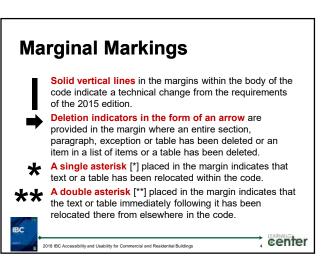
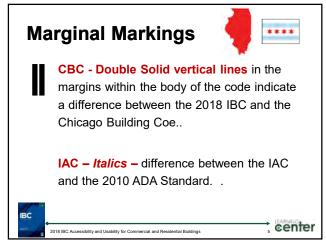


-

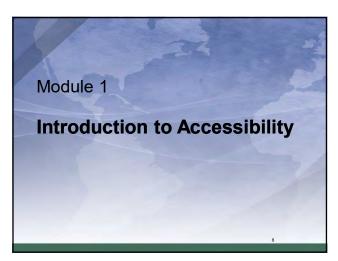






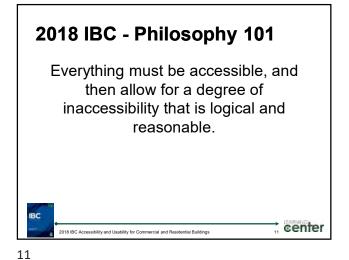






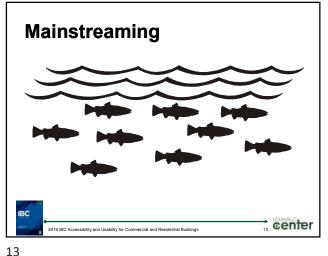
A Look at Accessibility Scope and Technical Requirements of Accessibility Provisions. Coordination with Federal Documents. Over the Repeated by the Compared and Residents Buildings Coefficients

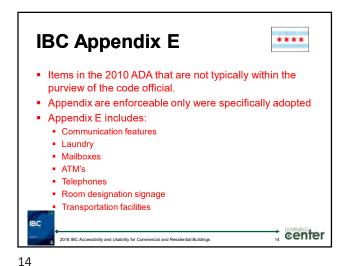
"A physical or mental impairment which substantially limits one or more of a person's major life activities."





12









American's with Disabilities Act (ADA) - 1990

- Civil Rights law against discrimination for persons with disabilities.
- Consists of five areas:
 - Title I Employment
 - Title II Accessibility public transportation and governmental services
 - Title III Accessibility to all other buildings
 - Title IV Telecommunication
 - Title V Miscellaneous



17

19

American's with Disabilities Act (ADA) - 1990

Scoping and technical requirements found in:

- Originally in 1991 -
 - American's with Disabilities Act Accessibility Guidelines (ADAAG).
 - Uniform Federal Accessibility Standards (UFAS).
- Currently –

18

20

- 2010 ADA Standard for Accessible Design
- Previously called the 2004 ADA/ABA Accessibility Guidelines

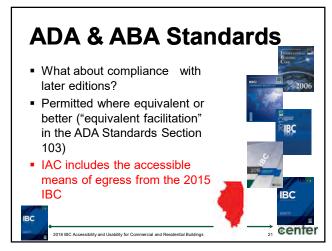


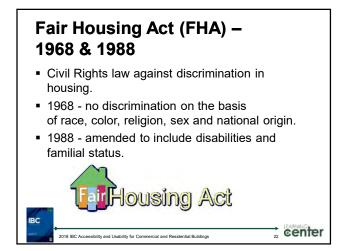
2010 ADA Standard for **Accessible Design**

- Dept. of Justice adopted July 23, 2010.
- Published in Federal Registry on Sept. 15, 2010.
- Requirements were mandatory for new construction started after March 15, 2012.



ADA & ABA Standards §207 Require compliance with the International Building Code (IBC) for accessible means of egress OR 2003 IBC 2003 IBC 2000 with Section 1007 2001 Supplement Section 1003.2.13 center





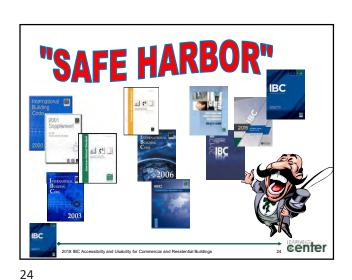
21

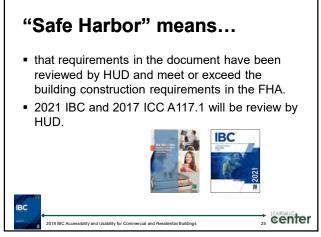
23

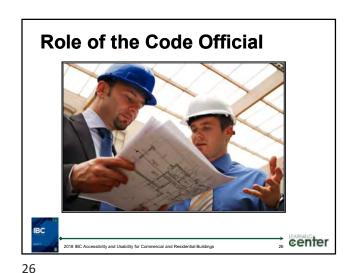
Fair Housing Act

- Covers all housing built for first occupancy after March 13, 1991.
- Scoping and technical requirements found in the Fair Housing Accessibilities Guidelines (FHAG).









Environmental Barriers Act (EBA)



- The EBA is an Illinois anti-discrimination law for person with disabilities
- The scoping and technical for buildings is in the Illinois Accessibility Code (IAC)
- The Capital Development Board supports the EBA and the IAC
- IAC, April 24, 1997, was coordinated with the 1991 ADAAG
- The new IAC was effective Oct. 23, 2018



28

Environmental Barriers Act (EBA)



- The IAC is coordinated with the 2010 ADA Accessibility Standard, with *italicized* amendments where the IAC exceeds ADA (e.g., vertical access, parking)
- The IAC includes the accessible means of egress from the 2015 IBC.
- The IAC is **not** coordinated with the FHAG



27

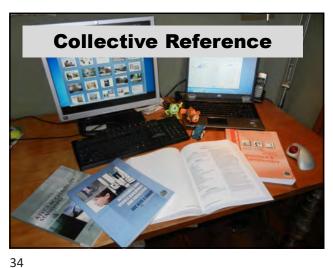


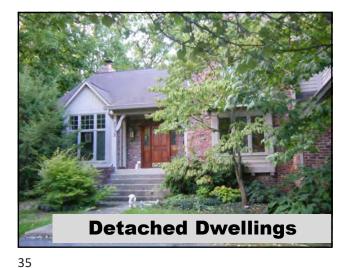














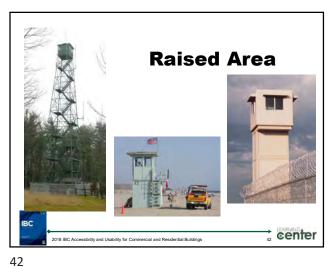






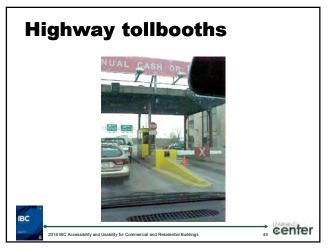






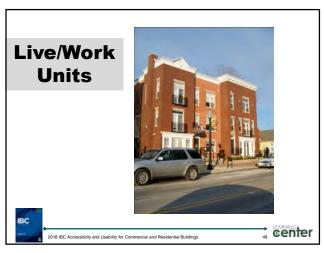


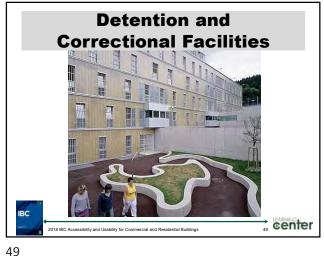


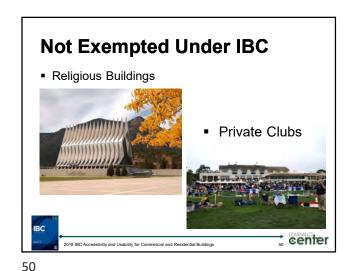


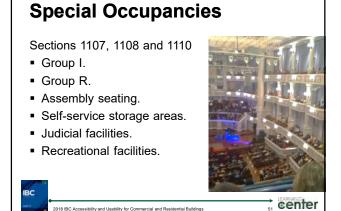












No accessible routes between levels (or when do you need an elevator?) Aggregate area of stories, mezzanines and occupied roofs <= 3000 sq.ft. except in: · Health care providers. Multi-tenant mercantile. · Transportation facilities. Government buildings.

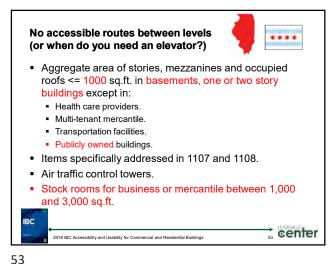
Items specifically addressed in 1107 and 1108.

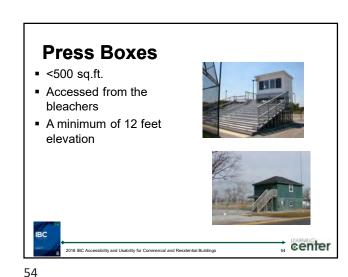
• Air traffic control towers.

52

2nd floors or mezzanines that are non-public areas with < = 5 occupants.

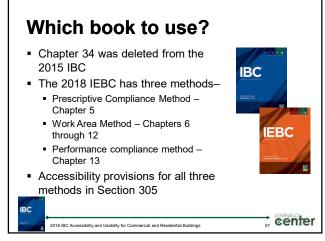


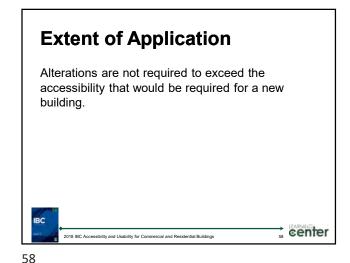














General Exceptions Accessible means of egress. Technically infeasible. When historical significance is adversely affected. Type B units when the alteration is to less than 50% of the area of the building (Level 1 or 2)

Technically Infeasible

- Removal or alteration of a load-bearing member that is an essential part of the structural frame
- · Existing physical or site constraints





function area, the route to that area and any toilet rooms or drinking fountains that serve that area must be evaluated for accessibility.

- Part 2

 If they are not accessible, additional improvements are required.



Alterations to Existing Buildings

• If the area being altered contains a primary

Primary Function Area



- A major activity for which the facility is intended.
- Can be multiple areas
- Not limited to public use
- Excluding areas such as:
 - Mechanical room or boiler room
 - Supply storage
 - Employee lounge or locker room
 - Janitors closet

61

- Entrances
- Corridors
- Restrooms (except where primary purpose highway rest stops)



63

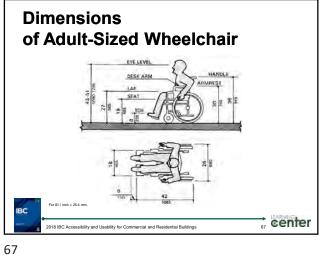
Accessible Route Exceptions

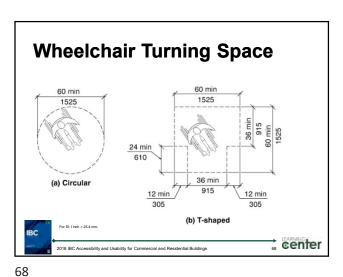
- The cost of the accessible route exceeds 20% of the cost of the alteration.
- The alteration is limited to items that will not alter the physical configuration or use of the space.
- The alteration is to improve accessibility.
- The route is to Type B units only.

