



# City of Santa Clara

The Center of What's Possible

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## 2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CGC) RESIDENTIAL CHECKLIST

**New residential buildings shall be designed to include the green building mandatory measures specified in this checklist. This checklist shall also be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to the specific area of the addition or alteration.**

BUILDING PERMIT NO.: BLD2  
ADDRESS: \_\_\_\_\_

MANDATORY  
MEASURES  
SPECIFIED  
(Please check  
boxes below)

Feature or Measure	Yes
<b>SITE DEVELOPMENT (CGC 4.106)</b>	
<b>Storm water drainage and retention during construction.</b> A plan shall be developed and shall be implemented to manage storm water drainage during construction per CGC 4.106.2.	<input type="checkbox"/>
<b>Grading and paving.</b> Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings per CGC 4.106.3.	<input type="checkbox"/>
<b>Electric vehicle (EV) charging for new one- and two- family dwellings and town-houses with attached private garages and/or parking spaces not assigned to a dwelling unit, and ADU/JADU without additional parking but with electrical panel upgrades or new panels.</b> Provide capability for electric vehicle charging with minimum required Level 1 EV Ready, Level 2 EV Ready, Low Power Level 2 EV Ready as specified in CGC 4.106.4.1 as amended by <a href="#">City of Santa Clara Reach Code Ordinance No.2056 (CSC 2023 Reach Code)</a> section 15.38.040. <b>Identification:</b> The raceway termination location shall be permanently and visibly marked as "Level 2 EV-READY" per CGC 4.106.4.1.1 as amended by <a href="#">CSC 2023 Reach Code</a> section 15.38.040.	<input type="checkbox"/>
<b>Electric vehicle (EV) charging for new multifamily dwellings, affordable housing, hotels, motels, and new residential parking facilities.</b> Provide electric vehicle infrastructure and capability for electric vehicle charging with minimum required Level 2 EV Charger, Level 1 EV Ready, Level 2 EV Ready, Low Power Level 2 EV Ready, EV Capable as specified in <a href="#">CSC 2023 Reach Code</a> section 15.38.040 and 2022 California Green Code section 4.106.4.2, whichever is more stringent. <b>110v Electrical Outlet at Bicycle Parking:</b> All multifamily residential developments shall include secured bicycle parking with 110v electrical outlets per <a href="#">CSC 2023 Reach Code</a> section 15.38.040. <b>Location:</b> EVCS shall be located adjacent to an accessible parking space, and/or on an accessible route, per CGC 4.106.4.2.2.1.1. <b>Dimension:</b> Each EV ready space or EVCS shall be minimum 18 ft long and 9 ft wide. One in every 25 charging spaces, but not less than one, shall have an 8 ft wide access aisle. A 5 ft wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet. Surface slope for this EV space and the aisle shall not exceed 2.083% slope in any direction, per CGC 4.106.4.2.2.1.2. <b>Accessibility:</b> EV Ready and EVCS spaces shall comply with the accessibility provision for EV Charging stations in <i>California Building Code</i> Chapter 11A (section 1109A) and Chapter 11B, per CGC 4.106.4.2.2.1.3. <b>EV Ready Space Signage:</b> EV ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Marking) or its successor(s), per CGC 4.106.4.2.5. <b>Automatic load management system (ALMS)</b> may be installed to increase the number of EV chargers or the amperage or voltage beyond the minimum requirements in this code. The option does not allow for installing less electrical panel capacity than would be required without ALMS, per CGC 4.106.4.2.2 as amended by <a href="#">CSC 2023 Reach Code</a> section 15.38.040.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

