special inspector.

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DIVISION 4.1 PLANNING AND DESIGN

Note: All measures are mandatory unless not in project scope (Select Completed or Not Applicable [N/A])

A minimum of TWO elective measures must be completed/selected.

4.106.2 (MANDATORY) A plan is developed and implemented to manage stormwater runoff from the construction activities through compliance with the County of Marin's stormwater management ordinance.

[Link: County of Marin's stormwater management ordinance](#)

Completed N/A *Plan sheet reference (if applicable):* _____

4.106.3 (MANDATORY) Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.

Completed N/A *Plan sheet reference (if applicable):* _____

A4.106.4.1 (MANDATORY) One- and two-family dwellings, and townhouses with attached private garages. If the project scope includes an upgrade of the electrical service panel, achieve Level 2 EV readiness including a raceway and dedicated 208/240-volt branch circuit, as required in the Marin County Building Code, Chapter 19.04, Subchapter 2.

[Link: Marin County Building Code, Chapter 19.04, Subchapter 2](#)

Completed N/A *Plan sheet reference (if applicable):* _____

A4.106.4.2 (MANDATORY) Multifamily dwellings and hotels/motels. If the project scope includes an upgrade of the electrical service panel or modification of the parking lot, comply with EV Readiness requirements outlined in the Marin County Building Code, Chapter 19.04, Subchapter 2.

[Link: Marin County Building Code, Chapter 19.04, Subchapter 2](#)

Completed N/A *Plan sheet reference (if applicable):* _____

A4.106.2.3 (MANDATORY) Displaced topsoil shall be stockpiled for reuse in a designated area and covered or protected from erosion.

Completed N/A *Plan sheet reference (if applicable):* _____

A4.106.4 (MANDATORY) Permeable paving is utilized for not less than 20 percent of the total parking, walking, or patio surfaces.

Completed N/A *Plan sheet reference (if applicable):* _____

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A4.106.5 (MANDATORY) Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum Solar Reflectance Index (SRI) equal to or greater than the values specified in Tables A4.106.5.1(3).

In Marin County, this measure applies only to high-rise residential buildings, hotels, and motels with a roof slope >2:12.

Completed N/A Plan sheet reference (if applicable): _____

A4.103.1 Site Selection (ELECTIVE) - Selection

Plan sheet reference (if applicable): _____

A4.103.2 Site Selection (ELECTIVE) - Community connectivity

Plan sheet reference (if applicable): _____

A4.104 Site Preservation (ELECTIVE) - Supervision and education

Plan sheet reference (if applicable): _____

A4.105.1 Deconstruction and Reuse of Existing Materials (ELECTIVE) - General

Plan sheet reference (if applicable): _____

A4.105.2 Deconstruction and Reuse of Existing Materials (ELECTIVE) - Reuse of materials

Plan sheet reference (if applicable): _____

A4.106.6 Site Development (ELECTIVE) - Vegetated roof

Plan sheet reference (if applicable): _____

A4.106.7 Site Development (ELECTIVE) - Reduction of heat island effect for nonroof areas

Plan sheet reference (if applicable): _____

A4.106.9 Site Development (ELECTIVE) - Bicycle parking

Plan sheet reference (if applicable): _____

A4.106.10 Site Development (ELECTIVE) - Light pollution reduction

Plan sheet reference (if applicable): _____

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A4.306.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)

Plan sheet reference (if applicable): _____

DIVISION 4.2 ENERGY EFFICIENCY

Note: All measures are mandatory unless not in project scope (Select Completed or Not Applicable [N/A])

4.201.1 Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.

Completed N/A Plan sheet reference (if applicable): _____

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

Note: All measures are mandatory unless not in project scope (Select Completed or Not Applicable [N/A])

A minimum of TWO elective measures must be completed/selected.

4.303.1 (MANDATORY) 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.

Completed N/A Plan sheet reference (if applicable): _____

4.303.1.4.3 (MANDATORY) Metering faucets in residential buildings shall not deliver more than 0.2 gallons per cycle.

Completed N/A Plan sheet reference (if applicable): _____

4.303.2 (MANDATORY) 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.

Completed N/A Plan sheet reference (if applicable): _____

4.304.1 (MANDATORY) Residential developments shall comply with local water efficient landscape ordinance or the current California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELo), whichever is more stringent.