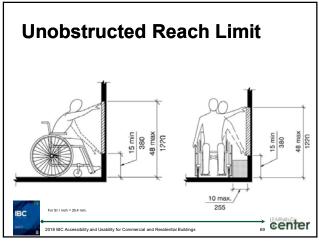


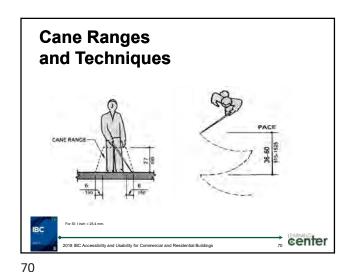


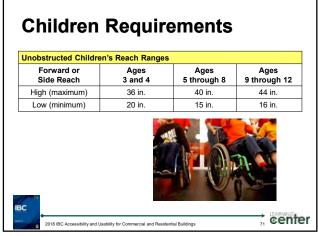


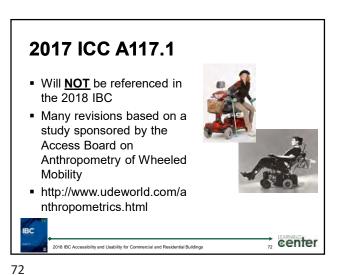


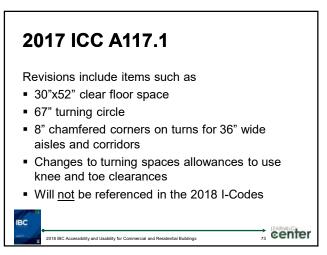


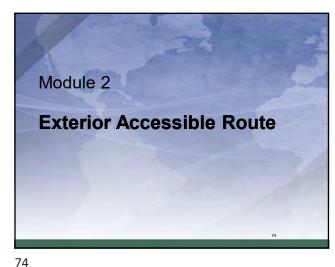












Exterior Accessible Route

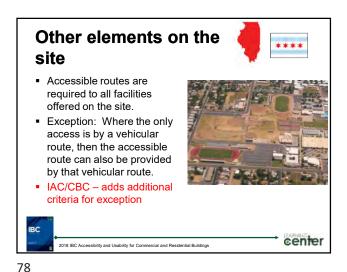
- Exterior Accessible Routes
 - Locations and Elements
 - Curb Ramps
 - Ramps
- Accessible Parking Spaces
- Passenger Loading Zones
- Signage.

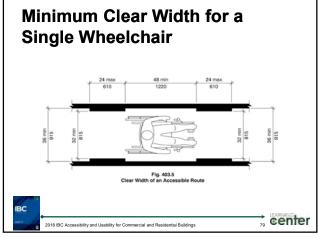
75

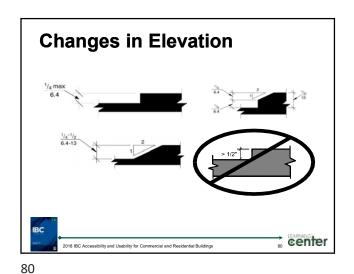




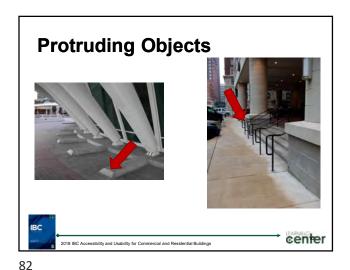




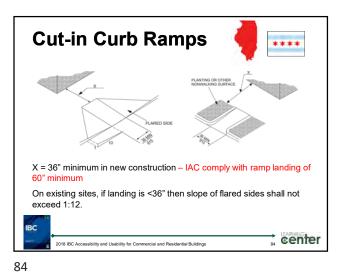


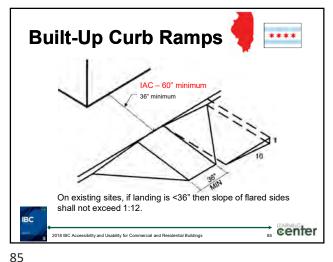


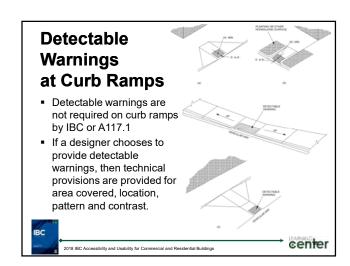














Curb Ramp Location A 36" minimum landing must be available at the top of the curb A depressed sidewalk with curb ramps at each end is permitted Don't put a built up curb ramp overlapping the access aisle Locate so that they will not be obstructed by parked cars center

88



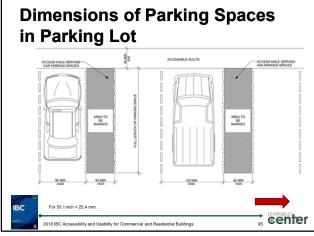


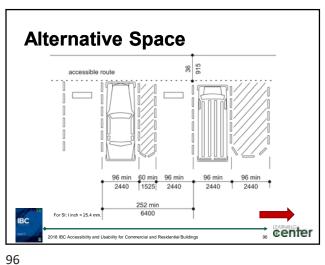


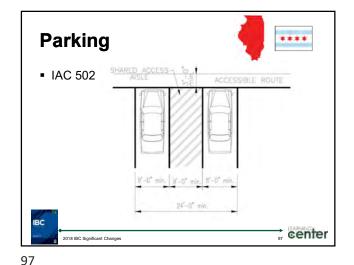
Accessible Parking Spaces Based on number of parking spaces provided. Number of parking spaces required per zoning ordinances. · Accessible spaces required: ■ Table 1106.1 for general parking. • 2% for Group R-2 and R-3. • 10% at hospitals facilities. • 20% at mobility treatment centers. • 1 of 6 accessible spaces sized for a van center

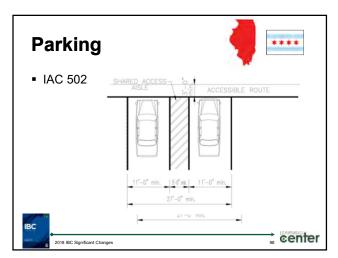


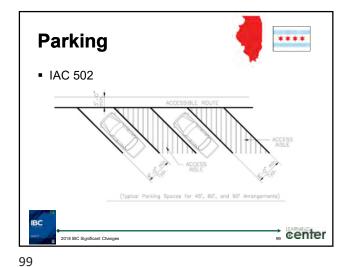




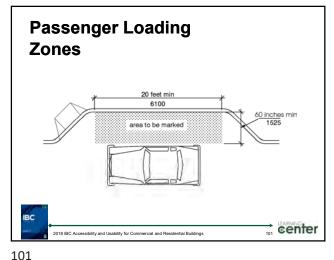








Passenger Loading Zones • At least one in Group I-1 and I-2 • At the entrance where valet parking is provided • Where passenger loading zones are provided, they must be accessible

















Copyright 2019 International Code Council

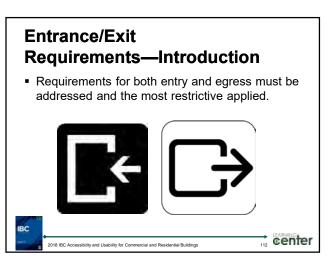




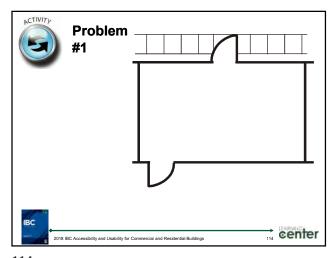
Accessible Entry vs. Exits

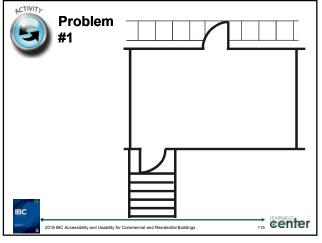
- Comparison of Requirements.
- Accessible Entrances.
- Accessible Means of Egress.
- Visible and Audible Alarms.

