

Smoke Alarm Data

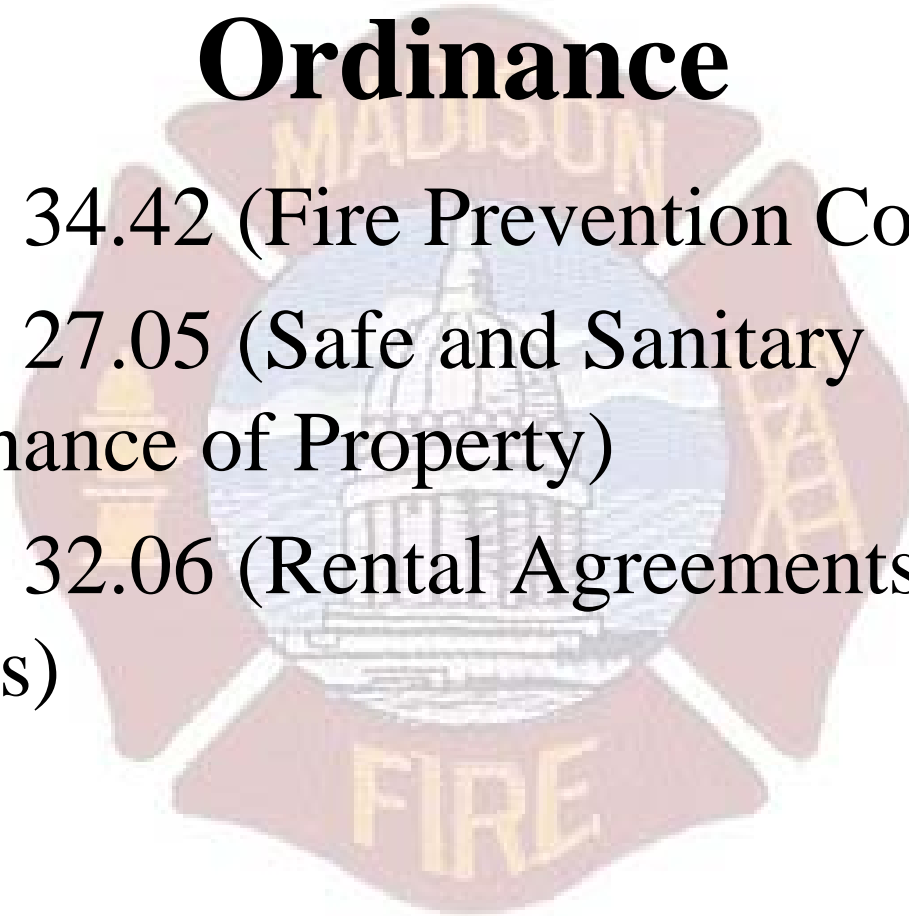
- 96% of households have smoke alarms, but alarms are not present or non-operational in 46% of reported home fires.
- Working smoke alarms in all homes would save 890 lives each year.
- 65% of home fire deaths between 2000 and 2004 occurred in homes with no smoke alarms or no working smoke alarms.
- 54% of the inoperable alarms had missing or disconnected batteries.
- 19% of the inoperable alarms had dead or discharged batteries.

Additional Realities of Smoke Alarms

- Maximum service life: 10 years
- State and local building and fire codes require owners to maintain alarms in accordance with manufacturers requirements.
- It is less expensive to comply with new ordinance than to continually maintain existing alarms.
- Liability.
- Local experience. Fire losses and ordinance support.

Madison Smoke Alarm Ordinance

- M.G.O. 34.42 (Fire Prevention Code)
- M.G.O. 27.05 (Safe and Sanitary Maintenance of Property)
- M.G.O. 32.06 (Rental Agreements and Receipts)



Ordinance Overview

- Smoke alarms powered solely by 9-volt battery are prohibited by default.
- Requires tamper-resistant or sealed 10-year lithium battery smoke alarms or 110-volt with battery back-up smoke alarms.
- Requires smoke alarms in the bedroom, within 6 feet of the bedroom door and on every floor of the home.

Ordinance Continued

- Applies to new and existing residential properties and buildings where people sleep.
- Establishes August 15, 2009, as the compliance date for apartments, condominiums, and other multi-family dwellings.
- Makes the tenant or occupant responsible for smoke alarm maintenance and testing.
- Requires the owner to provide tenants with fire safety information.

Ordinance Continued

- Prohibits tenants and occupants from rendering alarms inoperable.
- Establishes a fine for rendering alarms inoperable.
- Requires a document to be signed by the owner stating alarms are installed and in working condition and signed by the tenant indicating they accept the maintenance and testing responsibility.

Ordinance Conclusion

- Establishes August 15, 2010 as the compliance date for owner occupied single-family dwellings.
- Requires point of sale verification of compliance for owner occupied single-family dwellings.



www.madisonfire.org

- Smoke Alarm Ordinance Update
- Smoke Alarm Ordinance
- Installation Table
- Tenant Fire Safety
- Acceptable Smoke Alarms
- Smoke Alarm Owner/Tenant Responsibilities



City of Madison Fire Department

Installation Table

Currently Installed Alarms	New Requirement
110-volt older than 10 years	110-volt with battery back-up
110-volt interconnected older than 10 years	110-volt with battery back-up and interconnected
9-volt	10-year lithium (tamper-resistant or sealed) battery or 110-volt with battery back-up
Bedroom or hallway	Both sides of bedroom doors Hallway must be within 6 feet of the door
	All additional alarms above what is currently installed must be 110- volt with battery back-up or 10-year lithium battery

Battery back-up may be standard, rechargeable or lithium battery

Dates: rental properties – August 15, 2009

owner-occupied single-family – August 15, 2010



City of Madison Fire Department

Acceptable Smoke Alarms for Residential Use

The following smoke alarm models meet the minimum standards of the City of Madison's smoke alarm ordinance as approved by the Common Council on March 3, 2009. This list is not meant to be all-inclusive and other models may be added as they are identified.