<b>Electric vehicle (EV) charging for additions or alterations of parking facilities serving existing multifamily buildings.</b> When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, minimum 10% of total added/altered parking spaces shall be electrical vehicle charging spaces capable of supporting future Level 2 electric vehicle supply equipment (EVSE) per CGC 4.106.4.3.	<input type="checkbox"/>
<b>ENERGY EFFICIENCY (CGC 4.201)</b>	
<b>California Energy Code.</b> The building's construction shall meet or exceed the requirements of the 2022 <i>California Building Energy Efficiency Standards</i> per CGC 4.201.1.	<input type="checkbox"/>
<b>WATER EFFICIENCY AND CONSERVATION</b>	
<b>INDOOR WATER USE (CGC 4.303)</b>	
<b>Water conserving plumbing fixtures and fittings.</b> Plumbing fixtures (water closets and urinals) and fittings (faucets, showerheads, pre-rinse spray valves) shall comply with the prescriptive requirements of Section 4.303.1.1 through 4.303.1.4.5.	<input type="checkbox"/>
<b>Water closets:</b> The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (CGC 4.303.1.1).	<input type="checkbox"/>
<b>Urinals:</b> The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush, and all other urinals shall not exceed 0.5 gallons per flush (CGC 4.303.1.2).	<input type="checkbox"/>
<b>Showerheads.</b> The flow rate for single showerhead and multiple showerheads serving one shower shall not exceed 1.8 gallons per minute at 80 psi and shall be certified to the performance criteria of the U.S. EPA WaterSense Specification (CGC 4.303.1.3).	<input type="checkbox"/>
<b>Residential lavatory faucets.</b> The flow rate shall not be more than 1.2 gallons per minute at 60 psi, and not less than 0.8 gallons per minute at 20 psi (CGC 4.303.1.4.1).	<input type="checkbox"/>
<b>Lavatory faucets in common and public use areas.</b> The flow rate shall not exceed 0.5 gallons per minute at 60 psi (CGC 4.303.1.4.2).	<input type="checkbox"/>
<b>Metering Faucets.</b> The flow rate shall not deliver more than 0.2 gallons per cycle (CGC 4.303.1.4.3).	<input type="checkbox"/>
<b>Kitchen Faucets.</b> The flow rate shall not exceed 1.8 gallons per minute at 60 psi (CGC 4.303.1.4.4).	<input type="checkbox"/>
<b>Pre-rinse Spray Valves.</b> When installed, shall meet the requirements of Title 20 of the <i>California Code of Regulations</i> , and shall be equipped with an integral automatic shutoff (CGC 4.303.1.4.5).	<input type="checkbox"/>
<b>Submeters for multifamily buildings and dwelling units in mixed-use residential/commercial buildings.</b> Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the <i>California Plumbing Code</i> per CBC 4.303.2.	<input type="checkbox"/>
<b>Standards for plumbing fixtures and fittings.</b> Plumbing fixtures and fittings shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> per CGC 4.303.3.	<input type="checkbox"/>
<b>OUTDOOR WATER USE (CGC 4.304)</b>	
<b>Outdoor potable water use in landscape areas.</b> Residential developments shall comply with the City's Water Service and Use Rules and Regulations, Item No. 24, as adopted by Santa Clara City Code Section 13.15.180, or the California Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent, per CGC 4.304.1.	<input type="checkbox"/>
<b>ENHANCED DURABILITY AND REDUCED MAINTENANCE (CGC 4.406)</b>	
<b>Rodent proofing.</b> Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be rodent proofed by closing such openings with cement mortar, concrete masonry, or similar method acceptable to the City per CGC 4.406.1.	<input type="checkbox"/>
<b>CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING (CGC 4.408)</b>	
<b>Construction waste management.</b> Recycle and/or salvage for reuse a minimum of 65% of nonhazardous construction and demolition waste in accordance with Section 4.408.2, 4.408.3, or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance (CGC 4.408.1).	<input type="checkbox"/>
<b>BUILDING MAINTENANCE AND OPERATION (CGC 4.410)</b>	
<b>An operation and maintenance manual</b> shall be provided to the building occupant or owner per CGC 4.410.1.	<input type="checkbox"/>

