



Cedar Rapids Building Services ILLOWA Chapter of ICC



Smoke & Carbon Monoxide Alarms International Residential Code (IRC) R314, R315

Fire Danger in the Home:

Fire is the third leading cause of accidental death. Residential occupancies account for most fire fatalities and most of these deaths occur at night during the sleeping hours.

Fire Safety in the Home:

Reasonable fire safety can be provided by:

1. Minimizing fire hazards
2. Providing a fire warning system
3. Having an escape plan

Locations:

Smoke Alarms are required in the following locations in dwellings:

- In each sleeping room.
- Outside of each separate sleeping area in the immediate vicinity of the sleeping rooms.
- In each additional story of the dwelling including the basement.

Carbon Monoxide Alarms:

An approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached garages.

Interconnected:

The Smoke Alarm devices shall be interconnected in such a manner that the activation of one alarm shall activate all of the alarms in the dwelling. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed. The sound level at the pillow shall be not less than 70 dBA.

All smoke alarms shall be dual sensor (per State of Iowa Law), listed in accordance with UL 217, and installed in accordance with the International Residential Code and the household fire warning equipment provisions of NFPA 72.

Additions, alterations, or repairs:

When interior alterations, interior repairs, or additions requiring a permit occur, or when a sleeping room is added or created, smoke alarms shall be provided throughout in the locations as required for new homes.

Power:

In new construction, smoke alarms shall receive their power from the house wiring and shall be equipped with battery backup. Smoke alarms may be solely battery operated when installed in existing buildings undergoing repairs or alterations, additions and remodels.

Smoke Alarms and Carbon Monoxide Alarms must be installed and be operational prior to final inspection.