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2



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3



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4



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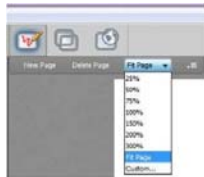
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7



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8



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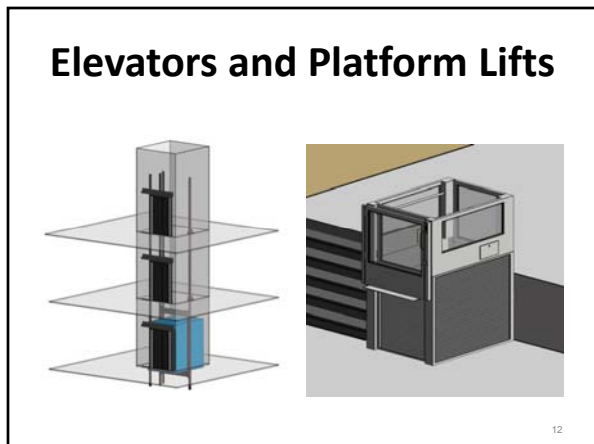


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9







Session Agenda

- Where Vertical Access is required
- Technical Provisions
- Who Is the American Society of Mechanical Engineers (ASME)
- Elevator Myths and Facts
- ASME A17.1 and A18
- What is in the Future?

13

Where Vertical Access Is Required

14

Where Required (§206.2.3 & §F206.2.3)

- New construction - vertical access between floors is required in most multi-story facilities (some exceptions)
- Passenger elevators provide vertical access between stories and to mezzanines

15

Where Required (§206.6 & §F206.6)

- Each passenger elevator provided (whether required or not) must comply with the standards
- Limited-use/ limited- application elevator or LULA permitted in facilities not required to have an accessible route between stories or to mezzanines
- LULAs can also be used as an alternative to permitted platform lifts and private residence elevators

16

Vertical Access Exception

- Applies to private buildings or facilities that are less than three stories or that have less than 3000 square feet per story unless the building or facility is -
 - a shopping center
 - a shopping mall
 - the professional office of a health care provider
 - a terminal, depot or other station used for specified public transportation
 - an airport passenger terminal
 - another type of facility as determined by the Attorney General

17

Vertical Access Exception

- Applies only to privately owned commercial facilities and places of public accommodation under Title III of the ADA (28 CFR, Part 36.)
 - Cannot be used by Federal, State, or local government facilities (vertical access required in facilities of two or more stories)
- Exception for vertical access to two story Federal, State, or local government facilities where -
 - One story has occupant load of five or fewer persons
 - No public use space

18

Platform Lifts (§206.7 & §F206.7)

Use in new construction limited to:

- Performance areas
- Incidental small non-public spaces
- Judicial spaces such as jury boxes and witness stands
- Where existing site constraints make them the only option
- Guest room and residential dwelling units
- Amusement Rides
- Play areas
- Team player seating
- Recreational boating facilities and fishing piers and platforms

19

Platform Lifts (§206.7 & §F206.7)

- Permitted as a component of an accessible route in an existing building or facility

20

Elevators Type

Facility or Space

Elevator Type Permitted

Facilities required to provide an accessible route to stories/ mezzanines

- standard (§407)

Facilities not required to provide an accessible route to stories/mezzanines

- standard (§407) or LULA (§408)

Residential Dwelling Units

- standard (§407), LULA (§408), or private residence (§409)

Spaces that can be served by a platform lift

- standard (§407) or LULA (§408)

21

Technical Provisions

22

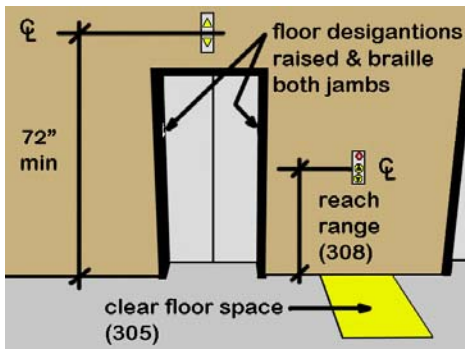
Reference Standards

§407.1, §408.1, and §409.1 of the Standards require compliance with the ASME A171.1 - 1999 or 2000 Edition of the Safety Code for Elevators and Escalators.

§410.1 of the Standards require compliance with the ASME A18.1 – 2003 Edition of the Safety Standard for Platform Lifts and Stairway Lifts.

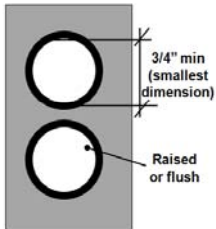
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Elevator Landing Requirements (§407.2)



24

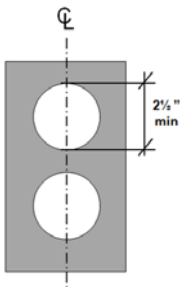
Call Controls (§407.2.1)



- Compliant as operable part
- Up button above down button
- Visual indication of call registered and call answered
- Raised from, or flush with, faceplate or, if provided, trim ring or ferrule

25

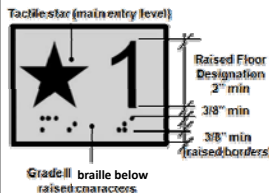
Hall Signals (§407.2.2)



- Required at each hoistway (including elevators with only 2 stops)
- Indicate car arrival and travel direction
- Visible indicators can be vertical or side-by-side
- Visible from area of hall call button, including those in cars
- Audible signals: one (up)/ two (down) or annunciator
- Frequency: 1500 Hz max. (300 – 3,000 Hz verbal annunciator)
- Signal level: 10dB min. above ambient, 80 dB max.

26

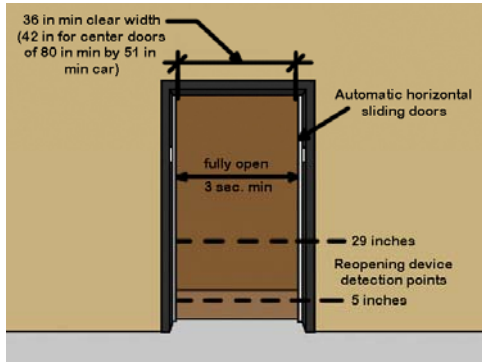
Hoistway Signs (§407.2.3)



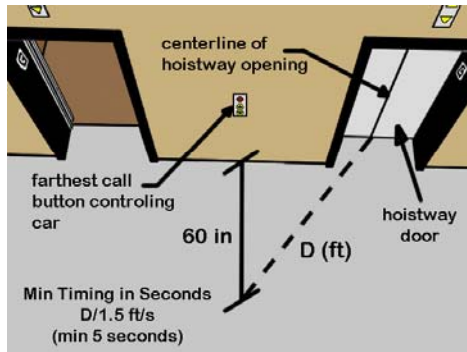
- Both jambs, 48" – 60" AFF (measured to raised character baseline)
- San serif characters raised 1/32" min.
- Compliant character proportion and stroke thickness

27

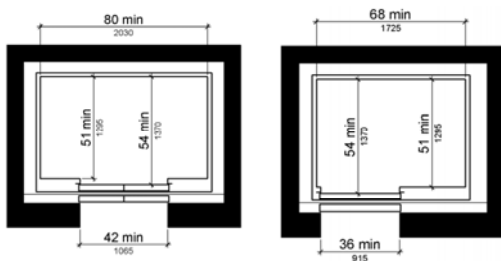
Elevator Door Requirements (§407.3)



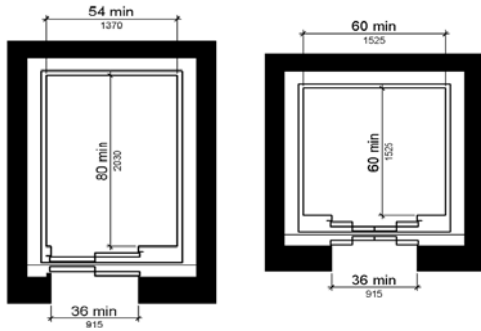
Door Timing (§407.3.4)



Minimum Car Dimensions (§407.4.1)

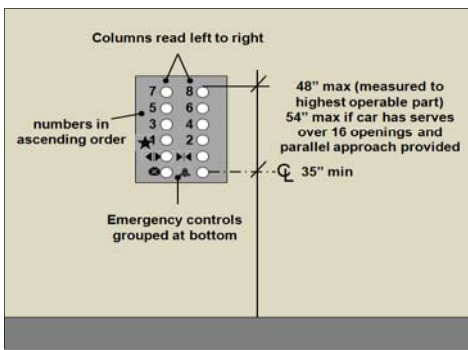


Other Car Configurations



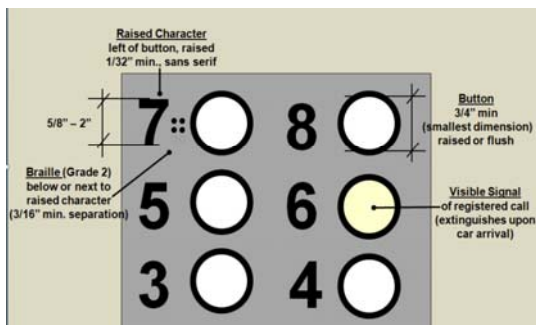
31

Elevator Car Controls (§407.4.6 and §407.4.7)



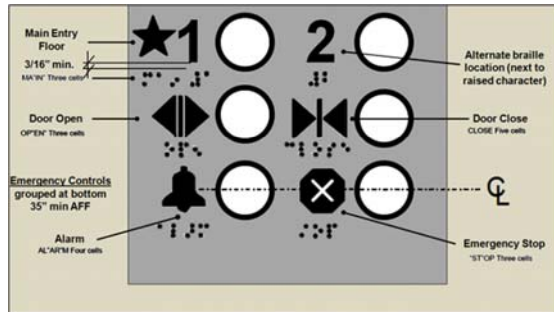
32

Control Panel (§407.4.7)



33

Control Panel (§407.4.7)



34

Alterations to Existing Elevators

- Existing elevators that are altered must comply
- Standards apply to those "elements" that are altered
- If alterations are made to an existing car, they must also be made to each elevator programmed to respond to the same hall call

35

Limited-Use/ Limited Application Elevators (§408)

- Permitted in facilities where an accessible route between stories or mezzanines is not required OR as an alternative to private residence elevators and platform lifts
- Cannot be used as a substitute for a standard elevator

36

Limited-Use/ Limited Application Elevators (§408)

- LULAs must comply with the requirements for standard elevators and applicable sections of the ASME safety code
- Smaller car sizes and alternative types of doors
- Doors must be positioned on the narrow wall of the LULA car
- Less complex than §407 elevators but more sophisticated than §410 platform lifts

37

Private Residence Elevators (§409)

- Permitted only within residential dwelling units
- Elevators located outside dwelling units in residential facilities must comply as standard elevators (§407).
- Similar to enclosed platform lift but have more specific door and control requirements, and must provide emergency communication features

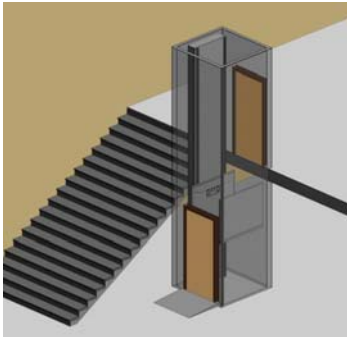
38

Platform Lifts (§410)

- Can be vertical or inclined (utilizing stairways)
- Exposed or enclosed in a shaft similar to private residential elevators
- Must have a platform of a minimum of 30 by 48 inches to accommodate wheeled mobility aids
- Lifts that utilize a chair instead of a platform are not permitted

39

Platform Lifts (§410)



Vertical Platform Lifts (§410)

- 12' max. travel distance
- 18 sq. ft. max. platform floor area
- Solid enclosure from lowest landing to 42" min. above uppermost landing
- Area under platform fully enclosed

Inclined Platform Lifts (§410)

- No max. travel distance
- 12 sq. ft. max. platform floor area
- Min. egress width as required by the applicable life safety code must be maintained
- Platform enclosure or passenger restraining arms required

Means of Egress

Where platform lifts are allowed to be part of an accessible means of egress, they must have standby power as required by the International Building Code (IBC) §1007.

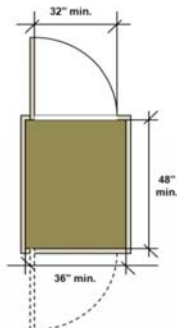
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Platform Lifts (§410)

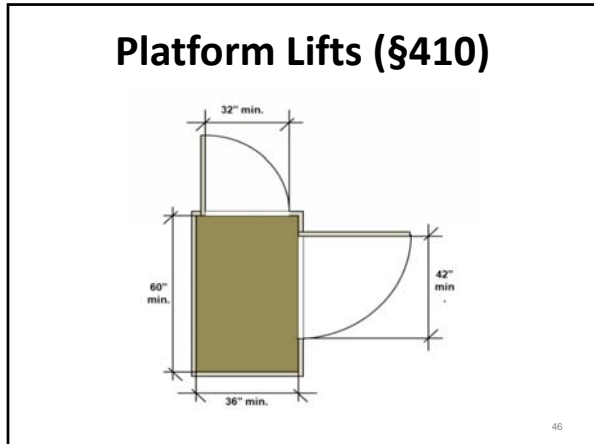
- Controls must meet operable parts, including reach ranges
- Doors and gates must be power-operated, and meet requirements for low-energy doors, including the referenced ANSI/BHMA standard (§404.3), and remain open for at least 20 seconds.
- Platform must meet clear floor space (§305) openings and change in level (§302, §303).

44

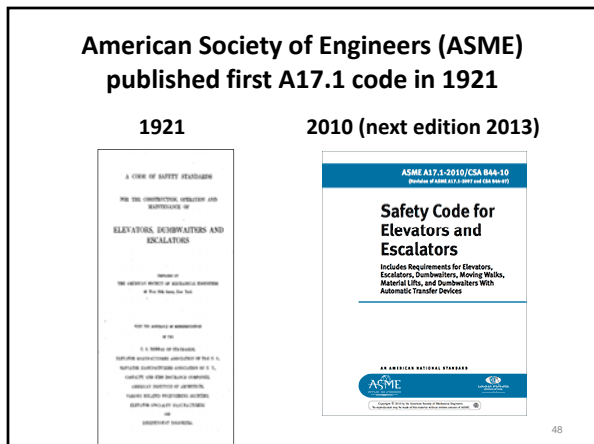
Platform Lifts (§410)



45







Became Binational Code in 2007



Note: Appendix E of ASME A17.1/CSA B44 contains accessibility requirements similar to ICC/ANSI A17.1.

Applicable in jurisdictions enforcing the National Building Code of Canada.

49

A17/B44 Committee



- Meets 3 times per year in US and Canadian locations
- 29 subcommittees (Working Committees)
- 7 separate codes/standards/guidelines
- Documents continually updated through Inquiries and Technical Revisions

50

Accessible Elevators

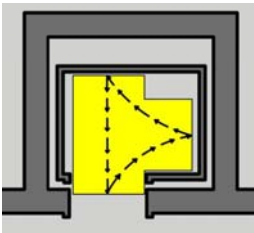
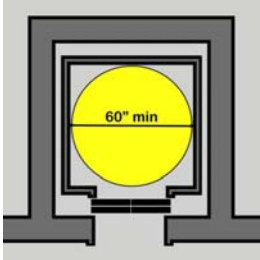
Myths and Facts

51

Car Size

MYTH: Wheelchair turning spaces are required in elevators

FACT: Turns are accomplished using the elevator landing with the doors open



52

Elevator Stop Buttons

MYTH: ADAAG requires emergency stop buttons in elevators

FACT: Emergency stop buttons are prohibited in new passenger elevators



ASME A17.1/CSA B44
2.26.2.5 Emergency Stop Switch.
An emergency stop switch shall not be provided on passenger elevators.

53

Door-open Timing

MYTH: Doors must stay open for 20 seconds

FACT: Doors may begin to close after 3 seconds

¹ Elevator
a. The elevator doors remain open for a period of time immediately responding. Provide doors close automatically if the door becomes obstructed by an object or person. Ensure the door opening at height of 5 inches and 25 inches above the finished floor that doors close immediately that is a car answering a call and the doors of that car start to close 3 seconds. (Standards §§ 4.1.3.5, 4.1.3.6, 4.1.3.7, 4.1.3.8, Fig. 20, 21.)
b. Although emergency communication is provided in the elevator car, a test of the emergency communication system shall be performed at least once every 30 days.

-from DOJ Project Civic Access investigation report

§407.2.7 Door Delay for Car Calls.
Elevator doors shall remain fully open in response to a car call for **3 seconds minimum.**

54

Handrails

MYTH: Handrails are required in elevator.



FACT: Required by neither national safety or accessibility codes/standards

Handrail design is meant to assist persons in motion, not persons standing and stationary.

55

ASME A17.1

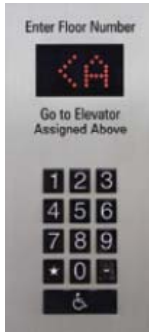
56

Destination-Oriented Elevator Systems



57

Destination Choice



- Desired destination floor entered on keypad in lobby
- Smartcard option in secure buildings
- No floor buttons in car

58

Destination Function Key



- Required by ICC/ANSI A117.1
- Activates audible/vocal cues for blind and visually impaired persons

59

Firefighters' Service



- Phase I returns car to designated floor
- Phase II provides firefighter control
- Activated by smoke detector in lobby, hoistway or machine room
- Critical for egress/evacuation use

60

Emergency Communication



61

Limited Use/Limited Application Elevator

- "Real" passenger elevator
- Regulated by A17.1/B44
- 18 sq. ft. maximum
- 25 ft. travel distance
- 30ft/min speed
- Cost effective in alterations
- Not restricted by ICC *International Building Code*



62

Private Residence Elevators

- Regulated by A17.1/B44
- **Never** permitted in commercial applications



63

ASME A18

64

ASME A18.1



- Vertical lifts permitted to penetrate floors in newer editions
- Inclined lifts
- Commercial and private residence requirements

65

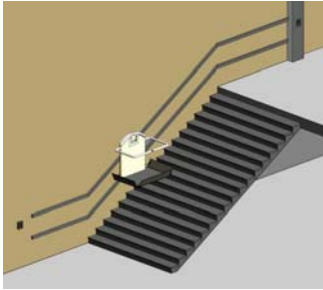
ASME A18.1



Enclosed and Unenclosed Platform Lifts

66

ASME A18.1



Incline Platform Lifts

67

What is in the Future?

68

Questions?

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69



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70

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71
