

DIVISION IV STANDARDS FOR AUTOMATIC SPRINKLERS AND EXTINGUISHER SYSTEMS

Section 4.01 Performance Criteria

This standard for an automatic sprinkler system is designed using the following performance criteria:

- A. To allow building occupants to escape safely.
- B. To prevent flashovers.
- C. To limit internal structural damage and confine the fire to the area of origin.
- D. To limit the number of fire personnel needed to combat a fire.
- E. To consider the arrival time for fire personnel due to inaccessibility or bad weather.
- F. To consider the availability of an adequate water supply at the residence.

All automatic fire extinguishing systems, standpipe systems, alarms, smoke and heat ventilators, smoke removal systems, hood and duct systems, or other fire and life safety systems or appliances shall be designed, installed, inspected, tested and maintained in compliance with National Fire Protection Association (NFPA) standards. Copies of all inspection reports shall be provided to the Squaw Valley Fire Chief.

Section 4.02 Fees

The cost of inspection and plan review by the Squaw Valley Fire Department shall be the responsibility of the developer. Billing will be on a time and materials basis.

Section 4.03 Structures Requiring Automatic Fire Sprinklers and/or Fire Extinguishing Systems

The following requirements shall be added to the requirements of the latest revision of the California Building Code (CBC) and California Fire Code (CFC), as adopted by Placer County. The following categories shall have installed throughout the structure a supervised, automatic fire sprinkler and/or fire extinguishing system:

- A. All new buildings, except as exempted by this Section or by the Fire Chief's discretion using the latest version of the CFC.

As defined by the CBC, occupancy types include, but are not limited to, the following:

- 1. Group A Divisions 1, 2, 2.1, 3, 4 (Assembly)
- 2. Group B (Business)
- 3. Group E Divisions 1, 2, 3 (Educational)
- 4. Group F Divisions 1, 2 (Factory, Industrial)
- 5. Group H Divisions 1, 2, 4, 7 (Hazardous)
- 6. Group I Divisions 1.1, 1.2, 2, 3 (Institutional)

7. Group M (Mercantile)
 8. Group R Divisions 1, 2, 3, 6 (Residential) residential dwelling units as described in Items C, D, and E, below
 9. Group S Divisions 1, 2, 3 (Storage)
 10. Group U Division 1 (Utility)
- B. All existing buildings, other than one- or two-family dwellings, where the floor area affected by the new construction exceeds 20 percent of the existing floor area.
- C. New construction in or to a one- or two-family dwelling which exceeds 20 percent of the floor area existing prior to the new construction in a location where the water supply is not capable of delivering a minimum fire flow of 1,000 gallons per minute.
- D. New construction in or to a one- or two-family dwelling which exceeds 20 percent of the floor area existing prior to the new construction in a location where access by fire apparatus is compromised.
- E. New construction in or to an existing one- or two-family dwelling which exceeds 20 percent of the floor area existing prior to the new construction, where the resulting floor area is greater than 4200 square feet, (including both Group R Division 3 (single-family dwelling-residential living space) and Group U Division 1 (garage) occupancies.
- F. Demolition of an existing building or residence and replacement with a new or substantially new structure. (EXCEPTION: A building or residence that has been damaged by fire, flood, avalanche, mudslide, or other calamity, may be reconstructed without a fire sprinkler system, unless sprinklers would be required by one of the conditions in the foregoing paragraphs.)

Floor area of a building shall be calculated utilizing the same method as that used by the Placer County Building Department. The floor areas of all buildings on a single lot shall be combined into one total figure for the purpose of determining floor area of a given occupancy type.

A change in occupancy may call for the installation of a fire sprinkler system conforming to N.F.P.A. standards for the new use. For example, a change in occupancy from Group M to Group B will call for a sprinkler system.

[Amended by Ord. 91-2, 98-1, 2007-05]