



Inspectors please familiarize yourself with these new sections of NFPA and ASME and how it will pertain to field inspections

**NFPA 72 (2019v)**

**N 21.3.7\***

**Fire Alarm Initiating Device(s) Inside Elevator Hoistways.**

Fire alarm initiating device(s) required to be installed inside an elevator hoistway by other sections of this Code or by other governing laws, codes, or standards **shall be required to be accessible for service, testing, and maintenance from outside the elevator hoistway.**

**ASME 17.1 (2019v)**

**2.8.2.4**

In jurisdictions enforcing the NBCC or NFPA 72, **a means for testing and maintaining fire alarm initiating devices without having to enter the hoistway shall be permitted.** When this means is provided, **it shall comply with either (a) or (b) below.**

(a) The means provided for air sampling shall comply with 2.8.3.1.4. [2.8.3.1.4 The means used for air-sampling smoke detection systems shall be permitted to be installed in hoistways, machinery spaces, machine rooms, control spaces, and control rooms for the purpose of detecting smoke in accordance with 2.27.3.2, Phase I Emergency Recall Operation by Fire Alarm Initiating Devices, and shall not encroach upon required clearances. Sensing elements penetrating the hoistway enclosure shall have a fire resistance rating conforming to the requirements of the building code.]

(b) The means provided by enclosing a fire alarm initiating device within a protective space shall comply with the following:

(1) **Hoistway penetration for access panels** used for installing, testing, and servicing fire alarm initiating devices shall comply with 2.1.1.1.3.

[2.1.1.1.3 Hoistway enclosure openings shall be protected with entrances or access doors having a **fire protection rating conforming to the requirements of the building code.**]

(2) Access panels shall be rated and listed for the application for which they are installed and **shall have a maximum width of 400 mm (16 in.) and maximum height of 400 mm (16 in.). Access panels shall not swing into the hoistway.**

(3) Access panel doors shall be **self-closing and selflocking.** The key shall be Group 2 Security (see Section 8.1).

(4) The space that houses the detection device(s) **shall be furnished with protective guards (cages)** that will prevent accidental contact by a person or object with moving equipment within the hoistway. **No part of the protective guards (cages) shall be removable from outside the hoistway or from within the space between the access panel and the protective guards (cages).**

(5) **Protective guards (cages) shall separate the rest of the hoistway from the space containing the fire alarm initiating device. The guard (cage) shall be noncombustible openwork material that shall reject a ball 6 mm (0.25 in.) in diameter and be made from material equal to or stronger than 1.110 mm (0.0437 in.) diameter wire. The guard (cage) shall be supported so that when subjected to a force of 450 N (100 lbf) applied over an area 100 mm × 100 mm (4 in. × 4 in.) at any location, the deflection shall not reduce the clearance between the guard (cage) and any elevator equipment in the hoistway below 25 mm (1 in.).**

(6) Protective guards (cages) shall be installed so **that all required hoistway running clearances and beveling requirements are maintained. In no case shall the protective guards (cages) extend more than 400 mm (16 in.) inside the hoistway.**

(7) Prior to installation of fire alarm initiating devices or other fire detection systems in hoistways, layout drawings indicating acceptable installation locations for access panels and protective guards (cages) shall be coordinated with the elevator installer.

The spot-type detectors will not require air sampling. Only air-sampling type detectors will require air sample ports. You will need to check with the fire service installer on what type of detection is being used. Also refer to NFPA 72 (2019v) section 17.7.3 Location and Spacing of detectors, this will give you an idea of where the access door should be.

This is one example I found of a wire cage with the fire access door that could be used