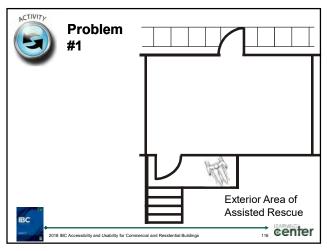


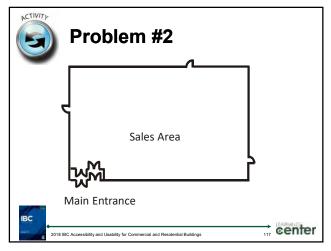


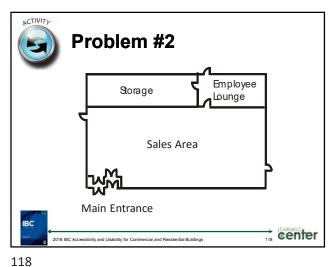
Accessible Entry vs. Accessible Exit			
TERM	DEFINITION	EXAMPLE	REQUIRED #
Accessible Entry	Consists of: •Exterior accessible route. •Accessible entrances. •Interior accessible route.	Elevator	60% of the entrances
Accessible Exit	Consists of: •Exit access via interior accessible route. •Area of refuge/Exit. •Exit discharge.	Exit Stairway	1 with 1 MOE 2 with 2+ MOE

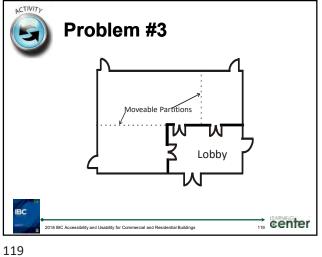


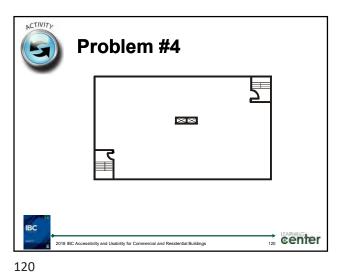


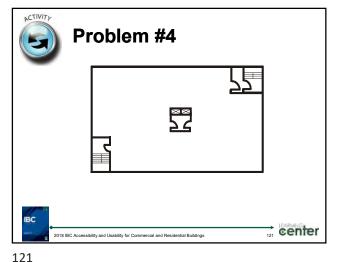














Exceptions • Areas not required to be accessible. Doors that serve as means of egress only. Service entrances that are not the only entrance to a tenant.

Accessible Entrances **** • IAC & CBC - In multi-story housing, at least 50 percent of all public entrances • CBC - An entrance with a weather overhand and a passenger loading zone In Group I-2 occupancies ■ Group B ambulatory care facilities CBC - A power operated door • Governmental facilities which contain or provide administrative services available to the general public • Museums with a gross floor area of 5,000 square feet (465 m2) or more. Passenger terminals. High-rise buildings containing Accessible units or Type A units. Group E-1 occupancies. center 2018 IBC Significant Changes

124







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

128

Pre-Planning for Emergencies Required in:

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



129

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



130

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

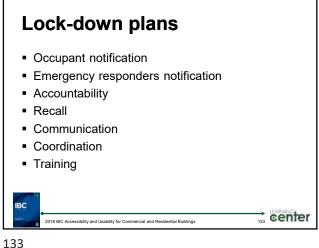


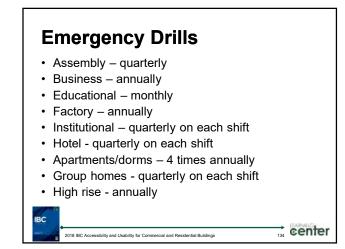
131

Fire Safety Plans

- Reporting emergency
- Evacuation or relocation of all 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







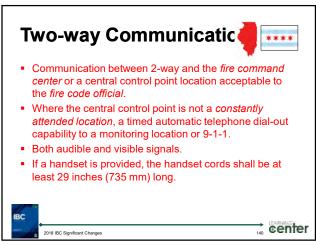




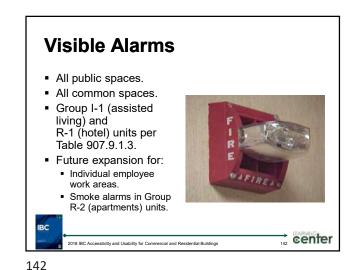




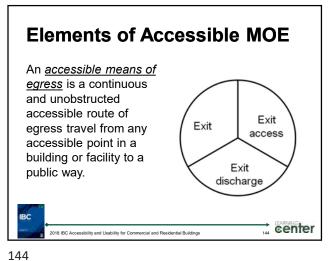
Two-way Communication Within areas of refuge At elevator lobbies in sprinklered buildings (added into 2009 IBC) Variety of options Allow for communication and feedback between emergency responders and people who need assistance













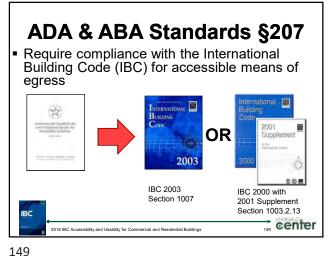


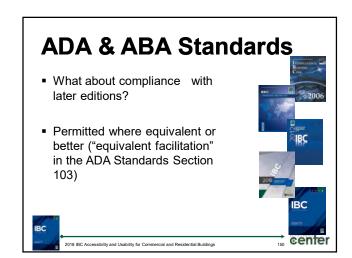


Accessible MOE

• Assisted rescue when necessary
• Defend in place (i.e., hospitals, jails)
• Assisted evacuation at stairways
• Assisted evacuation at elevators with standby power

148





AMOE: Minimum Number

- Minimum number of AMOE required:
 - 1 AMOE where 1 MOE required
 - 2 AMOE- if more than 1 MOE required
 - Exceptions:
 - · Existing facilities
 - · Areas not required to be accessible