Completed N/A Plan sheet reference (if applicable): _____

A4.303.2 Indoor Water Use (ELECTIVE) - Alternate water sources for nonpotable applications

Plan sheet reference (if applicable): _____

A4.303.3 Indoor Water Use (ELECTIVE) – Appliances

Plan sheet reference (if applicable): _____

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A4.303.4 Indoor Water Use (ELECTIVE) - Nonwater urinals and waterless toilets

Plan sheet reference (if applicable): _____

A4.303.5 Indoor Water Use (ELECTIVE) - Hot water recirculation systems

Plan sheet reference (if applicable): _____

A4.304.1 Outdoor Water Use (ELECTIVE) - Rainwater catchment systems

Plan sheet reference (if applicable): _____

A4.304.2 Outdoor Water Use (ELECTIVE) - Potable water elimination

Plan sheet reference (if applicable): _____

A4.304.3 Outdoor Water Use (ELECTIVE) - Landscape water meters

Plan sheet reference (if applicable): _____

A4.305.1 Water Reuse Systems (ELECTIVE) – Graywater

Plan sheet reference (if applicable): _____

A4.305.2 Water Reuse Systems (ELECTIVE) - Recycled water piping

Plan sheet reference (if applicable): _____

A4.305.3 Water Reuse Systems (ELECTIVE) - Recycled water for landscape irrigation

Plan sheet reference (if applicable): _____

A4.306.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)

Plan sheet reference (if applicable): _____

DIVISION 4.4 MATERIAL CONSERVATION & RESOURCE EFFICIENCY

Note: All measures are mandatory unless not in project scope (Select Completed or Not Applicable [N/A])

A minimum of TWO elective measures must be completed/selected.

A4.403.2 (MANDATORY) Cement use in foundation mix design is reduced as directed by Marin County Ordinance 3717.

[Link: Marin County Ordinance 3717](#)

Completed N/A *Plan sheet reference (if applicable):* _____

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A4.405.3 (MANDATORY) Postconsumer or preconsumer recycled content value (RCV) materials are used on the project, not less than a 10 percent recycled content value.

Completed N/A *Plan sheet reference (if applicable):* _____

4.406.1 (MANDATORY) 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.

Completed N/A *Plan sheet reference (if applicable):* _____

4.408.1 (MANDATORY) Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with the reporting standards outlined by Zero Waste Marin.

[Link: Zero Waste Marin](#)

Completed N/A *Plan sheet reference (if applicable):* _____

A4.408.1 (MANDATORY) Construction waste generated at the site is diverted to recycle or salvage in compliance with at least a 65 percent reduction. Any mixed recyclables that are sent to mixed-waste recycling facilities shall include a qualified third party verified facility average diversion rate. Verification of diversion rates shall meet minimum certification eligibility guidelines, acceptable to the local enforcing agency.

Completed N/A *Plan sheet reference (if applicable):* _____

4.410.1 (MANDATORY) An operation and maintenance manual shall be provided to the building occupant or owner.

Completed N/A *Plan sheet reference (if applicable):* _____

4.410.2 (MANDATORY) Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve all buildings on the site and is 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.

Completed N/A *Plan sheet reference (if applicable):* _____

A4.403.1 Foundation Systems (ELECTIVE) - Frost protected foundation systems

Plan sheet reference (if applicable): _____

A4.404.1 Efficient Framing Techniques (ELECTIVE) - Lumber size

Plan sheet reference (if applicable): _____

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A4.404.2 Efficient Framing Techniques (ELECTIVE) - Dimensions and layouts

Plan sheet reference (if applicable): _____

A4.404.3 Efficient Framing Techniques (ELECTIVE) - Building systems

Plan sheet reference (if applicable): _____

A4.404.4 Efficient Framing Techniques (ELECTIVE) - Pre-cut materials and details

Plan sheet reference (if applicable): _____

A4.405.1 Material Sources (ELECTIVE) - Prefinished building materials

Plan sheet reference (if applicable): _____

A4.405.2 Material Sources (ELECTIVE) - Concrete floors

Plan sheet reference (if applicable): _____

A4.405.4 Material Sources (ELECTIVE) - Use of building materials from rapidly renewable sources

Plan sheet reference (if applicable): _____

A4.407.1 Water Resistance and Moisture Management (ELECTIVE) - Drainage around foundations

