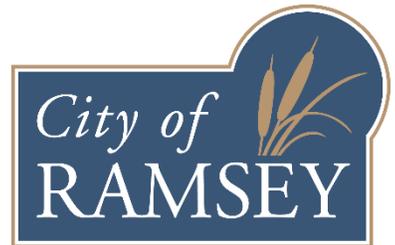


SMOKE & CARBON MONOXIDE ALARMS

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This pamphlet is a compilation of some of the standard requirements based on the State Building Code and City Zoning Code for projects of this type. This information packet does not contain all of the specific codes for construction and should only be used as a guide. The permittee is responsible to meet all code requirements applicable to each project.

Smoke Alarms

Shall be installed in the following location:

1. In each sleeping room.
2. Outside each separate sleeping area within 10 feet of the sleeping area.
3. On each story of the dwelling, including the basements.

When interior alterations, repairs or additions require a permit, or when one or more sleeping rooms are added or created in an existing dwelling, the individual dwelling unit shall be provided with smoke detectors **located as required above**. The smoke detectors shall be interconnected and hardwired to the building's electrical supply system.

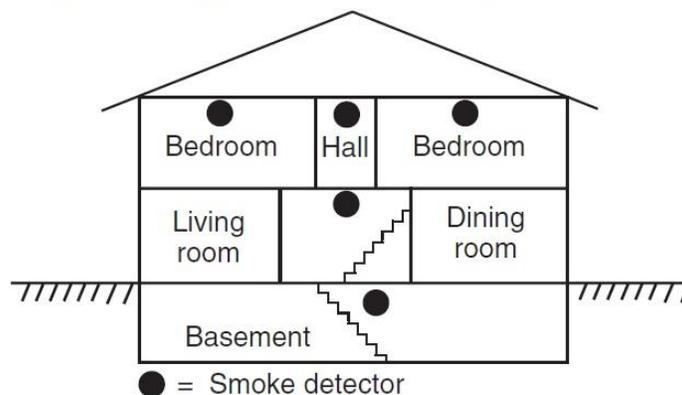
Exceptions:

1. Smoke detectors in existing areas shall not be required to be interconnected and hardwired where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure.
2. Work on the exterior which does not require entry into the interior for inspection; such as roofing, siding, decks and detached buildings.

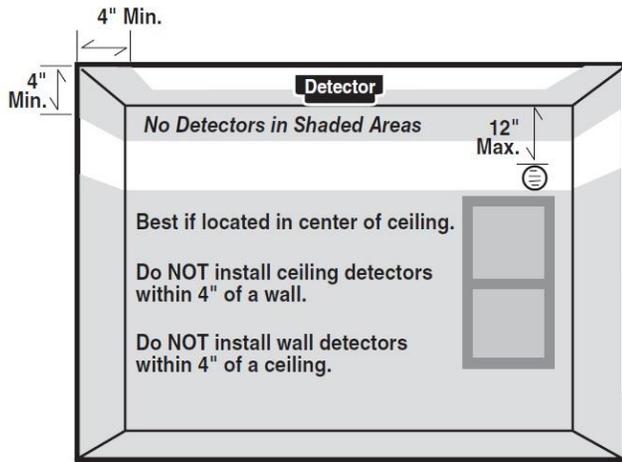
Installation in Existing Homes

- Smoke detectors should not be located within kitchens, garages or in other spaces where temperatures can fall below 32° F or exceed 100° F. Refer to manufacturer's specific installation requirements.
- Smoke detectors should not be located within 3 feet of supply registers or a forced air heating or cooling system and doors to a kitchen or bathroom with a tub or shower because these conditions cause excessive, erratic and unreliable operations.
- Smoke detectors in rooms with ceiling slopes greater than 1-foot rise per 8 feet horizontally shall be located at the high side of the room.
- A smoke detector installed in a stairwell should be located to ensure that smoke rising in the stairwell cannot be prevented from reaching the detector by an intervening door or obstruction.
- If there are no bedrooms in the basement, the recommended location of the detector is then in close proximity to the stairway leading to the floor above.

Single-family home detector placement



Smoke Alarm Placement in Sleeping Room



- Smoke detectors should not be located within 36 inches horizontally of ceiling fan blades.
- Life expectancy of smoke detectors is about 10 years. When replacing a hardwired smoke detector the replacement must also be hardwired.
- Smoke detectors must be adequately secured.
- In all cases install smoke detectors according to the manufacturer's instructions

Carbon Monoxide Alarms

The 2006 Minnesota State Legislature enacted legislation requiring carbon monoxide alarms in all single-family homes and multifamily apartment units. These requirements will be phased in as follows:

Effective Dates:

- Effective January 1, 2007, all newly constructed single family homes and multifamily dwelling units for which building permits were issued on or after January 1, 2007, shall be provided with an approved carbon monoxide alarm.
- Effective August 1, 2008, all existing single-family homes shall be equipped with an approved carbon monoxide alarm.
- Effective August 1, 2009, all existing multifamily or apartment units shall be provided with an approved carbon monoxide alarm.

General location Requirements:

- Within 10 feet of each room lawfully used for sleeping purposes. Verify installation height with manufacturer's installation directions.

Listing or Certification of Detectors:

- All carbon monoxide alarms shall be certified by a nationally recognized testing laboratory to conform to the latest Underwriters Laboratories (UL) 2034 standards.

Owner Responsibilities in Multifamily Dwellings:

- It shall be the owner's responsibility of a multifamily dwelling to (1) provide and install one approved and operational carbon monoxide alarm within 10 feet of each room lawfully used for sleeping; and (2) replace any required carbon monoxide alarm that has been stolen, removed, found missing, or rendered inoperable during a prior occupancy.

Power:

- Carbon monoxide alarms must be either hardwired into the electrical wiring, directly plugged into an electrical outlet without a switch, or battery powered.