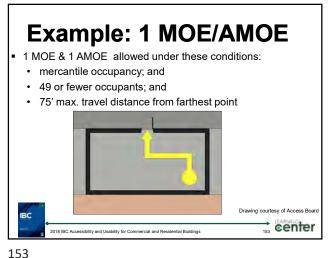
151

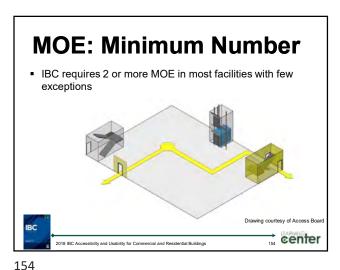
Special Consideration

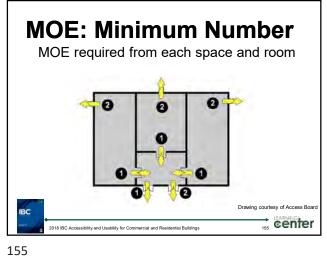
- Mezzanines.
- Wheelchair spaces in Assembly seating with sloped or stepped floors.
- Areas accessed only by platform lifts.

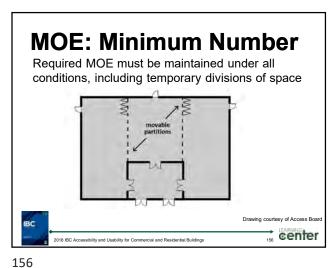


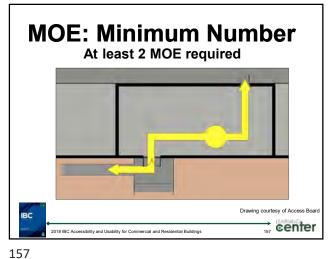
152





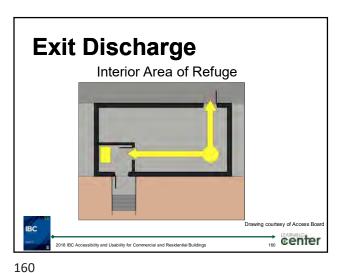




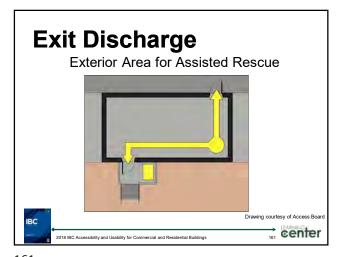


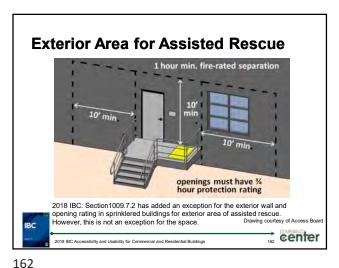


Accessible Exit Discharge • If exit discharge is not accessible: Steps ■ Steep site ■ Snow • Interior area of refuge, or • Exterior area of rescue assistance. • No exceptions for sprinklered buildings. senter

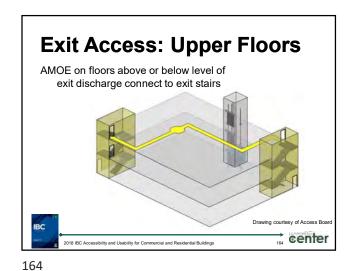


Copyright 2019 International Code Council













Stairways Exit stairway or exit access stairways between stories or mezzanines. ■ 48" clear width. Accessed from area of refuge. Fireman's carry center

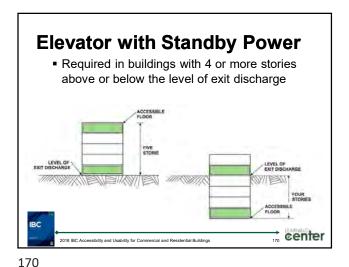
Exceptions to IBC 1009.3.3 -Area of Refuge

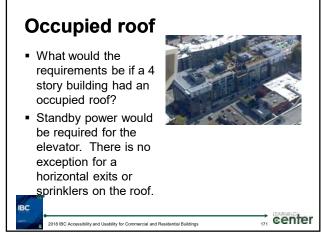
- Open exit access stairways.
- Stairway is accessed from a horizontal exit.
- Buildings with an NFPA13 or NFPA 13R sprinkler system.
- Open parking garages.
- Smoke protected/open air assembly seating.
- Group R-2.

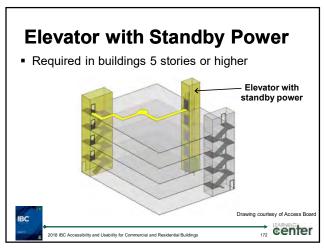
168













Exceptions to IBC 1009.4.2 – Area of refuge

- Elevator is accessed from a horizontal exit
- Open parking garages.
- Building sprinklered with an NFPA13 or NFPA13R system.
- The elevator is not in a shaft.
- Smoke protected/open air assembly seating.

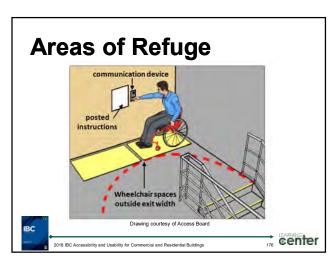


174

Exceptions to IBC 1009.2.1 – Standby power

- Buildings with horizontal exits (i.e., defend in place scenarios like a hospital)
- Ramps are proved from all floor levels (i.e., sports facilities or parking garage)





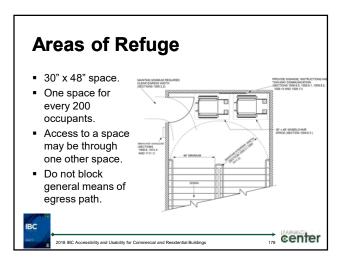
176

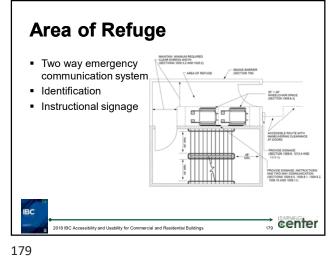
Area of Refuge

- Accessed by an accessible route.
- Separated by a smoke barrier.
- Direct access to an exit stairway, elevator with standby power or, on grade level, an exit.



