



2019 CALGreen

RESIDENTIAL MANDATORY MEASURES CHECKLIST

(Effective Jan 1, 2020)

SECTION	MEASURES	REQUIREMENTS	Measures provided on plan sheet ¹ :																
ADMINISTRATION																			
101.3.1	Application	Applies to all newly constructed residential buildings: low rise, high rise, and hotels/motels.																	
GREEN BUILDING (Scope)																			
301.1.1	Additions and Alterations	<ul style="list-style-type: none"> ▪ Applies to additions or alterations of residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. ▪ Requirements only apply within the specific area of the addition or alteration. 																	
PLANNING AND DESIGN (Site Development)																			
4.106.2	Storm Water Drainage and Retention During Construction	A plan is developed and implemented to manage storm water drainage during construction.																	
4.106.3	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.																	
4.106.4	Electric Vehicle (EV) Charging for <u>New Construction</u>	Provide capability for electric vehicle charging in one- and two-family dwellings; townhouses with attached private garages; multifamily dwellings, and hotels/motels in accordance with Sections 4.106.4.1, 4.106.4.2, and 4.106.4.3, as applicable.																	
ENERGY EFFICIENCY																			
4.201.1	General	Building meets or exceeds the requirements of the 2019 California Building Energy Efficiency Standards.																	
WATER EFFICIENCY AND CONSERVATION (Indoor Water Use)																			
4.303.1	Water Conserving Plumbing Fixtures and Fittings	Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with requirements of Sections 4.303.1.1 through 4.303.1.4.4:																	
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Plumbing fixtures & fittings</th> <th style="width: 50%;">Maximum flow rate</th> </tr> </thead> <tbody> <tr> <td>Water closets</td> <td>1.28 gallons/flush</td> </tr> <tr> <td>Showerheads</td> <td>1.8 gpm @ 80 psi</td> </tr> <tr> <td>Kitchen faucets</td> <td>1.8 gpm @ 60 psi</td> </tr> <tr> <td>Residential lavatory faucets</td> <td>1.2 gpm @ 60 psi max. and 0.8 gpm @ 20 psi min.</td> </tr> <tr> <td>Lavatory faucets in common & public use areas</td> <td>0.5 gpm @ 60 psi</td> </tr> <tr> <td>Metering faucets</td> <td>0.20 gallons/cycle</td> </tr> <tr> <td>Urinals</td> <td>0.125 gallons/flush for wall-mounted type and 0.5 gallons/flush for floor-mounted type or other type</td> </tr> </tbody> </table>	Plumbing fixtures & fittings	Maximum flow rate	Water closets	1.28 gallons/flush	Showerheads	1.8 gpm @ 80 psi	Kitchen faucets	1.8 gpm @ 60 psi	Residential lavatory faucets	1.2 gpm @ 60 psi max. and 0.8 gpm @ 20 psi min.	Lavatory faucets in common & public use areas	0.5 gpm @ 60 psi	Metering faucets	0.20 gallons/cycle	Urinals	0.125 gallons/flush for wall-mounted type and 0.5 gallons/flush for floor-mounted type or other type	
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4.303.2	Standards for Plumbing Fixtures and Fittings	Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the 2019 California Plumbing Code, and shall meet the applicable referenced standards.																	
WATER EFFICIENCY AND CONSERVATION (Outdoor Water Use)																			
4.304.1	Outdoor potable water use in landscape areas	Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever more stringent.																	
MATERIAL CONSERVATION & RESOURCE EFFICIENCY (Enhanced Durability & Reduced Maintenance)																			
4.406.1	Rodent proofing	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 a similar method acceptable to the enforcing agency.																	
MATERIAL CONSERVATION & RESOURCE EFFICIENCY (Construction Waste Reduction, Disposal & Recycling)																			
4.408.1	Construction Waste Management	Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with one of the following: <ol style="list-style-type: none"> 1. Comply with a more stringent local construction and demolition waste management ordinance; or 2. A construction waste management plan, per Section 4.408.2; or 3. A waste management company, per Section 4.408.3; or 4. The waste stream reduction alternative, per Section 4.408.4. 																	
MATERIAL CONSERVATION & RESOURCE EFFICIENCY (Building Maintenance & Operation)																			
4.410.1	Operation and Maintenance Manual	An operation and maintenance manual shall be provided to the building occupant or owner.																	

RESIDENTIAL MANDATORY MEASURES, effective Jan 1, 2020 (continued)

SECTION	MEASURES	REQUIREMENTS	Measures provided on plan sheet ¹ :
4.410.2	Recycling by Occupants	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. See exception for rural jurisdictions.	
ENVIRONMENTAL QUALITY (Fireplaces)			
4.503.1	General	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 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 all applicable local ordinances.	
ENVIRONMENTAL QUALITY (Pollutant Control)			
4.504.1	Covering of Duct Openings & Protection of Mech. Equipment During Construction	Duct openings and other related air distribution component openings shall be covered during construction.	
4.504.2.1	Adhesives, Sealants and Caulks	Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	
4.504.2.2	Paints and Coatings	Paints, stains and other coatings shall be compliant with VOC limits.	
4.504.2.3	Aerosol Paints and Coatings	Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds.	
4.504.2.4	Verification	Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	
4.504.3	Carpet Systems	Carpet and carpet systems shall be compliant with VOC limits.	
4.504.4	Resilient Flooring Systems	80 percent of floor area receiving resilient flooring shall comply with specified VOC criteria.	
4.504.5	Composite Wood Products	Particleboard, medium density fiberboard (MDF) and hardwood plywood used in the interior finish systems shall comply with low formaldehyde emission standards.	
ENVIRONMENTAL QUALITY (Interior Moisture Control)			
4.505.2	Concrete Slab Foundations	Vapor retarder and capillary break is installed at slab-on-grade foundations.	
4.505.3	Moisture Content of Building Materials	Moisture content of building materials used in wall and floor framing is checked before enclosure.	
ENVIRONMENTAL QUALITY (Indoor Air Quality & Exhaust)			
4.506.1	Bathroom Exhaust Fans	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 shall with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of less than 50% to a maximum of 80%. Note: For the purposes of this section a bathroom is a room which contains a bathtub, shower, or tub/shower combination. Fans are required in each bathroom.	
ENVIRONMENTAL QUALITY (Environmental Comfort)			
4.507.2	Heating and Air Conditioning System Design	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 (Residential Load Calculation), or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D- 2016 (Residential Duct Systems), or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 (Residential Equipment Selection) or equivalent.	
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS (Qualifications, Verifications)			
702.1	Installer Training	HVAC system installers are trained and certified in the proper installation of HVAC systems.	
702.2	Special Inspection	Special inspectors must be qualified and able to demonstrate competence to the enforcing agency in the discipline in which they are inspecting.	
703.1	Documentation	Verification of compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance.	

Footnotes:

¹ Indicate N/A if not applicable.

Note: This check list is intended only as an aid to the user and may not contain complete code language. Refer to 2019 CALGreen Chapter 4 for complete code language.