KIDDE

- 0910 – 10-year lithium cell, tamper resistant features must be utilized
- KN-SMFM-i – 120-volt with rechargeable battery back-up

FIRST ALERT

- SA340B – 10-year lithium cell, tamper resistant body
- SA340CN – with 10-year tamper resistant lithium powercell
- SA305B – when used with a 10-year lithium battery and optional tamper resistant features are utilized

FIRE-X

- 4671 or 4671(C) – 10-year lithium cell, tamper resistant

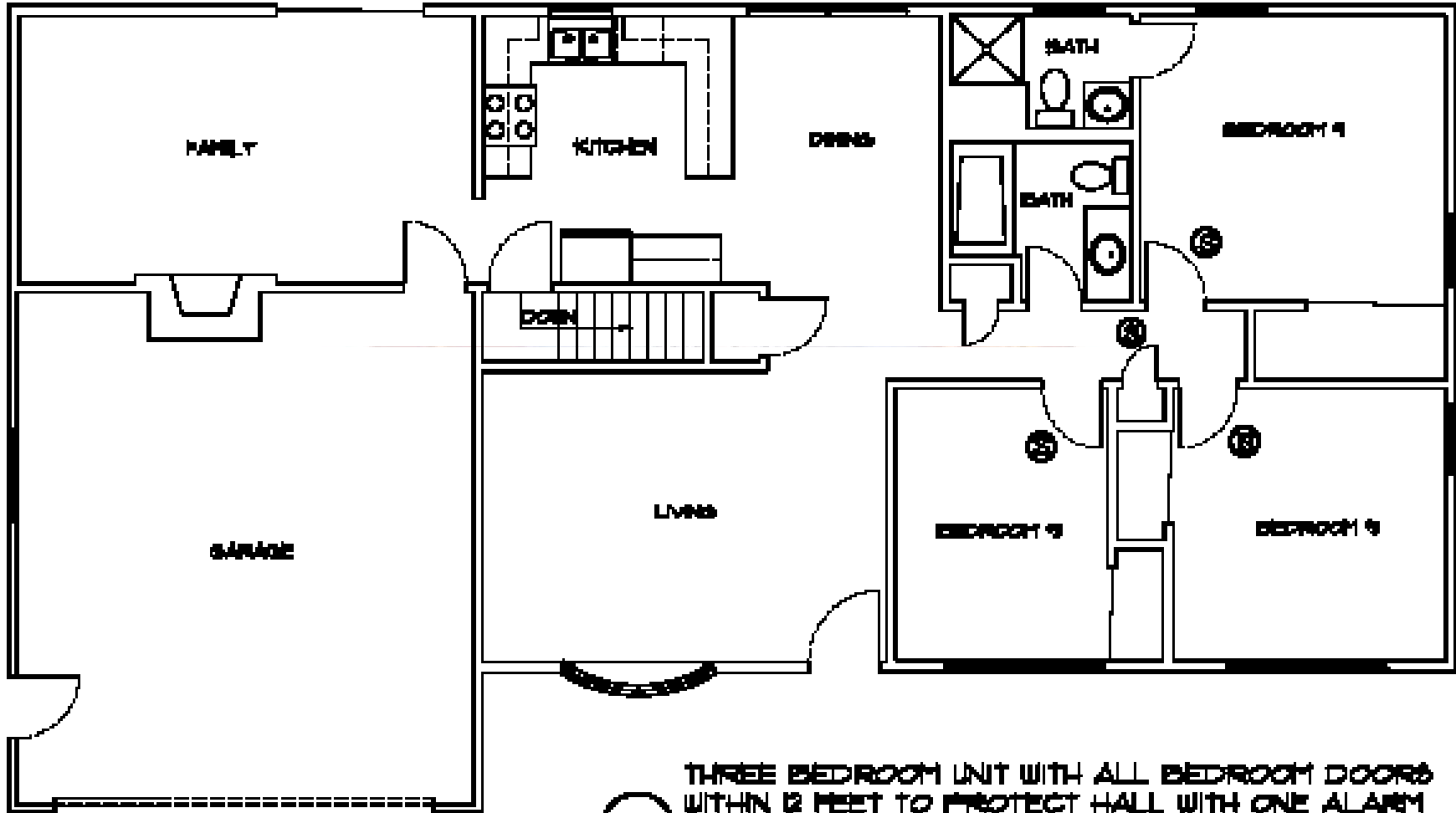
BRK

- 9120LB – 110-volt with 10-year lithium battery back-up, locking features must be used
- SA340B - 10-year lithium cell, tamper resistant body

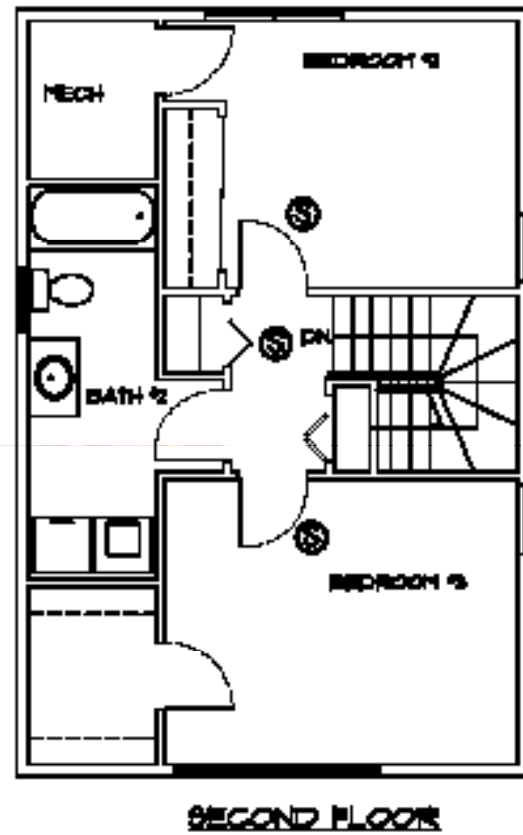
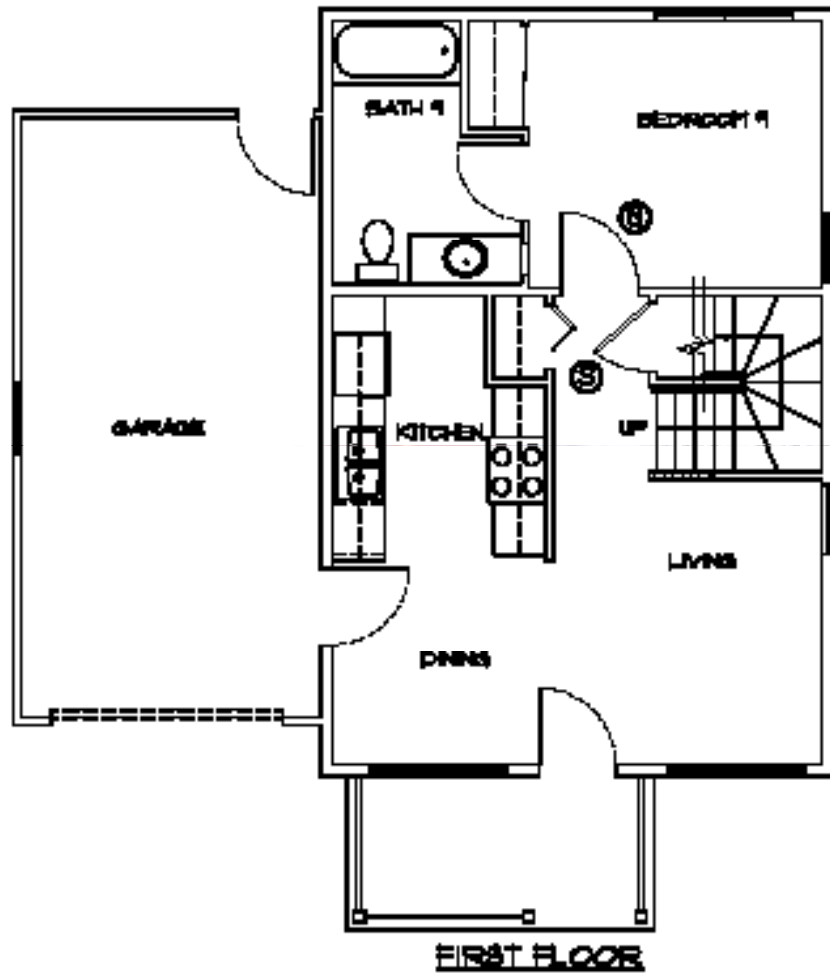
Specifically, where are smoke alarms required?