177



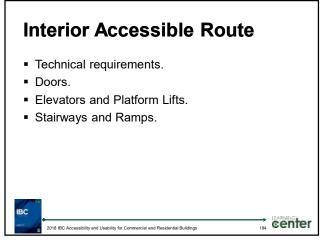


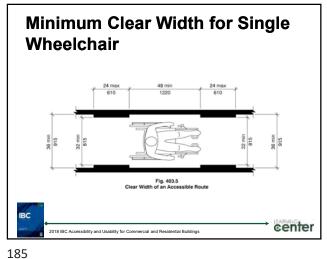


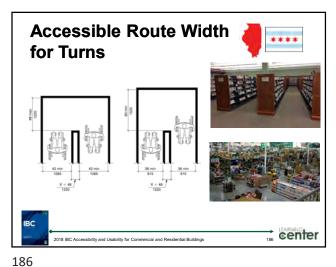


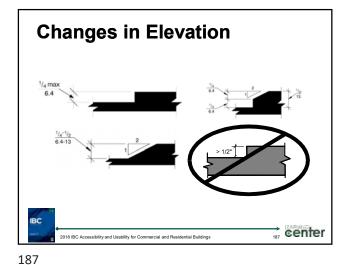




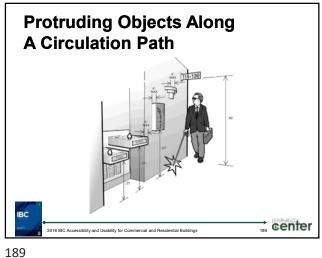






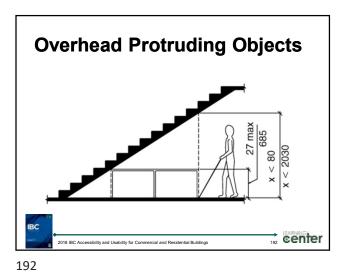












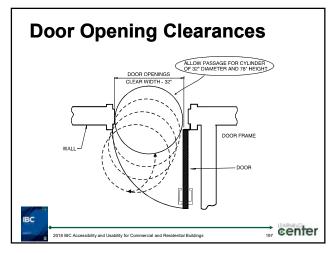




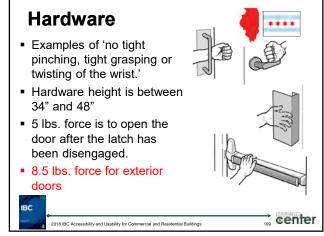


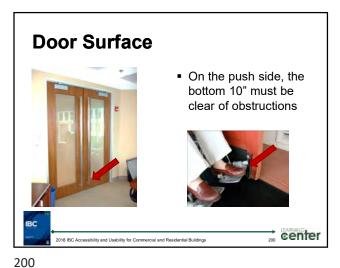


Copyright 2019 International Code Council



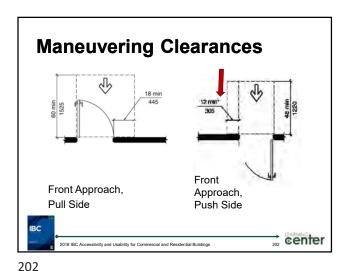






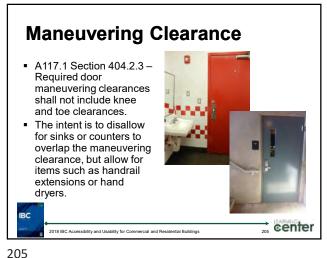
Copyright 2019 International Code Council

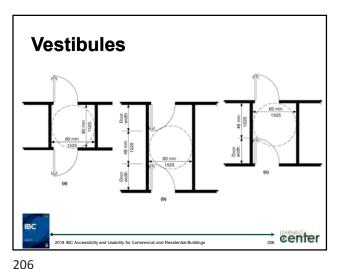


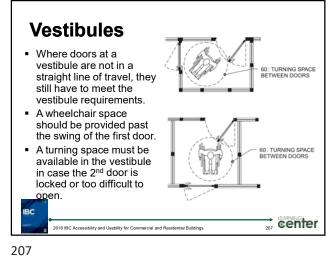






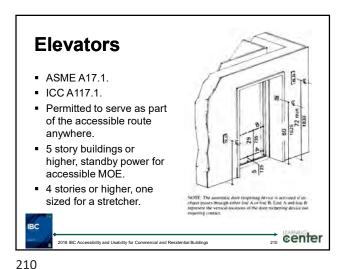


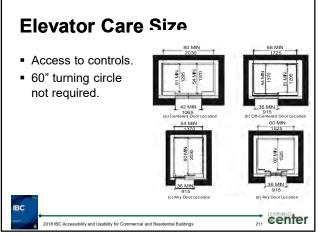


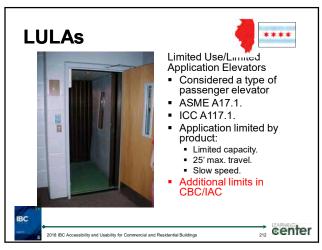


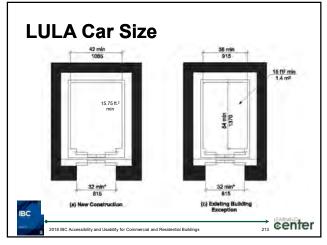














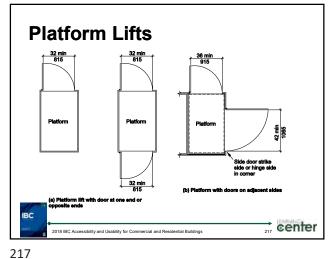


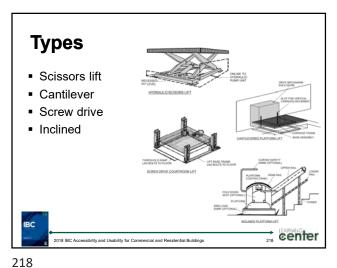
Platform Lifts Performing areas. Amusement rides. Wheelchair spaces in Play structures. assembly seating. Team or player seating. Restricted spaces with Boating and fishing <6 occupants. piers Within dwelling and Existing exterior sleeping units. constraints. Areas in courtrooms. This location cannot also serve as part of an accessible means of egress.

