

# Know Your Code:

## ASME A 17.1

# Does Your Door System Meet The Standard?

### The American Society of Mechanical Engineers 2016 Edition ASME A 17.1

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 nor function with the elevator but are provided in lieu of an enclosed elevator lobby in order 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. Additional doors or devices when in the closed position 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 the 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.

Total Door Systems combines perfectly integrated functionality, unmatched security and life protection, with infinite design possibility.

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# Know Your Code: **ASME A 17.1**

## - Where can you find the code?

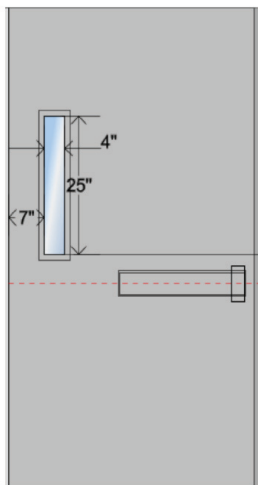
### **ASME A 17.1**

#### **2.11.6 Opening of Hoistway Doors**

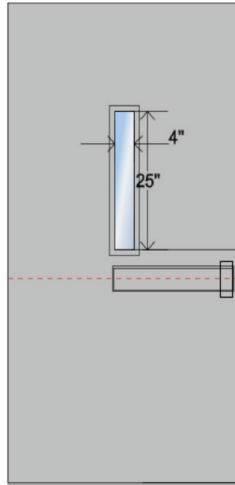
##### **2.11.6.1**

This requirement was revised in ASME A 17.1-2013/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.

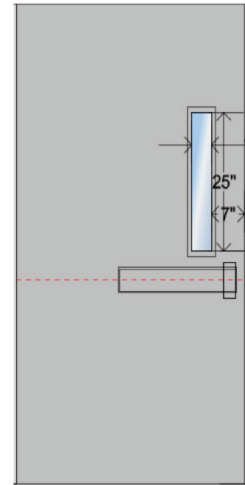
It is important to know the direction of the elevator opening for the placement of the vision panel. There must be a vision panel within the first quarter of the elevator opening (see examples below). For a 20-minute UL10C fire door, in addition to the "S" label, the glass should, at a minimum, be ceramic fire-rated glass.



Elevator opening left  
to right



Elevator doors  
opening in center



Elevator opening right  
to left