Plan sheet reference (if applicable): _____

A4.407.2 Water Resistance and Moisture Management (ELECTIVE) -Roof drainage

Plan sheet reference (if applicable): _____

A4.407.3 Water Resistance and Moisture Management (ELECTIVE) - Flashing details

Plan sheet reference (if applicable): _____

A4.407.4 Water Resistance and Moisture Management (ELECTIVE) - Material protection

Plan sheet reference (if applicable): _____

A4.407.6 Water Resistance and Moisture Management (ELECTIVE) - Door protection

Plan sheet reference (if applicable): _____

A4.407.7 Water Resistance and Moisture Management (ELECTIVE) - Roof overhangs

Plan sheet reference (if applicable): _____

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A4.411.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)

Plan sheet reference (if applicable): _____

DIVISION 4.5 ENVIRONMENTAL QUALITY

Note: All measures are mandatory unless not in project scope (Select Completed or Not Applicable [N/A])

A minimum of ONE elective measure must be completed/selected.

4.503.1 (MANDATORY) Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with the U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances including the County of Marin Municipal Code (Wood-Burning Devices).

[Link: County of Marin Municipal Code \(Wood-Burning Devices\)](#)

Completed N/A Plan sheet reference (if applicable): _____

4.504.1 (MANDATORY) Duct openings and other related air distribution component openings shall be covered during construction.

Completed N/A Plan sheet reference (if applicable): _____

4.504.2.1 (MANDATORY) Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.

Completed N/A Plan sheet reference (if applicable): _____

4.504.2.2 (MANDATORY) Paints, stains and other coatings shall be compliant with VOC limits.

Completed N/A Plan sheet reference (if applicable): _____

4.504.2.3 (MANDATORY) Aerosol paints and coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds.

Completed N/A Plan sheet reference (if applicable): _____

4.504.2.4 (MANDATORY) Documentation shall be provided to verify that compliant VOC limit finish materials have been used.

Completed N/A Plan sheet reference (if applicable): _____

4.504.3 (MANDATORY) Carpet and carpet systems shall be compliant with VOC limits.

Completed N/A Plan sheet reference (if applicable): _____

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4.504.4 (MANDATORY) 80 percent of floor area receiving resilient flooring shall comply with specified VOC criteria.

Completed N/A *Plan sheet reference (if applicable):* _____

4.504.5 (MANDATORY) Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.

Completed N/A *Plan sheet reference (if applicable):* _____

A4.504.2 (MANDATORY) Install VOC compliant resilient flooring systems. Ninety (90) percent of floor area receiving resilient flooring shall comply with the VOC-emission limits established in section A4.504.2.

Completed N/A *Plan sheet reference (if applicable):* _____

A4.504.3 (MANDATORY) Thermal insulation installed in the building shall install thermal insulation in compliance with VOC limits

Completed N/A *Plan sheet reference (if applicable):* _____

4.505.2 (MANDATORY) Vapor retarder and capillary break is installed at slab on grade foundations.

Completed N/A *Plan sheet reference (if applicable):* _____

4.505.3 (MANDATORY) Moisture content of building materials used in wall and floor framing is checked before enclosure.

Completed N/A *Plan sheet reference (if applicable):* _____

4.506.1 (MANDATORY) Each bathroom shall be provided with the following:

1. ENERGY STAR fans ducted to terminate outside the building.
2. Fans must be controlled by a humidity control (Separate or built-in); OR functioning as a component of a whole-house ventilation system.
3. Humidity controls with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of ≤ 50 percent to a maximum of 80 percent.

Completed N/A *Plan sheet reference (if applicable):* _____

4.507.2 (MANDATORY) Duct systems are sized, designed, and equipment is selected using the following methods:

1. Establish heat loss and heat gain values according to ANSI/ACCA 2 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.

Completed N/A *Plan sheet reference (if applicable):* _____

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A5.5041. Pollutant Control (ELECTIVE) - Compliance with formaldehyde limits

Plan sheet reference (if applicable): _____

A5.506.2 Indoor Air Quality and Exhaust (ELECTIVE) - Construction filter

Plan sheet reference (if applicable): _____

A5.506.3 Indoor Air Quality and Exhaust (ELECTIVE) - Direct-vent appliances

Plan sheet reference (if applicable): _____

A5.509.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)

Plan sheet reference (if applicable): _____