Sample floor plans:



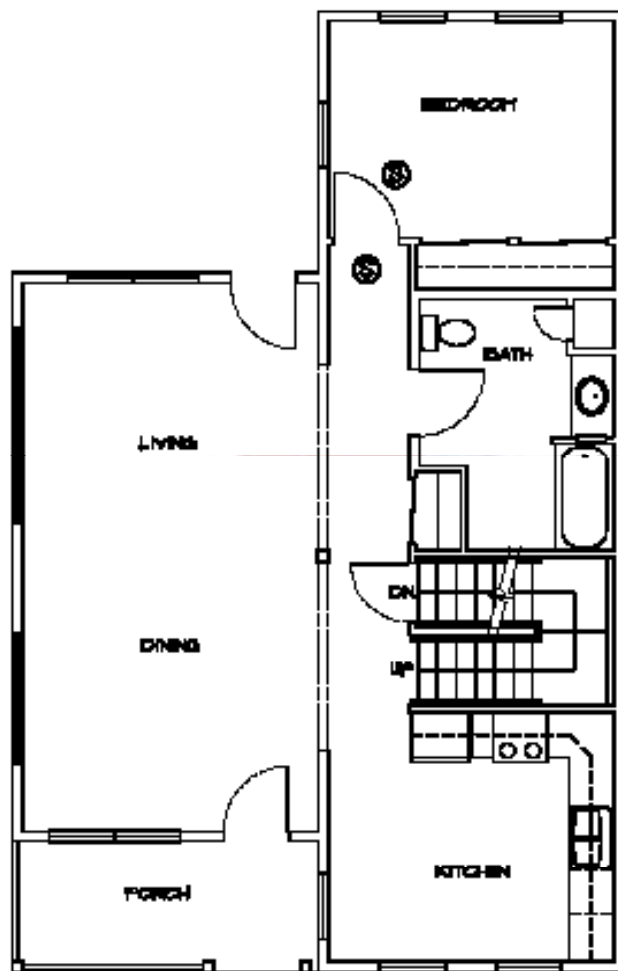


THREE BEDROOM UNIT WITH ALL BEDROOM DOORS
 WITHIN 12 FEET TO PROTECT HALL WITH ONE ALARM
 NOT TO SCALE

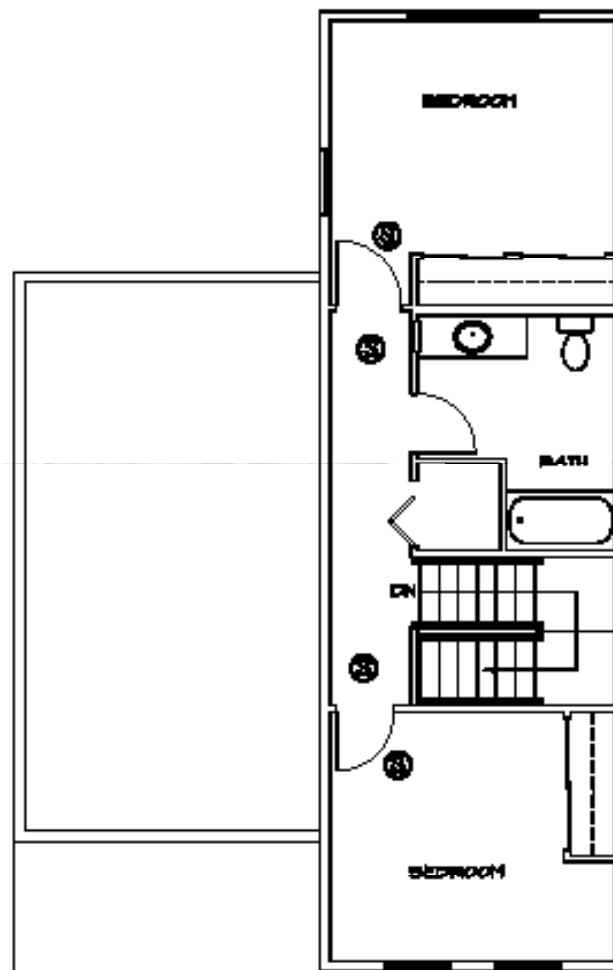


