



Community Development Department  
**Building & Safety Division**

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## 2019 CalGreen Residential Mandatory Measures Checklist Additions and Alterations

Following is a standardized checklist of CalGreen Mandatory Measures requirements that may be used for additions and alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume or size. Check all measures that apply to your project in the "Required" column and place a check mark in the "N/A" for all measures that do not apply to your project. This form is part of your approved plans and must be made available to the Building Inspector at time of inspection. The checklist requirements shall apply only to and/or within the specific area of the addition or alteration. (2019 CGBSC 301.1.1)

**Job Address:** \_\_\_\_\_

**Permit No.:** \_\_\_\_\_

Feature or Measure	Required	N/A
<b>SITE DEVELOPMENT</b>		
Dublin Municipal Code 7.74 Storm Water Management and Discharge Control. The site shall be the minimum requirements for drainage per the city municipal code.		
Grading and Paving. Construction plans shall indicate how site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples found at CGBSC 4.106.3. Alterations and additions, not altering the drainage path are excluded.		
Electric Vehicle Charging for New Construction. For one and two family dwellings, install electric vehicle charging wiring and panels per the requirements of CGBSC 4.106.4.		
<b>Division 4.3 - WATER EFFICIENCY AND CONSERVATION (INDOOR WATER USE)</b>		
4.303.1 Plumbing fixtures (water closets and urinals) and fittings (faucets and shower heads) shall comply with the maximum flow rates: 1. Water closets: ≤ 1.28 gal/flush 2. Single showerheads: ≤ 1.8 gpm at 80 psi 3. Multiple showerheads: combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gpm at 80 psi, or only one shower outlet is to be in operation at a time 4. Residential lavatory faucets: maximum flow rate ≤ 1.2 gpm @ 60 psi; minimum flow rate ≥ 0.8 gpm @ 20 psi 5. Metering faucets: ≤ 0.25 gal/cycle 6. Kitchen faucets: ≤ 1.8 gpm @ 60 psi; temporary increase to 2.2 gpm allowed but shall default to 1.8 gpm (note: where compliant faucets are unavailable, aerators may be used)		
4.303.2 Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet applicable standards referenced in Table 1701.1 of the California Plumbing Code.		
4.304.1 Outdoor water use in landscape areas 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.		
<b>Division 4.4 - MATERIAL CONSERVATION &amp; RESOURCE EFFICIENCY (ENHANCED DURABILITY &amp; REDUCED MAINTENANCE)</b>		
4.406.1 Rodent Proofing. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be closed with cement mortar, concrete masonry or a similar method acceptable to the city to prevent passage of rodents.		
<b>Division 4.4 – CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING</b>		
Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the non-		

hazardous construction and demolition waste per CGBSC 4.408.1		
<b>Division 4.4 - BUILDING MAINTENANCE AND OPERATION (BUILDING MAINTENANCE &amp; OPERATION)</b>		
4.410.1 At time of final inspection, provide a maintenance manual or other acceptable media which includes and describes 10 points concerning the use and operation of all systems used within the dwelling (e.g., HVAC systems, controllers, etc.).		
<b>Division 4.5 - ENVIRONMENTAL QUALITY (FIREPLACES)</b>		
4.503.1 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. See Dublin Municipal Code Section 7.34.210 for local ordinance.		
<b>Feature or Measure</b>	<b>Required</b>	<b>N/A</b>
<b>Division 4.5 – ENVIRONMENTAL QUALITY (POLLUTANT CONTROL)</b>		
4.504.1 At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air intake and distribution component openings shall be covered. Tape, plastic, sheet metal or other methods acceptable to the City to reduce the amount of water, dust and debris entering the system.		
4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.		
4.504.2.2 Paints and other coatings shall be compliant with VOC limits.		
4.504.2.3 Aerosol paints and 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. Documentation may include, but is not limited to the following: 1. Manufacturer's product specification. 2. Field verification of on-site product containers.		
4.504.3 Carpet and carpet systems (cushions) shall be compliant with VOC limits.		
4.504.4 Install VOC compliant resilient flooring systems. At least 80% of the resilient flooring installed shall comply.		
4.504.5 Hardwood plywood, particleboard and medium density fiberboard (MDF) used on the interior and exterior of the building shall comply with low formaldehyde emission standards.		
4.504.5.1 Verification of compliance with this section shall be provided.		
<b>Division 4.5 – ENVIRONMENTAL QUALITY (INTERIOR MOISTURE CONTROL)</b>		
<b>Concrete slab foundations</b>		
4.505.2 Concrete slab foundations or concrete slab-on-ground floors required to have a vapor retarder by the California Building Code or the California Residential Code shall also comply with this section. Building materials with visible signs of water damage shall not be installed.		
4.505.3 Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing exceeds 19% moisture content.		
<b>4.5 - ENVIRONMENTAL QUALITY (INDOOR AIR QUALITY &amp; EXHAUST)</b>		
<b>Bathroom exhaust fans</b>		
4.506.1 Each bathroom shall be mechanically ventilated and shall comply with the following: 1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control. a) Humidity controls shall be capable of manual or automatic adjustment between a relative humidity range of less than 50% to a maximum of 80%. b) A humidity control may be a separate component to the exhaust fan and is not required to be integral or built-in.  Note: For CALGreen a "bathroom" is a room which contains a bathtub, shower, or tub/shower combination. Fans or mechanical ventilation is required in each bathroom.		
<b>Heating and air conditioning system design</b>		
4.507.2 Heating and air-conditioning systems shall be sized, designed, and have their equipment selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J- 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2. Size duct systems according to ANSI/ACCA 1 Manual D – 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection) or other equivalent design software or methods.		

**Chapter 7 – INSTALLER & SPECIAL INSPECTOR QUALIFICATION (QUALIFICATIONS, VERIFICATIONS)**

**702.1** HVAC system installers shall be trained and certified in the proper installation of HVAC systems.

**702.2** Special inspectors employed by the owner or owner's agent shall demonstrate competence for the particular type of inspection to be performed and shall have a certification or education in the area closely related to the primary job function that is acceptable to the enforcing agency.

**703** Verification of compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the city which demonstrate substantial conformance.

Responsible Design Professional Declaration Statement	Contractor Declaration Statement
I hereby certify that this project has been designed to meet the requirements of the 2019 California Green Building Standards Code.	I hereby certify, as the builder or installer under the permit listed herein, that this project will be constructed to meet the requirements of the 2019 California Green Building Standards Code.
Name:	Name:
Signature:	Signature:
Date:	Date:
Company:	License No.:
Address:	Address: