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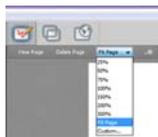
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Presenters



Marsha Mazz
US Access Board



Kim Paarlberg
International Code Council (ICC)

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Accessible Means of Egress

Session Agenda

- Planning
- MOE: Minimum Number
- Components of Accessible MOE
- Other Requirements

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Pre-Planning for Emergencies

- Fire evacuation plans
- Fire safety plans
- Lockdown plans
- Associated drills
- Worked out with the building owner/renter and the fire department
- Updated annually or when necessitated by changes
- Available for review



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Pre-Planning for Emergencies

Required in:

- Assembly
- Churches over 2,000 occupants
- Educational
- College dormitories
- High Hazard
- Institutional
- Hotels
- Group homes

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Pre-Planning for Emergencies

Required in:

- High-rise buildings
- Covered malls > 50,000 sq.ft.
- Mercantile & Factory (> 500 occupants on the 1st floor and basements or 2nd floor > 100 occupants)
- Underground buildings
- Assembly, Educational and Mercantile with atriums

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Fire Evacuation Plans

- Emergency routes
- Strategy - Evacuation or defend in place
- Critical equipment operation
- Assisted rescue procedures
- Verifying full evacuation
- Emergency responders
- Notification of occupants
- Notification of fire department
- Emergency voice/alarm communication system

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Fire Safety Plans

- Reporting emergency
- Evacuation or relocation of occupants
- Site plans – occupancy assembly point, fire hydrants, fire truck route
- Floor plans – exits, routes, areas of refuge, fire alarm, extinguishers, fire hoses
- Major fire hazards
- Persons responsible

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Emergency Drills

- Assembly – quarterly
- Business – annually
- Educational – monthly
- Factory – annually
- Institutional – quarterly on each shift
- Hotel - quarterly on each shift
- Apartments/dorms – 4 times annually
- Group homes - quarterly on each shift
- High rise - annually

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ADA & ABA Standards §207

Require compliance with the International Building Code (IBC) for accessible means of egress



2003 edition
(\$1007)

OR



2000 edition &
2001 Supplement
(\$1003.2.13)

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ADA & ABA Standards

What about compliance with later editions?

Permitted where equivalent or better (“equivalent facilitation” in the ADA Standards §103)



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Means of Egress (MOE)

A *means of egress* is an unobstructed path to leave buildings, structures, and spaces

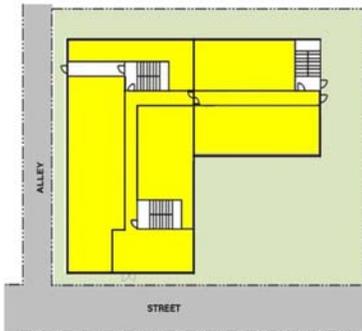
Comprised of:

- Exit Access
- Exits
- Exit Discharge



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MOE: Exit Access

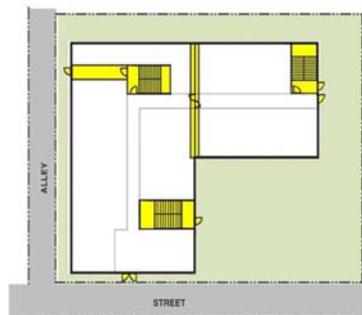


The path from any location in a building to an exit



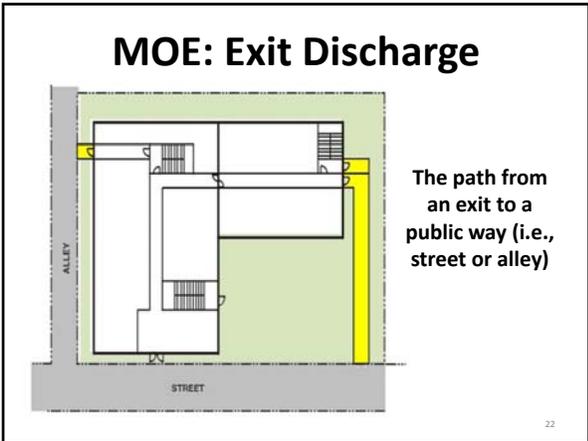
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MOE: Exits



Exits include doors to the outside, enclosed exit stairways, or horizontal exits

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Accessible MOE

An *accessible means of egress* is:
 “continuous and unobstructed way of egress travel from any point in a building or facility that provides an accessible route to an area of refuge, a horizontal exit, or a public way.” (IBC)

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Accessible MOE

Assisted rescue when necessary

- Areas of refuge
- Exterior areas for assisted rescue
- Defend in place (i.e., hospitals, jails)
- Elevators with standby power
- Two-way communication



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AMOE: Minimum Number

Minimum number of AMOE required:

- 1 - where 1 MOE required
- 2 - if more than 1 MOE required

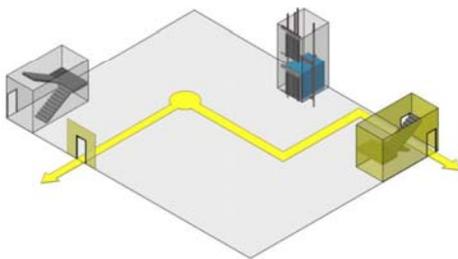
Exceptions:

- Existing facilities
- Areas not required to be accessible

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MOE: Minimum Number

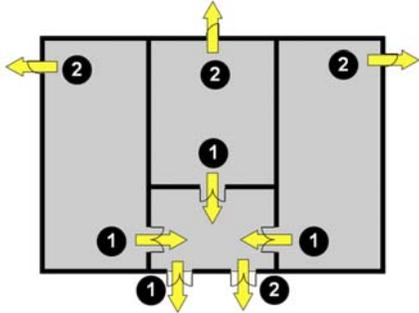
IBC requires 2 or more MOE in most facilities with few exceptions



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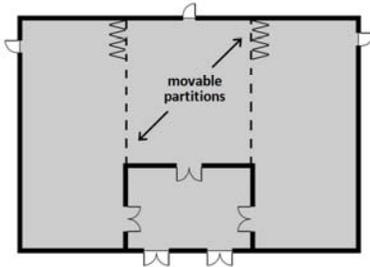
MOE: Minimum Number

MOE required from each space and room



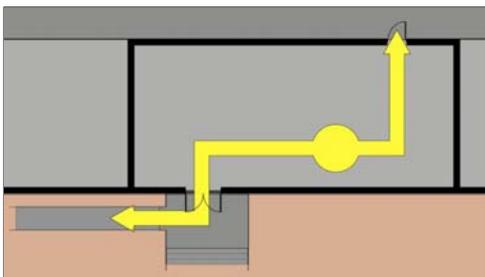
MOE: Minimum Number

Required MOE must be maintained under all conditions, including temporary divisions of space



MOE: Minimum Number

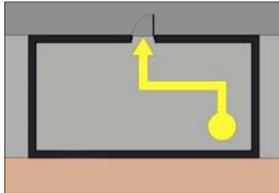
At least 2 MOE required



Example: 1 MOE/AMOE

1 MOE & 1 AMOE allowed under these conditions:

- mercantile occupancy; and
- 49 or fewer occupants; and
- 75' max. travel distance from farthest point



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Exit Discharge

- Accessible route to a public way or
- Interior area of refuge or
- Exterior area for assisted rescue

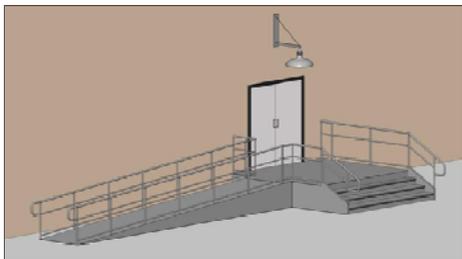


No exceptions for sprinklered buildings

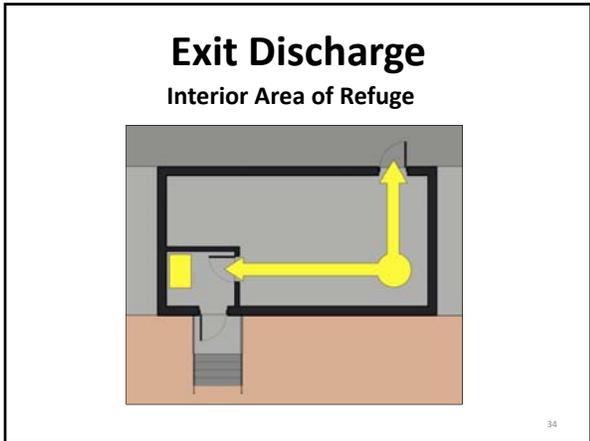
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Exit Discharge

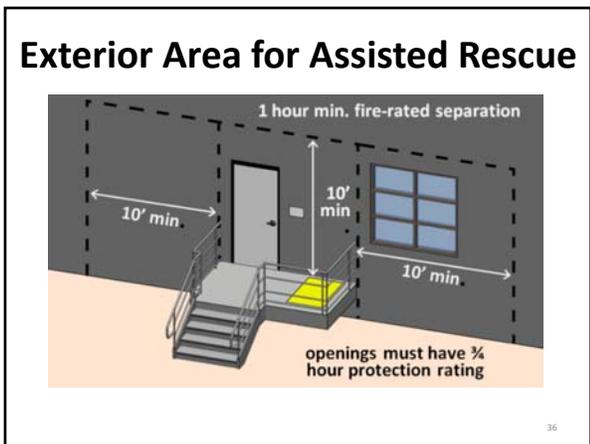
Accessible route to a public way



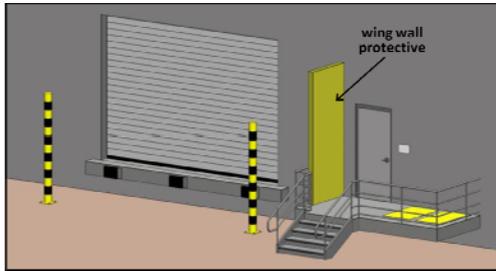
33







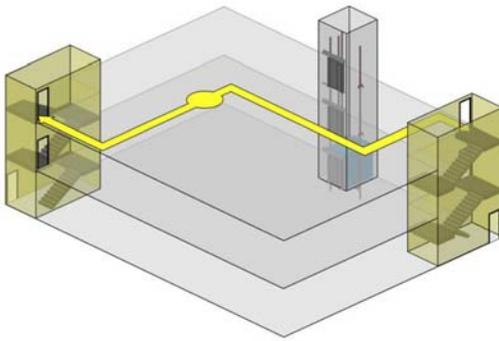
Exterior Area for Assisted Rescue



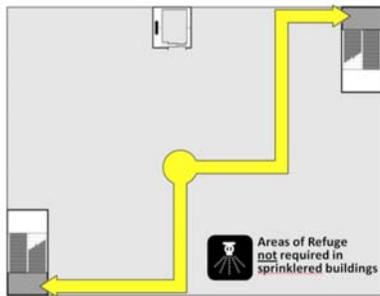
2012 IBC: New provision for alternative protection

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Exit Access: Upper Floors



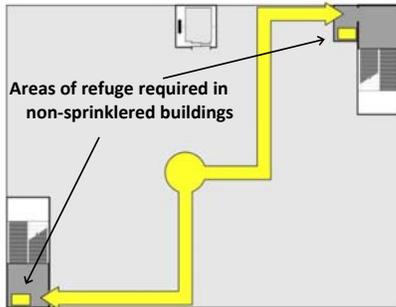
Exit Access: Upper Floors



AMOE on floors above or below level of exit discharge connect to exit stairs

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Exit Access: Upper Floors



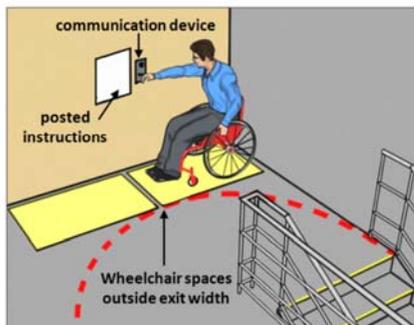
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Areas of Refuge

- on accessible route
- separated by a smoke barrier
- direct access to exit stairway, elevator with standby power
- 48" min. stairway width
- 30" x 48" space (1 for every 200 occupants) located outside general MOE path
- two-way communication system
- identification and instructional signage
- alternative: horizontal exit

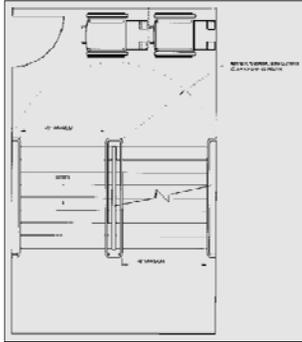
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Areas of Refuge



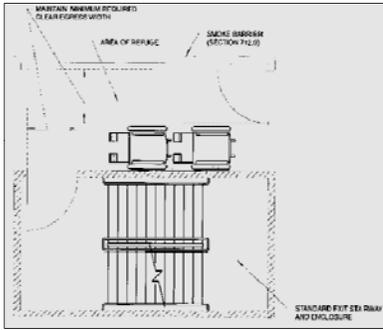
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Areas of Refuge



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Areas of Refuge



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Areas of Refuge

Not required in:

- buildings fully equipped with an automatic sprinkler system
- open parking garages
- open exit stairways between floors in buildings with NFPA13 systems
- apartment buildings



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Stairway Width (48" min)

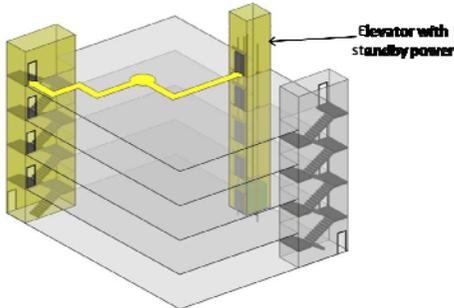
Stairway width 48" min. (measured between handrails) not required:



- in buildings fully equipped with an automatic sprinkler system
- where horizontal exits are provided

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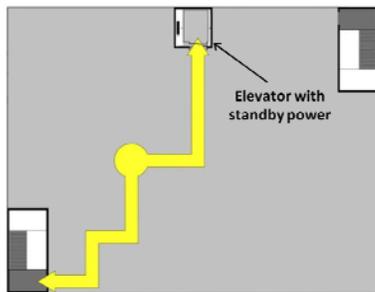
Elevator with Standby Power



Required in buildings 5 stories or higher

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Elevator with Standby Power

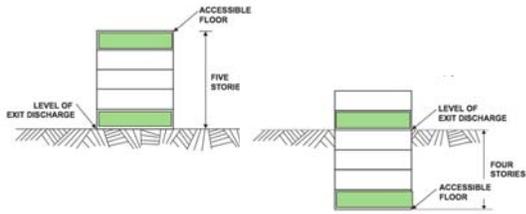


Counts as 1 of 2 accessible MOE

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Elevator with Standby Power

Required in buildings with 4 or more stories above or below the level of exit discharge



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Elevator with Standby Power

Exceptions for standby power:

- Sprinklered buildings with horizontal exits
- Ramps from each level

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Signage

- Elevators
- Exits
- Two way communication
- Areas of refuge
- Exterior areas for assisted rescue



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Protruding Objects

Standards limit protrusions from walls and posts along all circulation paths, including stairways



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Requirements New to the 2009 IBC

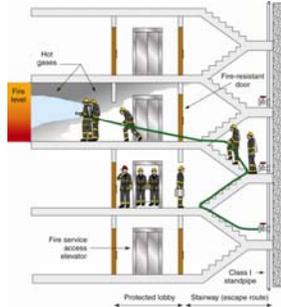
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Fire Service Access Elevators

- Required in buildings with floor >120 ft. above fire department vehicle access
- Must open into a fire service access elevator lobby and have direct access to an exit enclosure
- Numerous requirements: lobby protection, minimum lobby size, standby power, monitoring of elevator, protection of wiring, etc.

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Fire Service Access Elevators



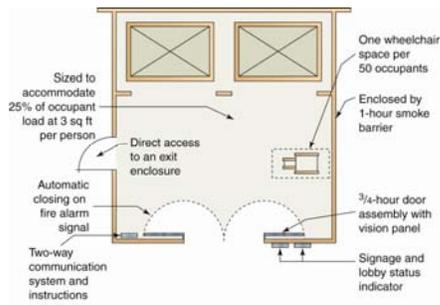
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Occupant Evacuation Elevators

- Used for occupant self evacuation prior to emergency recall
- Must open into a elevator lobby and have direct access to an exit enclosure
- Numerous requirements: lobby protection, minimum lobby size, lobby status indicators, standby power, monitoring of elevator, protection of wiring, etc.

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Occupant Evacuation Elevators



Occupant Evacuation Elevator Lobby

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Questions

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2010 ADA Standards for Accessible Design

March 1st

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