

Know Your Code:

ASME **A17.1**

Does Your Door System Meet The Standard?

The American Society of Mechanical Engineers 2019 Edition ASME A17.1

2.11.6.3 covers the need for unrestricted egress from an elevator once its doors are open, and compliance of any additional doors or devices that are intended to guard against the migration of smoke in or out of the hoistway.

Opening of Hoistway Doors

Egress from the interior of the car to any elevator landing by means of the car and hoistway doors shall be unrestricted once the car and hoistway are open. Additional doors or devices that are not part of and do not function with the elevator but are provided in lieu of an enclosed elevator lobby to guard against the migration of smoke in or out of the hoistway shall comply with the following:

- a. The building code.
- b. The additional door or device, in any position, shall not interfere with the function and operation of the elevator.
- c. The additional door or device shall not interfere with the fire-resistance rating and operation of the hoistway entrance. Direct or mechanical attachment (i.e. welding, holes, bolts, or rivets) shall not be made to hoistway doors or frames, unless the additional door or device and the hoistway elevator entrance are listed as a complete assembly by a certifying organization.
- d. When in the closed position, additional doors or devices shall not prevent firefighters from visually observing the elevator landing (lobby) when the elevator hoistway door is no more than one-quarter open.
- e. Additional doors or devices shall be permitted to be deployed only at those hoistway openings of elevators where fire alarm initiating devices used to initiate Phase I Emergency Recall Operation associated with that elevator have been activated.



Total Door Systems SafeFrame™

Total Door Systems SafeFrame™ provides a complete, integrated smoke containment system that exceeds the testing and rating requirements for elevator hoistways and eliminates the need for elevator lobbies.

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- Where can you find the code?

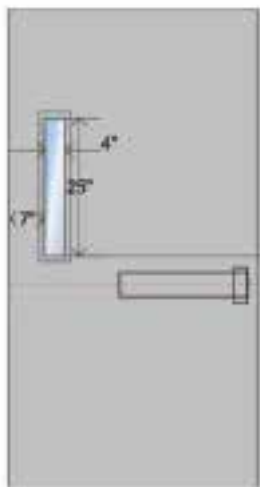
ASME A17.1

2.11.6 Opening of Hoistway Doors

2.11.6.1

This requirement was revised in ASME A17.1-2013/CSA B44-13 to provide requirements (when permitted by the building code) for additional doors and similar devices mounted adjacent to the elevator hoistway opening to minimize smoke migration into or out of the elevator hoistway. The devices that are currently being used affect the operation of the elevator. It is important to address these potential safety and certification issues.

It is important to know the direction of the elevator opening for the placement of the vision panel. There must be a vision panel within the first quarter of the elevator opening (see examples below). For a 20-minute U LIOC fire door, in addition to the 11S" label, the glass should, at a minimum, be ceramic fire-rated glass.



**Elevator opening
left to right**



**Elevator doors
opening center**



**Elevator opening
right to left**

