CALGREEN RESIDENTIAL MANDATORY CHECKLIST

THESE REQUIREMENTS APPLY TO BUILDING PERMITS SUBMITTED ON OR AFTER JANUARY 1, 2020

Sunnyvale

Following is a standardized checklist of the 2019 California Green Building Standards Code (CalGreen) requirements that may be used to demonstrate compliance with the CalGreen Mandatory Measures (Chapter 4). This checklist is required for all new buildings and additions/alterations that increase the building's conditioned area. The requirements shall apply only to and/or within the specific area of the addition or alteration.

CALGreen Reference	Description	Designer's Comments with Plan Sheet Reference	City Field Inspection Verification
4.1 Planning and Design	4.106.2 **Storm Water Drainage and Retention during construction.** A plan is developed and implemented to manage storm water drainage during construction.	Sheet:	Initials and Date:
4.1 Planning and Design	4.106.3 **Grading and paving.** Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings	Sheet:	Initials and Date:
4.1 Planning and Design	4.106.4.1 **New one- and two-family dwellings and townhouses with attached private garages** shall install a listed raceway to accommodate a dedicated 208.240-volt branch circuit	Sheet:	Initials and Date:
4.1 Planning and Design	4.106.4.2 **New multifamily dwellings.** If residential parking is available, ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces capable of supporting future EVSE.	Sheet:	Initials and Date:
4.1 Planning and Design	4.106.4.3 **New hotels and motels.** All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE.	Sheet:	Initials and Date:
4.2 Energy Efficiency	4.201.1 **Scope** Compliance with the California Energy Commission mandatory standards.	Sheet:	Initials and Date:

4.3 Water Efficiency and Conservation	4.303.1.1 **Water Closets.** Effective flush volume of all water closets shall not exceed 1.28 gallons per flush.	Sheet:	Initials and Date:
4.3 Water Efficiency and Conservation	4.303.1.2 **Urinals**. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.	Sheet:	Initials and Date:
4.3 Water Efficiency and Conservation	4.303.1.3 **Showerheads.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. When a shower is served by more than one showerhead, the combined flow rate of all shower heads shall not exceed 1.8 gallons per minute at 80 psi.	Sheet:	Initials and Date:
4.3 Water Efficiency and Conservation	4.303.1.4 **Faucets.** Residential lavatory faucets shall not exceed 1.2 gpm at 60 psi. Lavatory faucets in common and public use areas in residential buildings shall not exceed 0.5 gpm at 60 psi. Metering faucets installed in residential buildings shall not deliver more than 0.2 gallons per cycle. Kitchen faucets shall not exceed 1.8 gpm at 60 psi.	Sheet:	Initials and Date:
4.3 Water Efficiency and Conservation	4.303.2 **Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed per the California Plumbing Code.	Sheet:	Initials and Date:
4.3 Water Efficiency and Conservation	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).	Sheet:	Initials and Date:
4.3 Water Efficiency and Conservation	4.305.1 **Recycled water supply systems.** Newly constructed residential developments, where recycled water is available from a municipal source may be required to have recycled water supply systems installed.	Sheet:	Initials and Date:

4.4 Material Conservation and Resource Efficiency	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.	Sheet:	Initials and Date:
4.4 Material Conservation and Resource Efficiency	4.408.1 **Construction waste management.** Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste.	Sheet:	Initials and Date:
4.4 Material Conservation and Resource Efficiency	4.408.2 **Construction waste management plan.** Submit a construction waste management plan.	Sheet:	Initials and Date:
4.4 Material Conservation and Resource Efficiency	4.410.1 **Operation and maintenance manual.** An operation and maintenance manual shall be provided to the building occupant or owner.	Sheet:	Initials and Date:
4.4 Material Conservation and Resource Efficiency	4.410.2 **Recycling by occupants.** Where 5 or more multifamily dwelling units are constructed on a building site, readily accessible areas shall be identified for the collection of recycling.	Sheet:	Initials and Date:
4.5 Environmental Quality	4.503.1 **Fireplaces.** Any installed gas fireplace shall be a direct-vent sealed-combustion type.	Sheet:	Initials and Date:

4.5 Environmental Quality	4.503.3 **Moisture content of building materials.** Moisture content of building materials used in wall and floor framing is checked before enclosure.	Sheet:	Initials and Date:
4.5 Environmental Quality	4.504.1 **Covering of duct openings and protection of mechanical equipment during construction.** Duct openings and other related air distribution component openings shall be covered during construction.	Sheet:	Initials and Date:
4.5 Environmental Quality	4.504.2 **Finish material pollutant control.** **Adhesives, sealants and caulks.** Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits. **Paints and coatings.** Paints, stains and other coatings shall be compliant with voelimits. **Aerosol paints and coatings.** Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds. **Verification.** Documentation shall be provided to verify that compliant voe limit finish materials have been used.	Sheet:	Initials and Date:
4.5 Environmental Quality	4.504.3 **Carpet systems.** All carpet installed in the building interior shall meet the testing and product requirements of one of the following: 1. Carpet and Rug lnstitute's Green Label Plus Program. 2. California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350.) 3. NSFI ANSI 140 at the Gold level. 4. Scientific Certifications Systems Indoor Advantage™ Gold. **Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug lnstitute's Green Label program. **Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 4.504.1.	Sheet:	Initials and Date:

4.5 Environmental Quality	4.504.4 **Resilient flooring systems.** Where resilient flooring is in stalled, at least 80 percent of floor area receiving resilient flooring shall comply with one or more of the following: 1. Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (alsoknown as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database. 2. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program). 3. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. 4. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 201 0 (also known as Specification 01350).	Sheet:	Initials and Date:
4.5 Environmental Quality	4.504.5 **Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93J20 et seq.), by or before the dates specified in those section s, as shown in Table 4.504.5.	Sheet:	Initials and Date:
4.5 Environmental Quality	4.505.2 **Concrete slab foundations.** Vapor retarder and capillary break is installed at slab-on-grade foundations.	Sheet:	Initials and Date:
4.5 Environmental Quality	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-2011 or equivalent. 2. Size duct systems according to ANSI/ACCA 1	Sheet:	Initials and Date:

	Manual D-2014 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual 5-2014 or equivalent.		
Chapter 7: Installer and Special Inspector Qualifications	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.	Sheet:	Initials and Date: