

FIRE ALARM INSTALLATION & INSPECTION CHECKLIST

Note: All installations shall conform with 780 CMR 5313 and installed and maintained in accordance with 5313, manufacturers instructions and listing criteria and otherwise shall be installed and maintained in accordance with Chapter 2 of NFPA 72 and 527 CMR 12.00. *This checklist is based on typical installations only. If and when unusual or special installation circumstances are presented, consult the fire department.*

- Only photoelectric or combination photo-electric/ionization type smoke detectors shall be permitted in MA (5313.1)
 - All devices and equipment compatible for the purposes intended. (5313.2.2)
 - Where more than 12 smoke detectors are installed, system type devices must be utilized. (5313.2)
 - Power for single and multiple station smoke detectors: Shall be supplied from permanently wired connection to an AC power source. AC powered detectors shall be on a single branch circuit which also provides service to habitable spaces, or on a locked, dedicated branch circuit. Power source shall be on the supply side, ahead of any switches. (5313.2.5.1)
 - Power for low voltage systems: Shall include a listed control unit with automatic detectors and occupant notification powered from a permanently wired AC primary power source. AC power shall be supplied from a dedicated, locked branch circuit or the un-switched portion of a branch circuit also used for the power and lighting of habitable spaces. (5313.2.5.2)
 - Secondary electrical power: Shall be provided by monitored batteries for 110 volt and low voltage household fire warning systems. (5313.2.5.3)
 - Activation: Activation of one detector causes the alarm in all required smoke detectors in the unit/dwelling to sound. (5313.2.3)
 - Signal Intensity: Required alarm sounding devices shall be 85 dBA at ten feet, those in bedrooms shall be 75 dBA at the pillow level. (5313.2.4)
 - Required Locations: (5313.2.9)
 1. Immediate vicinity of bedrooms.*
 2. In all bedrooms.
 3. On each story including basements and cellars but not crawl spaces and uninhabitable attics.
 4. One for each 1200 sq. ft. of living space or part thereof.
 5. Split level homes - smoke detector installed in upper level unless intervening door is in place, then one shall be installed on each level.
 6. Not required in bedrooms where an automatic sprinkler system is present.
 7. Near base of all stairs where such stairs lead to another occupied floor.
* Immediate vicinity shall mean within 20ft. (measured on a flat unobstructed ceiling) from doorway of room(s) containing smoke detectors.
 - Photoelectric detectors: Required if located within 20 ft. of a kitchen or bathroom (with tub or shower) or if combination smoke/CO detector used.(5313.2.11)
 - Maintenance: Owner supplied with manufacturer's operating instructions so they may meet their obligations to maintain the system. (5313.2.7)
 - Upgrade: Entire building has been upgraded to current code with addition or creation of one or more sleeping rooms, or if dwelling undergoes complete reconstruction. (9304.8)
 - Detectors secured and attached, in working order with any protective packaging removed.
 - Detectors mounted on walls shall be no more than 12" but no less than 4" from ceiling or adjoining wall. (5313.2.12) •
 - Detectors mounted on a ceiling shall not be closer than 4" from wall (NFPA). Recommended: Mount detectors 2-3 ft. from wall.
 - Detectors not closer than three (3) feet from: Paddle fans (measured at tip of closest fan blade.) Supply vent for HVAC units (measured from edge of grill), and bathroom doors.
 - Fuse panel clearly marked to determine compliance with 5313.2.5.
 - Detectors shall not be located in "dead air" spaces, shall be mounted on slope of peaked ceilings within three (3) feet of highest point, not on sidewall. If ceiling at peak is flat, detector shall be mounted on this surface. Refer to NFPA for more information.
 - Heat detectors required in attached garages or internal garage and interconnected with household fire warning system. (5313.3 thru 5313.3.3)
 - Installation of listed 120 volt or low voltage carbon monoxide detectors. (5313.3 and 527 CMR 31.00)
 1. On each story of a dwelling unit including basements and cellars.
 2. On levels with bedrooms carbon monoxide alarms shall be placed outside of bedrooms within ten (10) ft. of bedroom doors.
 3. All alarm sounding appliances shall have a minimum rating of 85 dBA at ten (10) feet.
 4. Interconnection is required.
- Additional Requirements:
- House Number Posted in accordance with Town of Barnstable Regulations.
 1. Arabic numerals, contrasting color.
 2. House number visible from street.
 3. If numbers not visible from street, must be posted at driveway entrance or as needed.