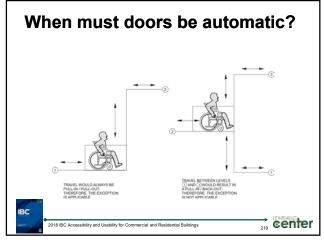
216

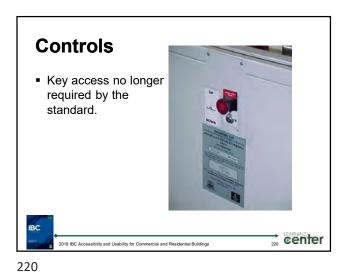
215

center

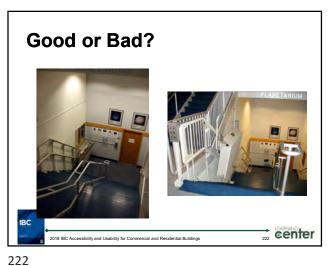










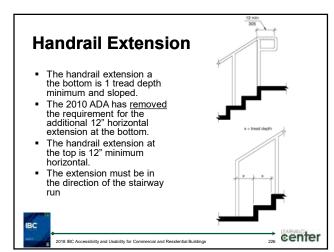






Copyright 2019 International Code Council

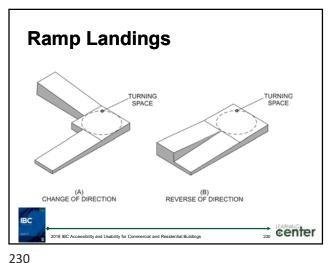


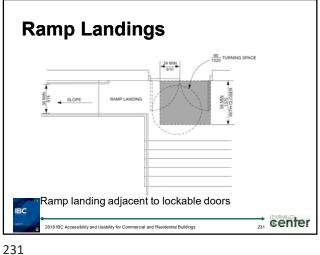


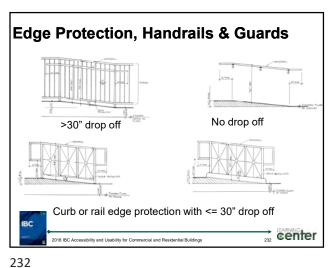




Ramp Technical Criteria ■ >1:20 slope. • 1:12 slope maximum on accessible routes. • Change in level at start of ramp ■ Surfaces – slip resistant ■ Cross slope - < 1:48 ■ Minimum width – 36" between handrails ■ Maximum rise – 30" between landings Adequate landings ⇒ center 2018 IBC Accessibility and Usability for Commercial and Residential Buildings

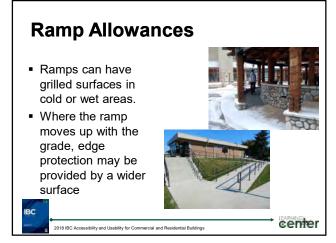


























Bathrooms

241

- Type A and Type B unit bathrooms are not addressed in this class.
- All other bathrooms will be covered here:
 - Public bathrooms
 - Private bathrooms
 - Accessible dwelling and sleeping units
 - Child size bathrooms



243

Bathrooms

- Required fixtures per IPC.
- Designers choice for how required fixtures are separated:
 - Multi-stall bathrooms
 - Single occupant bathrooms
- All bathrooms must be accessible per Chapter 6 of ICC A117.1.



Exceptions

- Accessed through a private office.
- Non-accessible dwelling or sleeping units.
- 50% of each type of clustered single occupant bathrooms.
- When only one urinal is provided in a bathroom, that urinal is not required to be accessible.
- · Critical care or Intensive care.
- Allowance to design for children



245

Bathrooms

- One of each type of fixture provided in each bathroom:
 - Water closets
 - Lavatories
 - Urinals
 - Bathtubs/Showers
- When 6 or more water closets and/or urinals are provided in a room, an ambulatory stall is required.



246

Sinks/Lavatories

- Lavatories are for bathing purposes.
- Sinks are typically a work sink.
- 5% constructed with front approach.
- When 6 or more lavatories are provided in a room, a lavatory with an enhances reach range faucet is required.



247

Exceptions

- Non-accessible:
 - Part of individual work stations
 - Mop or service sinks
- Limited accessibility:
 - Sinks for children's use
 - Kitchenettes permitted to have side approach



Family Use/Assisted Use Accessible Toilet Rooms

- Mercantile or assembly facilities; and
- 6 or more required water closets;
- 1 unisex toilet room required;

249

 Not an exception for accessible fixtures in the men's and women's toilet rooms.



Family Use /Assisted Use Accessible Bathing Rooms

- Recreational facilities where bathing rooms are provided.
- One family use bathing room is required.
- Exception:
 - If only one shower is provided in men's and women's bathing room.



250

Family Use/Assisted Use Accessible Toilet/Bathing Rooms

- Family Use room counts toward required fixture count.
- Designers choice to take from men's or women's fixture count.
- Toilet room must include one water closet and one lavatory.
- Room may include one urinal.
- Room must include any amenities provided in men's and women's toilet/bathing rooms.
- Bathing rooms must include a tub or shower.

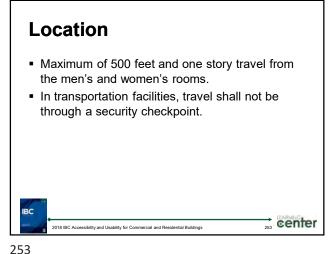


251

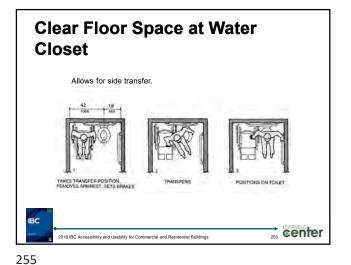
Purpose

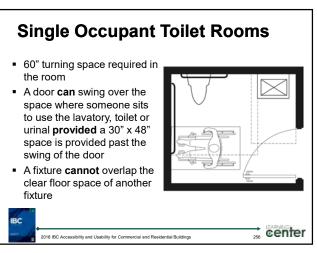
- Person with mobility impairment may require assistance.
- Families with small children.
- Persons with temporary disabilities may require assistance.
- Customer friendly.

