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## TITLE 24 ELEVATORS: BUILDING MATERIALS AND SYSTEMS

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# IR 30-1

### References:

- Title 24, CCR, Part 2 - California Building Code (CBC)
  - 2001 CBC: Table 6-A and Section 3003.5
  - 2007 CBC: Sections 707.14 and 3002
  - 2010 CBC: Sections 708 and 3002
- Title 24, CCR, Part 3 - California Electrical Code (CEC)
  - 2004 CEC: Section 800.51
  - 2007 and 2010 CEC: Article 620

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### Discipline: Structural

This Interpretation of Regulations (IR) is intended for use by the Division of the State Architect (DSA) staff, and as a resource for design professionals, to promote more uniform statewide criteria for plan review and construction inspection of projects within the jurisdiction of DSA which includes State of California public elementary and secondary schools (grades K-12), community colleges and state-owned or state-leased essential services buildings. This IR indicates an acceptable method for achieving compliance with applicable codes and regulations, although other methods proposed by design professionals may be considered by DSA.

This IR is reviewed on a regular basis and is subject to revision at any time. Please check the DSA web site for currently effective IRs. Only IRs listed in the document at <http://www.dgs.ca.gov/dsa/Resources/IRManual.aspx> at the time of plan submittal to DSA are considered applicable.

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**Purpose:** The purpose of this Interpretation of Regulations (IR) is to clarify the requirements for the construction materials and the fire protection systems required for elevator hoist ways.

**Scope:** All elevators reviewed by DSA for applicable code compliance.

### 1. PROJECT DESIGN REQUIREMENTS:

- 1.1 **Materials:** Elevator hoist ways shall either be constructed of non combustible materials or the sides of the hoistway facing the elevator cab shall have a maximum flame spread rating of 25 and a maximum smoke developing rating of 50.
- 1.2 **Electrical Wiring:** Electrical wiring shall meet or exceed the minimum requirements of the applicable California Electrical Code (CEC) for fire resistive construction, with penetration protection per 2010 CBC, Section 713.4.2.1 (2007 CBC, Section 712.4.2.1) and 2010 CEC Section 620.21.
- 1.3 **Automatic Fire Sprinkler Systems:** Buildings with required automatic fire sprinkler systems will have a "side-wall" type of sprinkler installed a maximum of two feet above the bottom of the hoist way, but in no case shall the sprinkler be installed so as to be an obstruction to the elevator car at its lowest point of travel.  
  
An automatic fire sprinkler is not required at the top of an elevator hoist way constructed of non-combustible materials.
- 1.4 **Fire Alarm Requirements:** Smoke or Heat Detection is not required at the top of the elevator hoistway if there is no automatic fire sprinkler located at the top of the hoistway.
- 1.5 **Elevator/Stairway Configuration:** Elevators with cabs sized to accommodate ambulance gurneys are not required for two story buildings if the configuration of the stairways is such that the use of an ambulance gurney is feasible and approved by the Local Fire Authority and DSA. (See DSA [Policy 09-04](#) for Elevator Cab Size deviation procedures).