

3. The battery electrolyte solutions, where present, are corrosive liquids.

**608.7.2 Cabinet signage.** Cabinets shall have exterior labels that identify the manufacturer and model number of the system and electrical rating (voltage and current) of the contained battery system. There shall be signs within the cabinet that indicate the relevant electrical, chemical and fire hazards.

**608.8 Seismic protection.** The battery systems shall be seismically braced in accordance with the *International Building Code*.

**608.9 Smoke detection.** An approved automatic smoke detection system shall be installed in accordance with Section 907.2 in rooms containing stationary battery systems.

5. Pedestrian walkways and pedestrian tunnels exceeding 400 feet (122 m) in length shall be provided with means of egress so arranged that the maximum length of exit access travel to reach an exit does not exceed 200 feet (60,960 mm).

6. Means of egress from pedestrian walkways and pedestrian tunnels shall not be locked unless provisions for emergency egress are provided.

### SECTION 609 COMMERCIAL KITCHEN HOODS

[M] **609.1 General.** Commercial kitchen exhaust hoods shall comply with the requirements of the *International Mechanical Code*.

[M] **609.2 Where required.** A Type I hood shall be installed at or above all commercial cooking appliances and domestic cooking appliances used for commercial purposes that produce grease vapors.

### SECTION 610 MEZZANINES

**610.1 Conform to Building Code.** Mezzanines in buildings shall conform to the requirements of the Building Code.

### SECTION 611 PEDESTRIAN WALKWAYS AND PEDESTRIAN TUNNELS

**611.1 Installation and maintenance.** New pedestrian walkways and tunnels shall be constructed and maintained in conformance with the Building Code. Existing pedestrian walkways and pedestrian tunnels shall comply with the following:

1. Unless all buildings connected to them are protected throughout by approved automatic fire-extinguishing systems, pedestrian walkways and pedestrian tunnels shall, at a minimum, be separated from the interior of buildings by walls and self-closing doors constructed to form a barrier to limit the transfer of smoke.
2. The unobstructed width of pedestrian walkways and pedestrian tunnels shall not be less than 44 inches (1118 mm).
3. No combustible materials or decorations shall be located in pedestrian walkways or pedestrian tunnels. Interior wall, ceiling, and floor finishes shall comply with Chapter 8.
4. Pedestrian walkways and pedestrian tunnels that serve as required means of egress from attached buildings shall comply with Sections 1026 and 1027.

3. Group E occupancies used for student occupancy.
4. Group I occupancies.
5. Group R-1 and R-2 occupancies having dwelling units or guest rooms.

Openings required by this section shall have a minimum dimension of 30 inches (762 mm).

If any portion of the basement is located more than 75 feet (22.86 m) from required openings, the basement shall be provided with an approved automatic sprinkler system throughout.

**903.6.3 Existing rubbish and linen chutes.** Existing rubbish and linen chutes shall be protected with automatic sprinklers installed and maintained in conformance with Section 903.2.12.2.

## SECTION 904 ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS

**904.1 General.** Automatic fire-extinguishing systems, other than automatic sprinkler systems, shall be designed, installed, inspected, tested and maintained in accordance with the provisions of this section and the applicable referenced standards.

**904.2 Where required.** Automatic fire-extinguishing systems installed as an alternative to the required automatic sprinkler systems of Section 903 shall be approved by the fire code official. Automatic fire-extinguishing systems shall not be considered alternatives for the purposes of exceptions or reductions allowed by other requirements of this code.

**904.2.1 Commercial hood and duct systems.** Each required commercial kitchen exhaust hood and duct system required by Section 609 to have a Type I hood shall be protected with an approved automatic fire-extinguishing system installed in accordance with this code.

**904.2.1.1 Protection of existing cooking equipment.** Approved automatic fire-extinguishing systems shall be provided for the protection of existing commercial-type cooking equipment that produces grease-laden vapors.

**904.3 Installation.** Automatic fire-extinguishing systems shall be installed in accordance with this section.

**904.3.1 Electrical wiring.** Electrical wiring shall be in accordance with the *International Code Council Electrical Code Administrative Provisions*.

**904.3.2 Actuation.** Automatic fire-extinguishing systems shall be automatically actuated and provided with a manual means of actuation in accordance with Section 904.11.1.

**904.3.3 System interlocking.** Automatic equipment interlocks with fuel shutoffs, ventilation controls, door closers, window shutters, conveyor openings, smoke and heat vents, and other features necessary for proper operation of the fire-extinguishing system shall be provided as required by the design and installation standard utilized for the hazard.

**904.3.4 Alarms and warning signs.** Where alarms are required to indicate the operation of automatic fire-extinguishing systems, distinctive audible, visible alarms and

warning signs shall be provided to warn of pending agent discharge. Where exposure to automatic-extinguishing agents poses a hazard to persons and a delay is required to ensure the evacuation of occupants before agent discharge, a separate warning signal shall be provided to alert occupants once agent discharge has begun. Audible signals shall be in accordance with Section 907.10.2.

**904.3.5 Monitoring.** Where a building fire alarm system is installed, automatic fire-extinguishing systems shall be monitored by the building fire alarm system in accordance with NFPA 72.

**904.4 Inspection and testing.** Automatic fire-extinguishing systems shall be inspected and tested in accordance with the provisions of this section prior to acceptance.

**904.4.1 Inspection.** Prior to conducting final acceptance tests, the following items shall be inspected:

1. Hazard specification for consistency with design hazard.
2. Type, location and spacing of automatic- and manual-initiating devices.
3. Size, placement and position of nozzles or discharge orifices.
4. Location and identification of audible and visible alarm devices.
5. Identification of devices with proper designations.
6. Operating instructions.

**904.4.2 Alarm testing.** Notification appliances, connections to fire alarm systems, and connections to approved supervising stations shall be tested in accordance with this section and Section 907 to verify proper operation.

**904.4.2.1 Audible and visible signals.** The audibility and visibility of notification appliances signaling agent discharge or system operation, where required, shall be verified.

**904.4.3 Monitor testing.** Connections to protected premises and supervising station fire alarm systems shall be tested to verify proper identification and retransmission of alarms from automatic fire-extinguishing systems.

**904.5 Wet-chemical systems.** Wet-chemical extinguishing systems shall be installed, maintained, periodically inspected and tested in accordance with NFPA 17A and their listing.

**904.5.1 System test.** Systems shall be inspected and tested for proper operation at 6-month intervals. Tests shall include a check of the detection system, alarms and releasing devices, including manual stations and other associated equipment. Extinguishing system units shall be weighed and the required amount of agent verified. Stored pressure-type units shall be checked for the required pressure. The cartridge of cartridge-operated units shall be weighed and replaced at intervals indicated by the manufacturer.

**904.5.2 Fusible link maintenance.** Fixed temperature-sensing elements shall be maintained to ensure proper operation of the system.