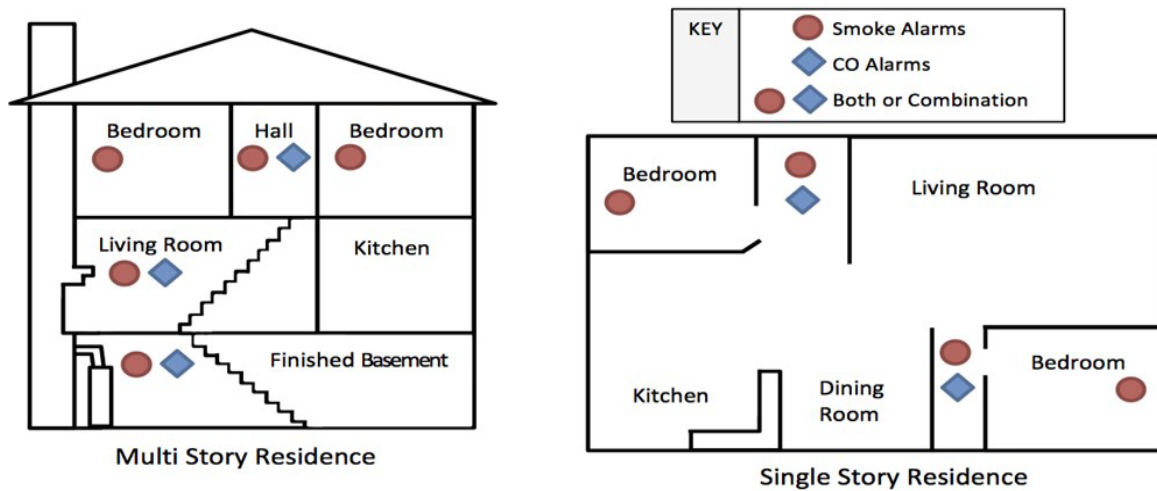




## Smoke Detectors and Carbon Monoxide

Following is a listing of the general requirements for the installation of smoke detectors and carbon monoxide alarms for residential buildings based on the 2022 California Building Code (CBC), California Electrical Code (CEC), California Residential Code (CRC), and California Fire Code (CFC).

### Listed and Approved Smoke Detectors and Carbon Monoxide Alarms Shall Be Installed



Required Areas for Project Exceeding	Smoke Detectors [CRC 314, CBC 907.2]	CO Alarms* [CRC 315, CBC 907.2]
In each sleeping room	Yes	
Outside of each sleeping room	Yes	Yes
On every level including basements	Yes	Yes
In enclosed common stairwells of apartment complexes and other multiple-dwelling complexes	Yes	
In a group R-3.1 (i.e. adult residential facilities), in addition to the above, smoke alarms shall be provided throughout the habitable areas of the dwelling unit except kitchens	Yes	Yes

\*CO alarm not required if there are no fuel burning appliances and no attached garages.

### New Construction and Additions

In new construction and additions, required smoke alarms and carbon monoxide alarms shall receive their primary power from the permanent building electrical power system. Where two or more smoke alarms or carbon monoxide alarms are required, they shall be interconnected in such a manner that actuation of one shall cause actuation of all detectors in the dwelling unit. (CBC 907.2.11, CRC R314, CRC R315).

All new electrical outlets (including smoke alarms, carbon monoxide alarms, receptacles, switches, lighting, etc.) shall be on circuits protected with a combination arc-fault circuit interrupter. (CEC 210.12).



### **Remodeled Dwelling Units**

When a permit is required for any repair, alteration, or addition, smoke detectors and carbon monoxide alarms shall be installed in accordance with the following location and maintenance provisions. In existing dwelling units, smoke detectors and carbon monoxide alarms may be solely battery operated in the following circumstances (CBC 907.2.11, CRC R314, CRC R315):

- No construction is taking place.
- There is no commercial power source.
- Interior wall or ceiling finishes are not removed.
- Scope of work is limited to the exterior of the residence.

### **Smoke Detector and Carbon Monoxide Alarm Device Location**

Shall be installed per manufacturer's installation instructions. All battery powered smoke alarms shall have a 10-year battery.

### **Maintenance**

The owner shall be responsible for testing and maintaining detectors in hotels, motels, lodging houses, and common stairwells of apartment complexes and other multiple dwelling complexes. The smoke alarm shall be operable at the time that the tenant takes possession. The apartment complex tenant shall be responsible for notifying the manager or owner if the tenant becomes aware of an inoperable smoke alarm within his or her unit. The owner or authorized agent shall correct any reported deficiencies in the smoke detector or carbon monoxide alarm and shall not be in violation of this section for a deficient smoke detector or carbon monoxide alarm when he or she has not received notice of the deficiency. (CRC R314.8.2 and California Health and Safety Code 13113.7).

### **Smoke Detector/Alarm Batteries and Replacement**

All newly installed smoke detector alarms shall have a 10-year battery. Smoke detector alarms shall be replaced within 10 years from the date of manufacture marked on the unit. (SB 745, 2014).