THREE BEDROOM UNIT WITH TWO BEDROOMS WITHIN 12 FEET AND ANOTHER BEDROOM REMOTE

NOT TO SCALE

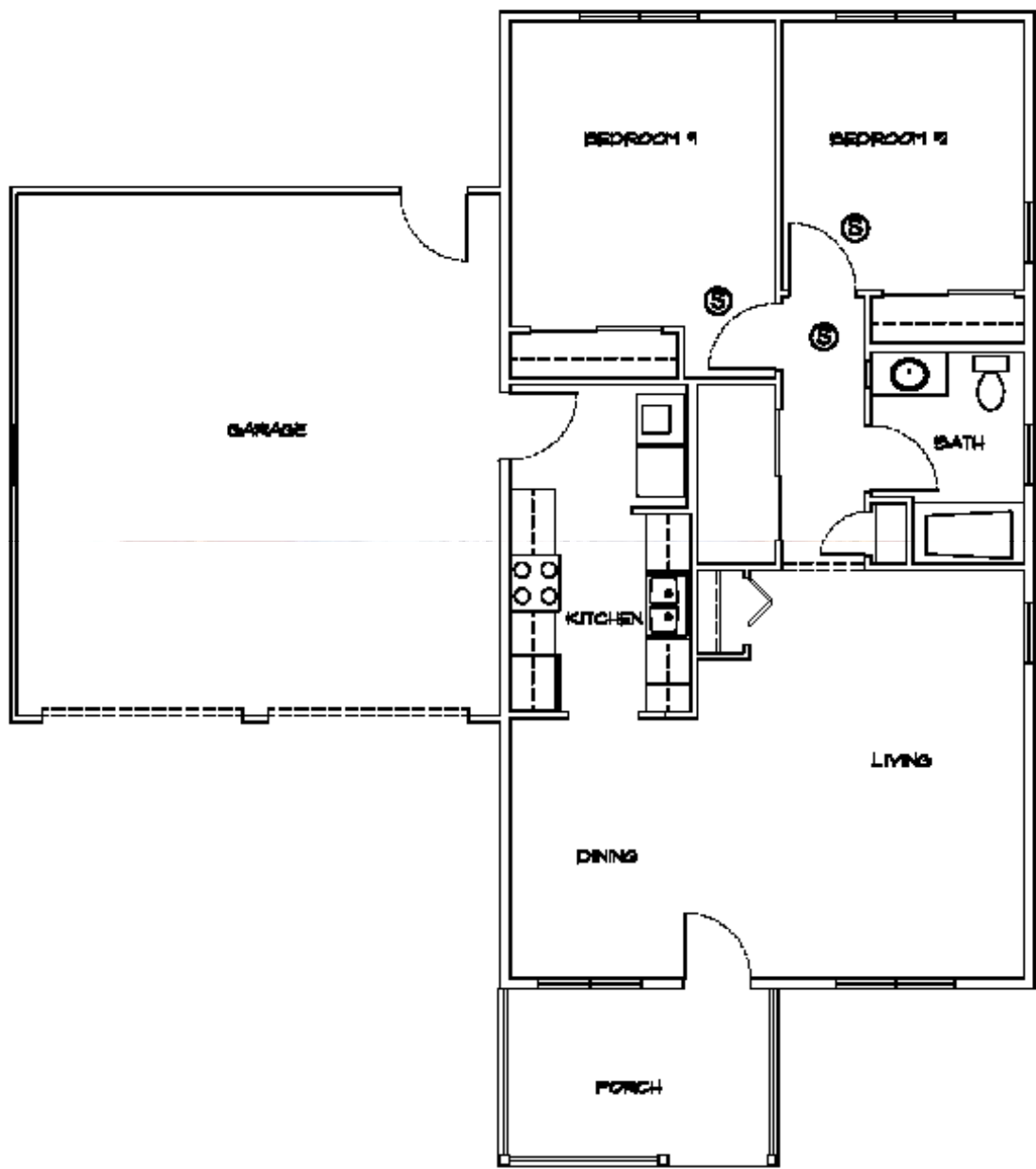


FIRST FLOOR

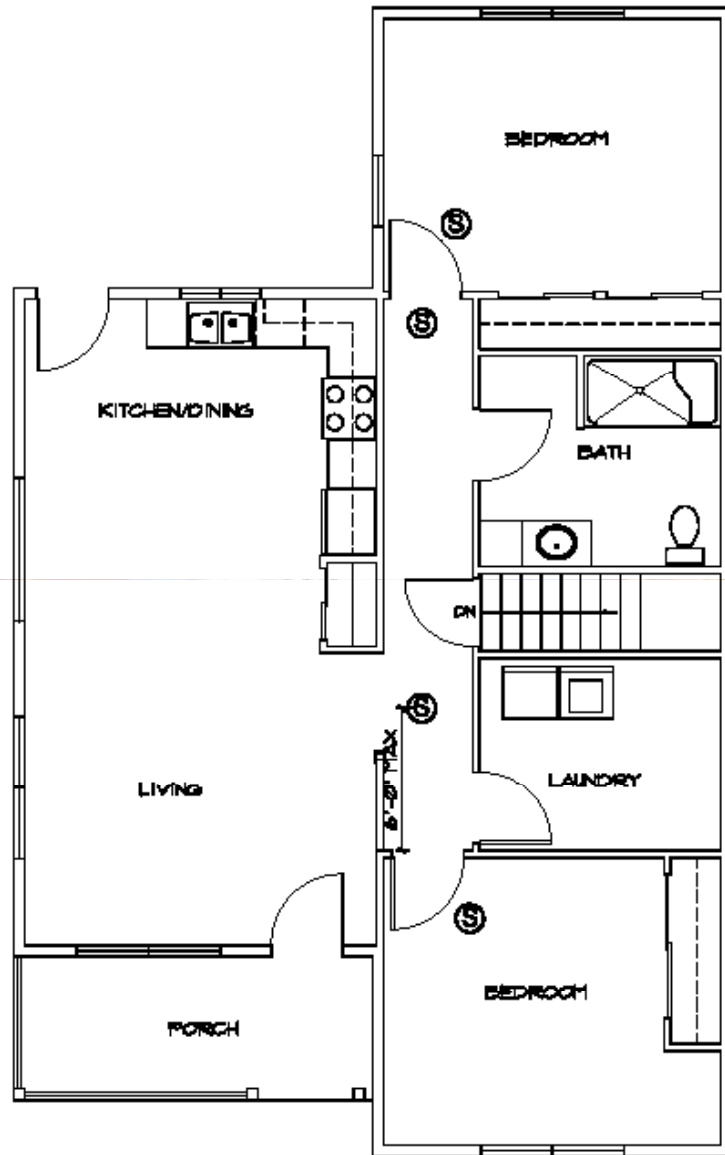


SECOND FLOOR

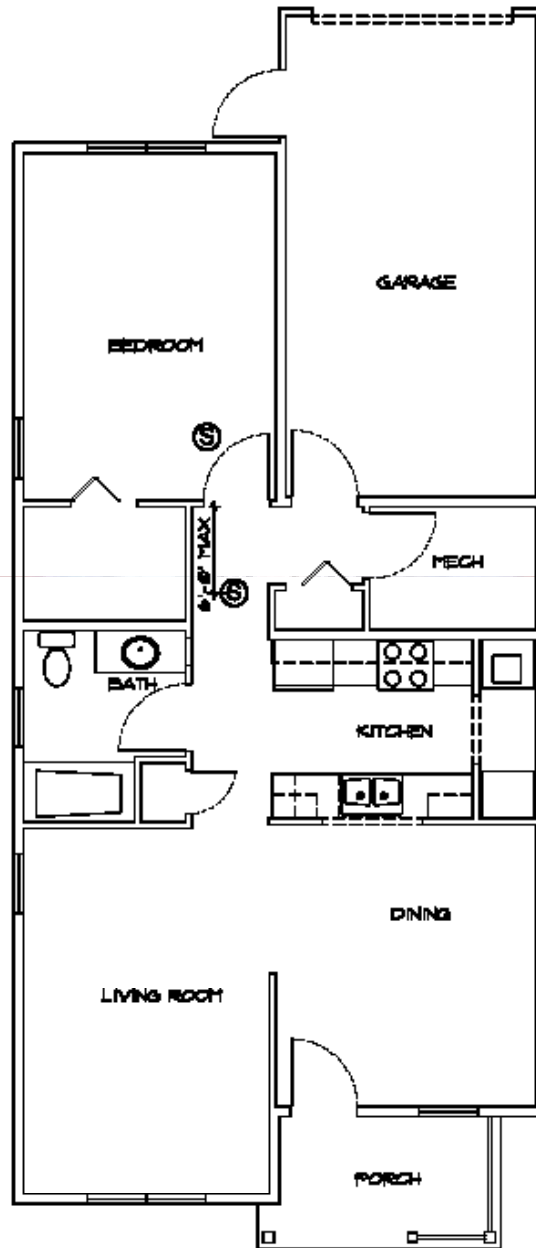

THREE REMOTE BEDROOMS
 NOT TO SCALE



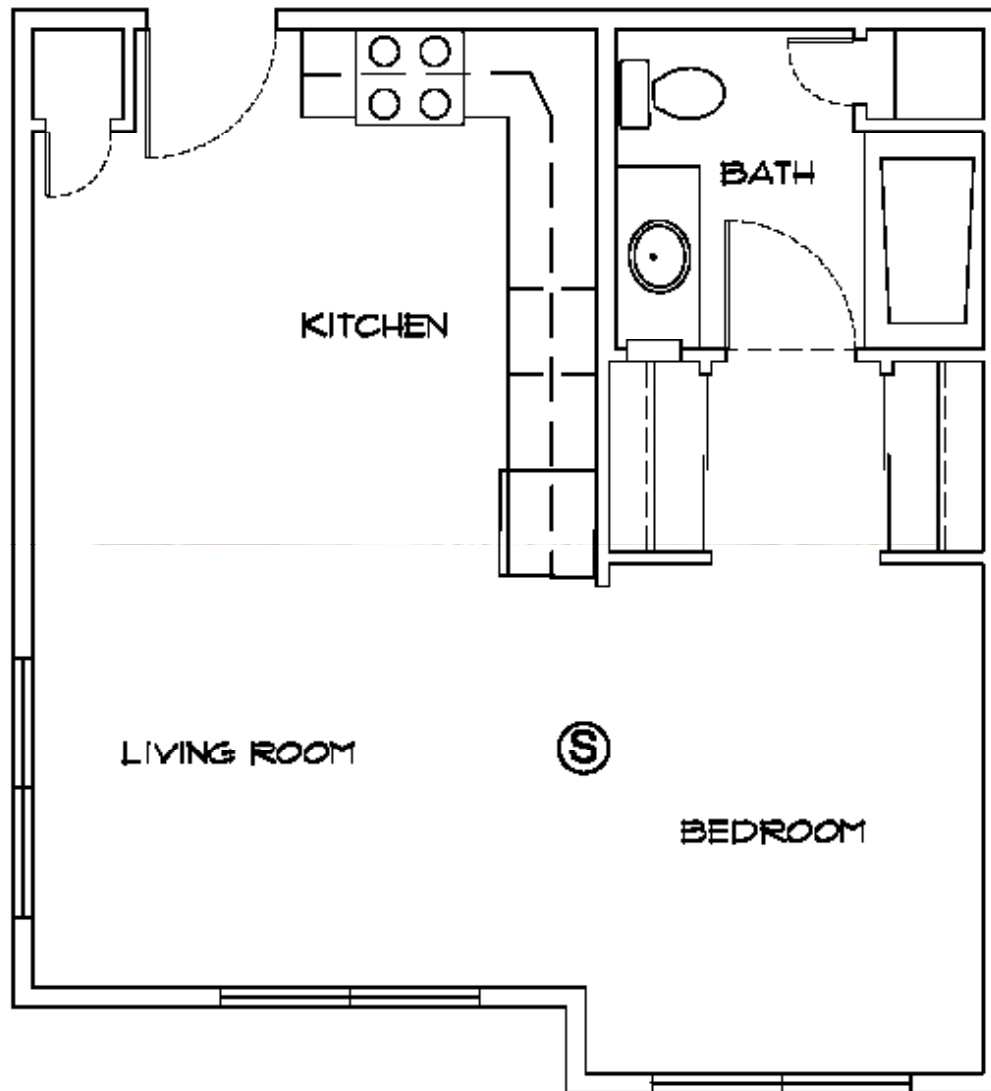
 TWO BEDROOM UNIT IN WHICH
ONE ALARM CAN PROTECT HALL
NOT TO SCALE



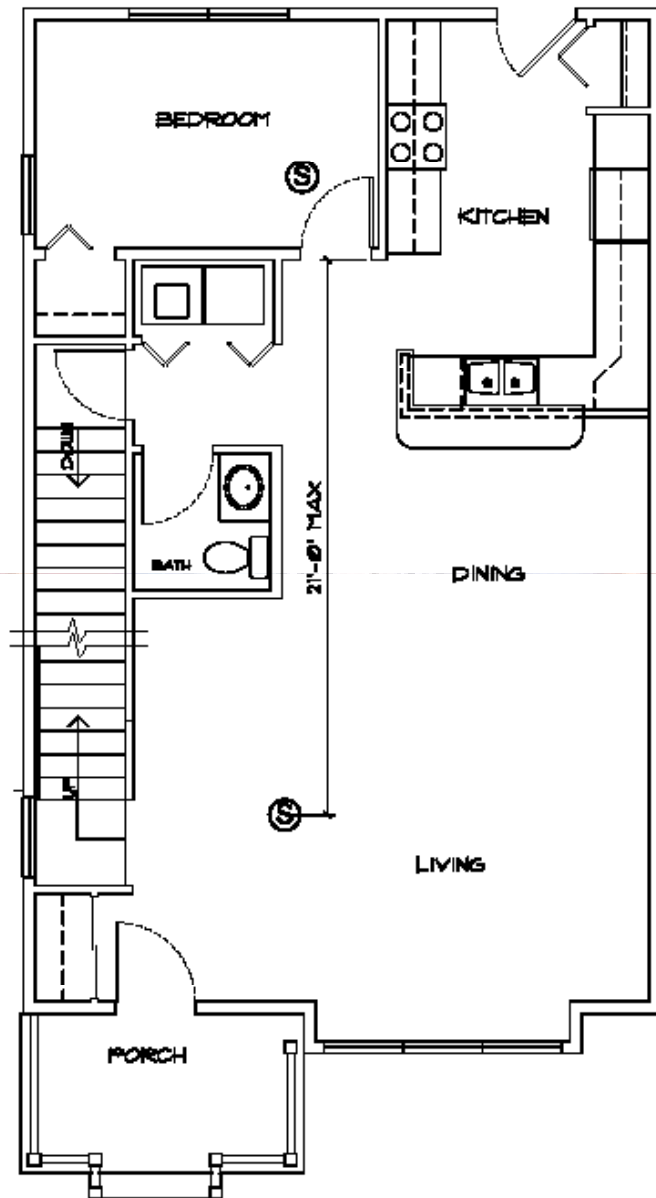
 TWO BEDROOM UNIT WITH REMOTE BEDROOMS
NOT TO SCALE



○ ONE BEDROOM
NOT TO SCALE

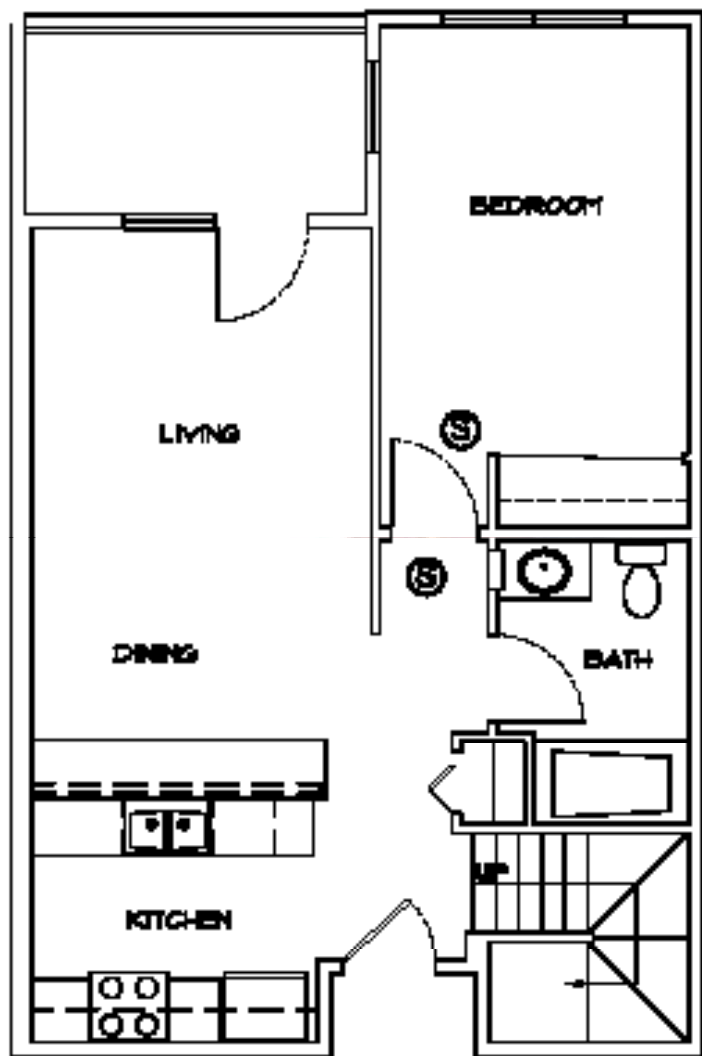


 EFFICIENCY/STUDIO
NOT TO SCALE

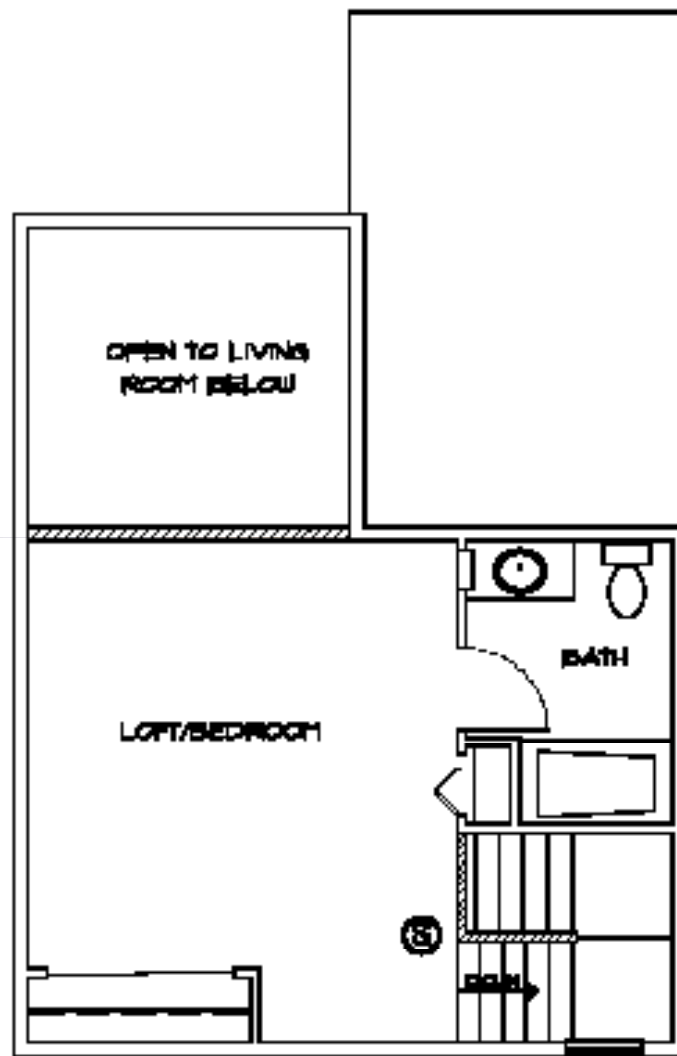


UNIT WITH ONE BEDROOM WITH DIRECT ACCESS FROM THE KITCHEN

NOT TO SCALE

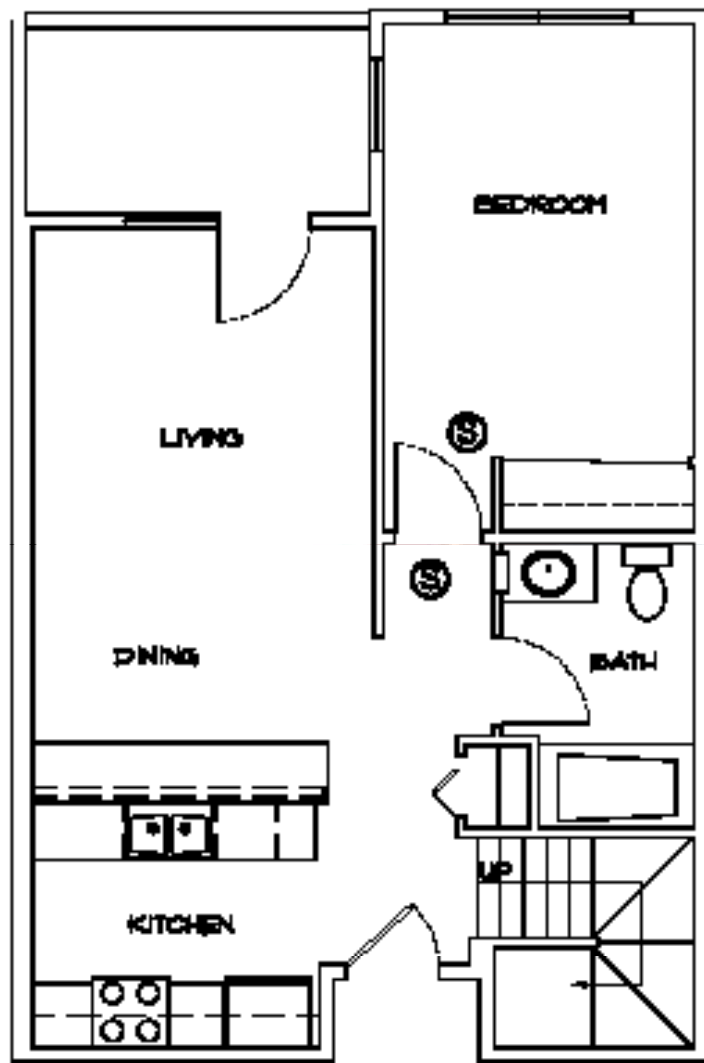


FIRST FLOOR

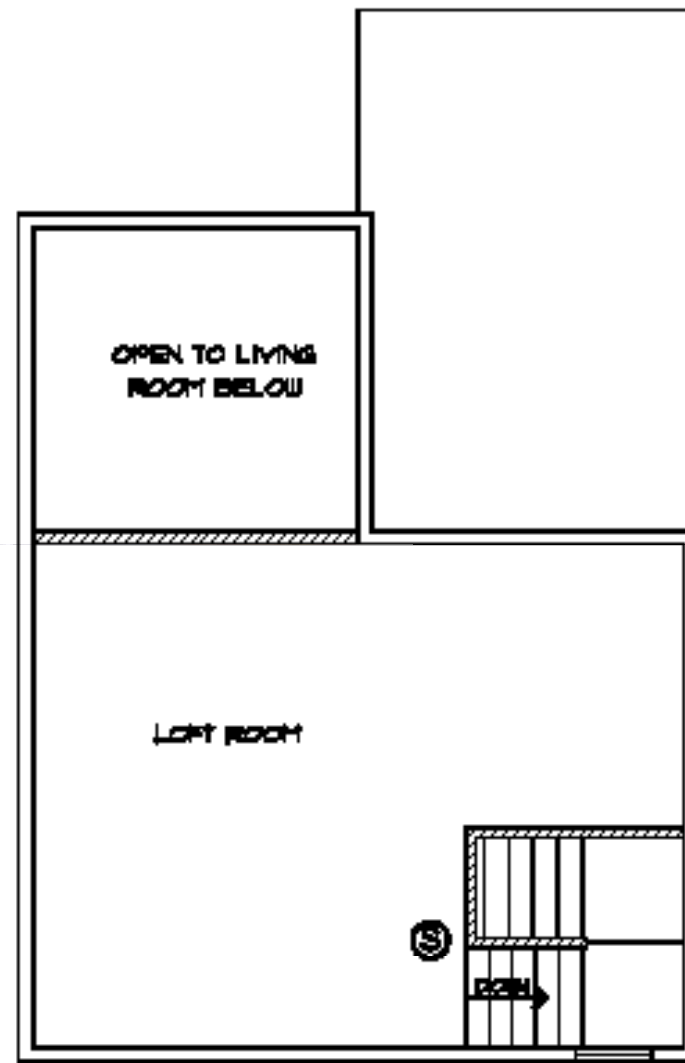


LOFT LEVEL

LOFT APARTMENT WITH BEDROOM AT LOFT LEVEL
 NOT TO SCALE

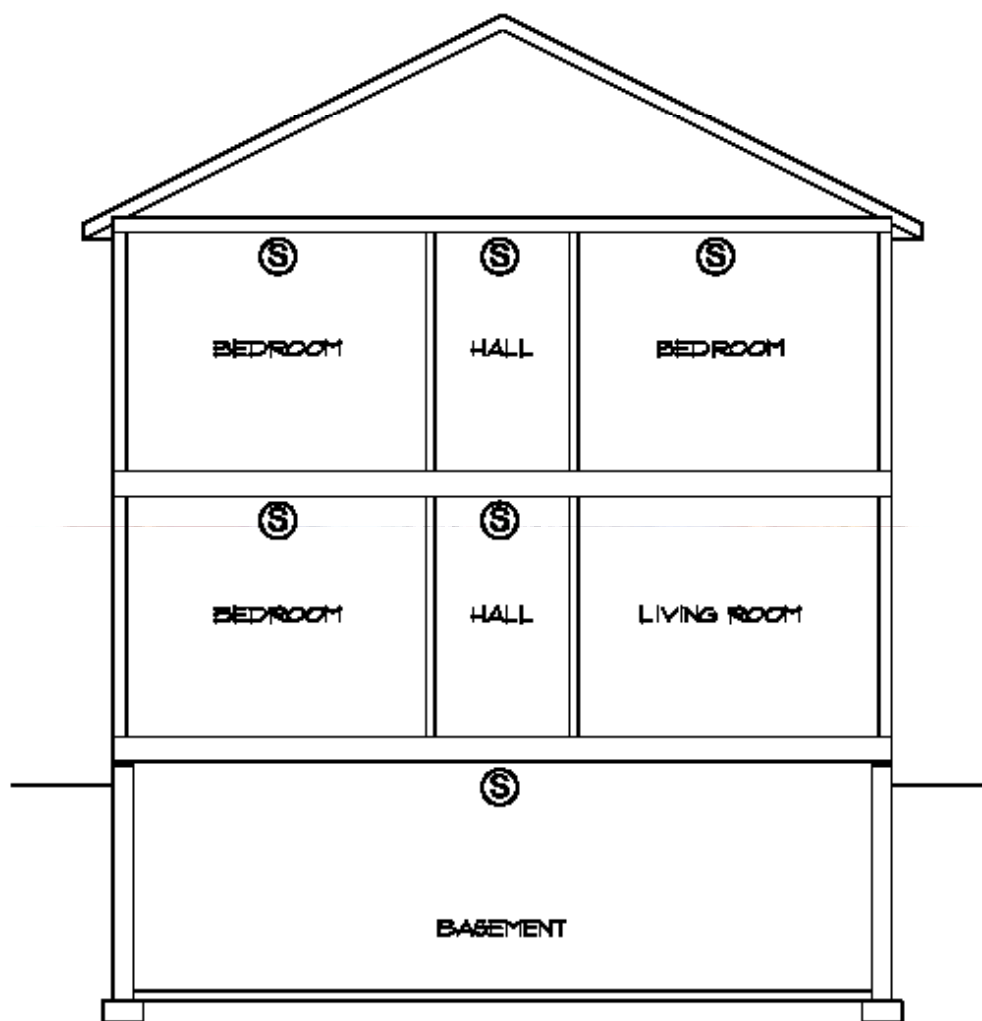


FIRST FLOOR



LOFT LEVEL


 LOFT APARTMENT WITH NO BEDROOM AT LOFT LEVEL
 NOT TO SCALE



CROSS SECTION SHOWING SMOKE
ALARMS ON EACH LEVEL



NOT TO SCALE

Fire Safety Education is Required

- **NEVER** tamper with smoke alarms!
- Cooking safety
- Evacuation planning
- Grilling safety and rules
- Fire extinguishers
- Candles and smoking materials
- Other important tips



Important Dates

- Multi-family dwellings: August 15, 2009
- Owner occupied single-family dwellings:
August 15, 2010

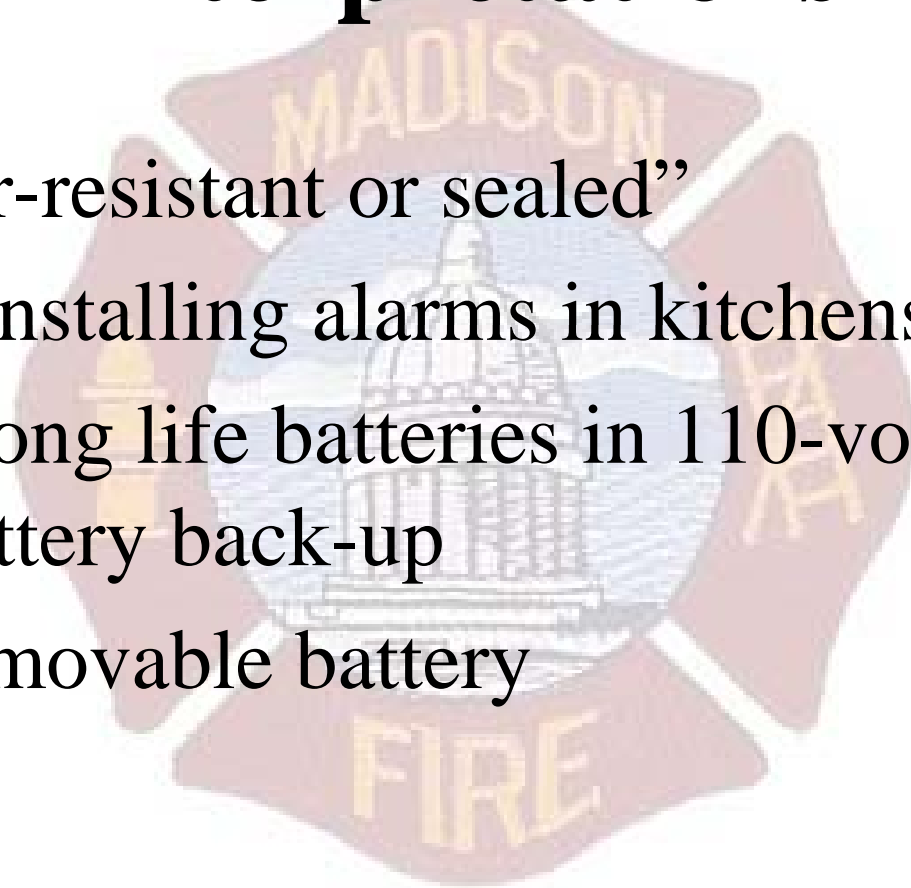


Enforcement

- Compliance will be verified through: routine fire inspections, programmed minimum housing inspections, complaints, post fire inspections and/or alterations.
- Tenant citations for tampering with alarms will follow the same process.
- Owner occupied compliance will be verified at point of sale.
- \$172.00+

Interpretations

- “tamper-resistant or sealed”
- Avoid installing alarms in kitchens
- 9-volt long life batteries in 110-volt alarms with battery back-up
- Non-removable battery



FAQ

- If my kitchen is right outside the bedroom, should I install a smoke alarm in the kitchen?
- Do the new smoke alarm rules apply to condominiums?
- How do people dispose of old alarms?
- When do owners of single-family dwellings have to comply?
- What is the enforcement process for single-family dwellings?
- Can I install long-life batteries in 110-volt alarms with battery back-up?

Additional Assistance

- **Madison Fire Department – 266-4420**
 - Education or training: Ask to speak with a Community Education officer
 - Inspection or code question: Ask to speak with a Fire Inspector
- **Building Inspection Division – 266-4551**
 - Ask to speak with a Housing Inspector

Q & A