<b>Recycling by occupants.</b> 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 depositing, storage and collection of nonhazardous materials for recycling per CGC 4.410.2.	<input type="checkbox"/>
<b>ENVIRONMENTAL QUALITY (CGC 4.503)</b>	
<b>Gas fireplace.</b> Any installed gas fireplaces shall be a direct-vent sealed-combustion type per CGC 4.503.1.	<input type="checkbox"/>
<b>Woodstoves.</b> 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 per CGC 4.503.1. Woodstoves and pellet stoves shall also comply with Santa Clara City Code Chapter 15.65.	<input type="checkbox"/>
<b>POLLUTANT CONTROL (CGC 4.504)</b>	
<b>Covering of duct openings and protection of mechanical equipment during construction.</b> 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 distribution component openings shall be covered with tape, plastic, sheetmetal, or other methods acceptable to the City to reduce the amount of water, dust or debris, which may enter the system per CGC 4.504.1.	<input type="checkbox"/>
<b>Adhesives, sealants and caulks</b> shall meet the VOC or other toxic compound limits per CGC 4.504.2.1.	<input type="checkbox"/>
<b>Paints, stains and other coatings</b> shall comply with VOC limits per CGC 4.504.2.2.	<input type="checkbox"/>
<b>Aerosol paints and coatings</b> shall meet the product-weighted MIR limits for ROC and other requirements per CGC 4.504.2.3.	<input type="checkbox"/>
<b>Verification.</b> Documentation shall be provided, at the request of the Building Division, to verify that compliant VOC-limit finish materials have been used per CGC 4.504.2.4.	<input type="checkbox"/>
<b>Carpet systems.</b> All carpet installed in the building interior shall meet the testing and product requirements of CGC 4.504.3.	<input type="checkbox"/>
<b>Resilient flooring systems.</b> Where resilient flooring is installed, at least 80% of the floor area receiving resilient flooring shall comply with the requirements of CGC 4.504.4.	<input type="checkbox"/>
<b>Composite wood products.</b> Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall comply with low formaldehyde emissions standards and requirements per CGC 4.504.5.	<input type="checkbox"/>
<b>INTERIOR MOISTURE CONTROL (CGC 4.505)</b>	
<b>Concrete slab foundations.</b> Vapor retarder and capillary break shall be installed if a slab-on-grade foundation system is used. The use of a 4" thick base of ½" or larger clean aggregate under a 10-mil vapor retarder with joints lapped not less than 6" shall be provided per CGC 4.505.2, CRC R506.2.2, CRC R506.2.3 and CBC Section 1805.	<input type="checkbox"/>
<b>Moisture content of building material.</b> Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19% moisture content. Moisture content shall be checked prior to finish material being applied per CGC 4.505.3.	<input type="checkbox"/>
<b>INDOOR AIR QUALITY AND EXHAUST (CGC 4.506)</b>	
<b>Bathroom exhaust fans.</b> Each bathroom shall be mechanically ventilated using ENERGY STAR compliant fans ducted to the exterior and equipped with humidity controls system per CGC 4.506.1.	<input type="checkbox"/>
<b>ENVIRONMENTAL COMFORT (CGC 4.507)</b>	
<b>Heating and air-conditioning system</b> shall be sized, designed and have their equipment selected using the following methods per CGC 4.507.2: 1. Heat Loss/Heat Gain values in accordance with ANSI/ACCA 2 Manual J-2016, ASHRAE handbook or equivalent. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D-2016, ASHRAE handbook or equivalent. 3. Select heating and cooling equipment in accordance with ANSI/ACCA 3 Manual S-2014 or equivalent.	<input type="checkbox"/>
<b>INSTALLER AND SPECIAL INSPECTOR QUALIFICATION (CGC 702)</b>	
<b>Installer training.</b> HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a recognized training or certification program per CGC 702.1.	<input type="checkbox"/>
<b>Special inspection.</b> Special inspectors employed by the City must be qualified and able to demonstrate competence in the discipline they are inspecting per CGC 702.2.	<input type="checkbox"/>

**VERIFICATION (CGC 703)**

**Documentation.** Upon request, verification of compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the building department which will show substantial conformance per CGC 703.1.



**Responsible Designer's Declaration Statement**

I hereby certify that this project has been designed to meet the requirements of the 2022 California Green Building Standards Code.

Name:

Signature:

Date:

Company:

Address:

City:

State:

Zip:

**Contractor Declaration Statement**

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 California Green Building Standards Code.

Name:

Signature:

Date:

License:

Address:

City:

State:

Zip: