



California State Fire Marshal **CODE INTERPRETATION**

Date Issued	3/10/09	Interpretation	08-054
Topic	Smoke Detection in R-1 High Rise		
Code Section(s)	2001 CFC Section 1006.2.9.1; 1006.2.12		
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1. Section 1006.2.9.1.3

Smoke detectors shall be provided in all common areas and interior corridors (for SFM) of Group R, Division 1 occupancies with an occupant load of 10 or more.

Section 1006.2.9.1.4

Heat detectors shall be provided in all common areas such as recreational rooms, laundry rooms, furnace rooms, and similar areas (For SFM) of Group R, Division 1.

If an R-1 is built above a Group B occupancy and below the Group B is an underground parking - Group S, does the Section 1006.2.9.1.3 and 1006.2.9.1.4 apply in these occupancies?

B occupancies: No, where the Group R-1 occupancy is properly separated from the Group B occupancy in accordance with CBC, Section 302, and the Group B occupancy is not utilized as a portion of the egress system for the R-1 occupancy. However, smoke detectors shall be installed in the corridors of the B occupancy where the corridor egress system also serves the R-1 occupancy.

S occupancies: No, where the R-1 is separated from the S occupancy in accordance with CBC, Section 311.2.2.1.

2. **In Group R occupancies there are typically trash rooms on each floor usually less than 100 square feet, do they require strobes?**

Generally small trash disposal rooms which are located on each floor would not require a fire alarm visible notification appliance.

3. **Section 1006.2.12.2 (High Rise Buildings)**

Section 1006.2.12.2.2

Smoke detectors shall be provided in accordance with Section 1006.2.12.2.2. Smoke detectors shall be connected to an automatic fire alarm system. The actuation of any detector required by Section 1006.2.12.2.2 shall operate the emergency voice alarm signaling system and shall place into operation all equipment necessary to prevent the re-circulation of smoke. Smoke detectors shall be located as follows:

1. **In every mechanical equipment, electrical transformers, telephone equipment, elevator machine or similar room, and in elevator lobbies. Elevator lobby detectors shall be connected to an alarm verification zone or be listed as a releasing device;**
2. **Smoke detectors for the control of air conditioning and ventilating systems shall be located as required by NFPA 90A, Chapter 4, and installed per UFC Standard 10-2, and**
3. **For Group R Division 1 Occupancies, in all interior corridors serving as a means of egress for an occupant load of 10 or more.**

Are smoke detectors required in common use areas of new Group R -1 high-rise buildings based on the criteria above?

No, California Fire Code, Section, 1006.2.12.2.2 (1 & 2) specifies the general requirements where smoke detectors are required to be installed in all new and renovated high-rise buildings. Section 1006.2.2.2 (3) specifies where additional smoke detectors are required to be installed in Group R-1 occupancies located in high-rise buildings.

The common area smoke detection requirements specified in Section 1006.2.9.1.3 do not apply to new Group R-1 high-rise buildings.