



THE FOLLOWING NOTES SHALL BE REPRODUCED ON THE SITE PLAN OR COVER SHEET CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) – INCORPORATE THESE MANDATORY ITEMS IN THE DESIGN AND CONSTRUCTION OF THE PROJECT AND ADD NOTES TO PLANS AS APPLICABLE. OF THE SUBMITTED DRAWINGS:

## 2022 CalGREEN Residential Mandatory Measure Notes

SECTION	MEASURE	REQUIREMENTS	
<b>PLANNING AND DESIGN</b>			
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 a drainage system will manage all surface water flows to keep water from entering buildings.	
4.106.4.1	Electric Vehicle Charging	Provide capability for electric vehicle charging for one and two-family dwellings; townhouses with attached private garages in accordance with Section 4.106.4.1.	
4.106.4.2	Electric Vehicle Charging	Provide capability for electric vehicle charging for multifamily dwellings and hotels/motels in accordance with Sections 4.106.4.2.1 or 4.106.4.2.2, as applicable.	
4.106.4.3	Electric Vehicle Charging	Provide capability for electric vehicle charging for existing parking lots or new parking lots for existing residential buildings in accordance with Section 4.106.4.3, as applicable.	
<b>ENERGY EFFICIENCY</b>			
4.201.1	General	Building meets or exceeds the requirements of the <i>California Building Energy Efficiency Standards</i> .	
<b>WATER EFFICIENCY AND CONSERVATION (Indoor Water Use)</b>			
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 the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4:	
		<b>Plumbing fixtures &amp; fittings</b>	<b>Maximum</b>
		Water closets	1.28 gallons/flush
		Urinals	0.125 gallons/flush for wall-mounted type and 0.5 gallons/flush for floor-mounted type or other type
		Showerheads	1.8 gpm @ 80 psi
		Residential lavatory faucets	1.2 gpm @ 60 psi max. 0.8 gpm @ 20 psi min.
		Lavatory faucets in common & public use areas	0.5 gpm @ 60 psi
		Metering faucets	0.2 gallons/cycle
4.303.3	Standards for Plumbing Fixtures and Fittings	Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the <i>California Plumbing Code</i> , and shall meet the applicable referenced standards.	
4.303.1.4.3	Metering faucets	Metering faucets in residential building shall not deliver more than 0.2 gallons per cycle	
<b>WATER EFFICIENCY AND CONSERVATION (Outdoor Water Use)</b>			
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 is more stringent. 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including a water budget calculator, are available at: <a href="https://www.water.ca.gov/">https://www.water.ca.gov/</a>	
<b>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 protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.	
<b>MATERIAL CONSERVATION &amp; RESOURCE EFFICIENCY (Construction Waste Reduction, Disposal &amp; Recycling)</b>			
4.408.1	Construction Waste Management	Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with one of the following: 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.	
<b>MATERIAL CONSERVATION &amp; RESOURCE EFFICIENCY (Building Maintenance &amp; Operation)</b>			
4.410.1	Operation and Maintenance Manual	An operation and maintenance manual shall be provided to the building occupant or owner.	
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 are 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. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82(a)(2)(A) et seq. will also be exempt from the organic waste portion of this section.	

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SECTION	MEASURE	REQUIREMENTS
<b>ENVIRONMENTAL QUALITY (Fireplaces)</b>		
4.503.1	Fireplaces	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.
<b>ENVIRONMENTAL QUALITY (Pollutant Control)</b>		
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.
<b>ENVIRONMENTAL QUALITY (Interior Moisture Control)</b>		
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.
<b>ENVIRONMENTAL QUALITY (Indoor Air Quality &amp; Exhaust)</b>		
4.506.1	Bathroom Exhaust Fans	Each bathroom shall be mechanically ventilated and shall comply with the following: <ol style="list-style-type: none"> <li>1. ENERGY STAR fans ducted to terminate outside the building.</li> <li>2. Fans must be controlled by a humidity control (separate or built-in); OR functioning as a component of a whole-house ventilation system.</li> <li>3. Humidity controls with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of <math>\leq 50</math> percent to a maximum of 80 percent.</li> </ol>
<b>ENVIRONMENTAL QUALITY (Environmental Comfort)</b>		
4.507.2	Heating and Air Conditioning System Design	Duct systems are sized, designed, and equipment is selected using the following methods: <ol style="list-style-type: none"> <li>1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2016 or equivalent.</li> <li>2. Size duct systems according to ANSI/ACCA 1 Manual D- 2016 or equivalent.</li> <li>3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent.</li> </ol>
<b>INSTALLER &amp; SPECIAL INSPECTOR QUALIFICATIONS (Qualifications, Verifications)</b>		
702.1	Installer Training	HVAC system installers are trained and certified in the proper installation of HVAC systems.
702.2	Special Inspection	Special inspectors employed by the enforcing agency must be qualified and able to demonstrate competence in the discipline 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.

Note:  
This check list is intended only as an aid to the user and may not contain complete code language. Refer to 2022 CALGreen Chapter 4 for complete code language.