



**City of San Ramon**  
**Building and Safety Services**

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**Updated: December 2023**

## **SMOKE DETECTORS and CARBON MONOXIDE ALARMS**

### **☐ Smoke Detectors:**

- When a permit is required for alterations, repairs or additions requiring a permit occur, the individual dwelling unit shall be equipped with smoke detectors located as required for new dwellings. (R314.2.2)
- Smoke alarms shall be installed: (a) in each sleeping room, (b) outside each separate sleeping area in the immediate vicinity of the bedrooms, (c) on each story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics, (d) not less than 3 feet horizontally from the door or opening of a bathroom that contains a bathtub or shower unless this would prevent placement of a smoke alarm required by this section, (e) in the hallway and in the room open to the hallway in dwelling units where the ceiling height of a room open to a hallway serving bedrooms exceeds that of the hallway by 24 inches or more. (R314.).
- Follow the manufacturers installation instructions when installing and specify on the plans when detailed plans are provided.
- Smoke Alarms (R314.6) shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup.
- Smoke Detectors shall be permitted to be battery-powered in existing homes without wiring previously installed and where the ceiling material has not been removed, see R314.6 for specific exceptions.
- Follow the manufacturers installation instructions when installing.
- This document is a summary of the requirements for basic home installation, for more details, see: [https://codes.iccsafe.org/content/CARC2022P1/chapter-3-building-planning#CARC2022P1\\_Pt03\\_Ch03\\_SecR314](https://codes.iccsafe.org/content/CARC2022P1/chapter-3-building-planning#CARC2022P1_Pt03_Ch03_SecR314)

### **☐ Carbon Monoxide Alarms:**

- Where an addition is made to an existing dwelling, or a fuel-burning heater, appliance or fireplace is added to an existing dwelling, not previously required to be provided with carbon monoxide alarms, new carbon monoxide alarms shall be installed in accordance with Section R315.
- Smoke alarms shall be installed: (a) outside each separate sleeping area in the immediate vicinity of the bedrooms; (b) on every occupiable level of a dwelling unit, including basements; (c) where a fuel - burning appliance is located within a bedroom or its attached bathroom, a carbon monoxide alarm shall be installed within the bedroom. (CRC R315.3).
- Carbon Monoxide Detectors (CRC R315.6) shall receive their primary power from the building wiring where such wiring is served from a commercial source and where primary power is interrupted, shall receive power from a battery.
- Carbon Monoxide Detectors (CRC R315.6, Exceptions) shall be permitted to be battery-powered or plug-in with battery backup in existing buildings built prior to January 1, 2011.
- Follow the manufacturers installation instructions when installing.
- This document is a summary of the requirements for basic home installation, for more details, see: [https://codes.iccsafe.org/content/CARC2022P1/chapter-3-building-planning#CARC2022P1\\_Pt03\\_Ch03\\_SecR315](https://codes.iccsafe.org/content/CARC2022P1/chapter-3-building-planning#CARC2022P1_Pt03_Ch03_SecR315)