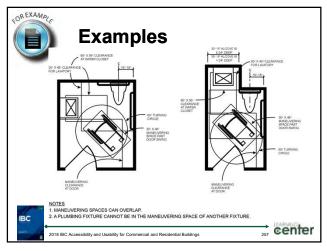


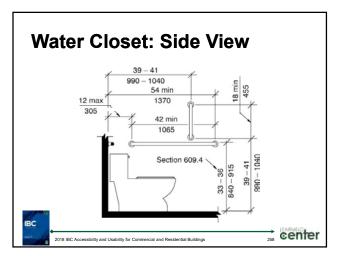








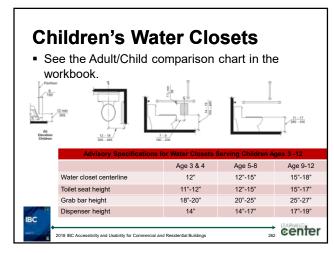






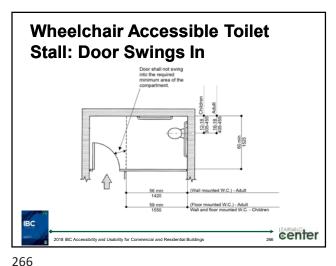


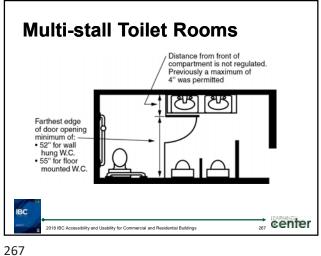


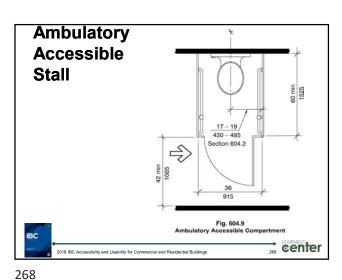
















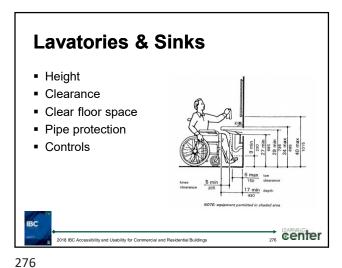












Copyright 2019 International Code Council









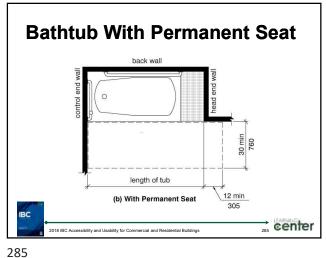


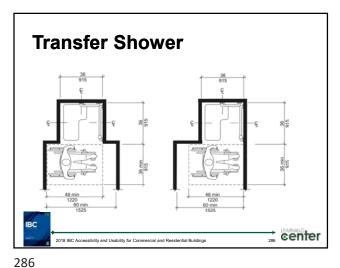


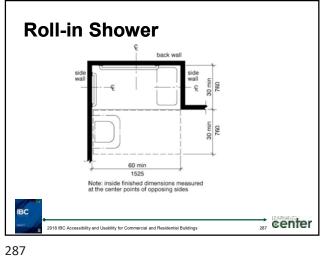
Bathtubs or Shower • Minimum dimensions for showers Clearances/approach Seats Grab bars Controls Shower unit Enclosures/doors Thresholds center

Bathtub Without Permanent Seat back wall 30 min length of tub center

284

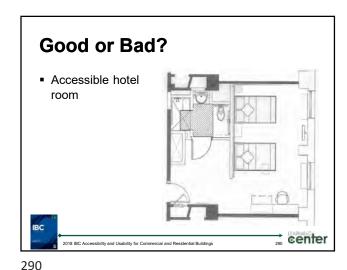












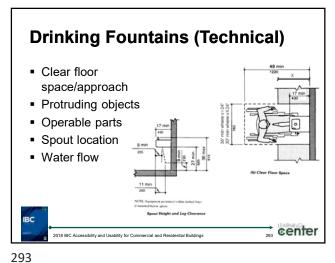
• 50% of drinking fountains provided on each floor configured for persons using wheelchairs. • 50% of drinking fountains provided on each floor configured for standing persons. · Exception for drinking fountains sized for children

Drinking Fountains (Scoping)



291





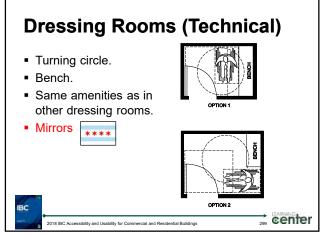




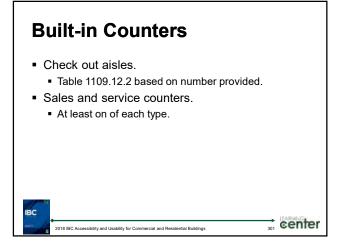






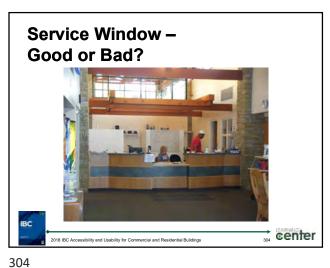












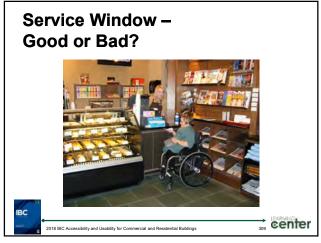


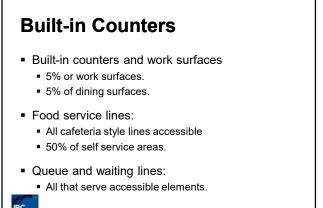






⇒ center





2018 IBC Accessibility and Usability for Commercial and Residential Buildings

310

312

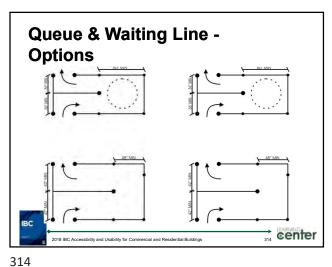
309

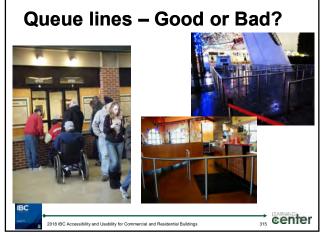




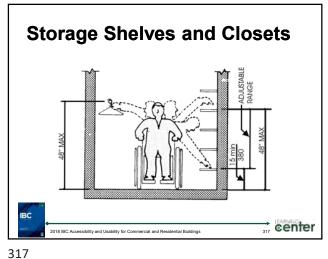
Copyright 2019 International Code Council







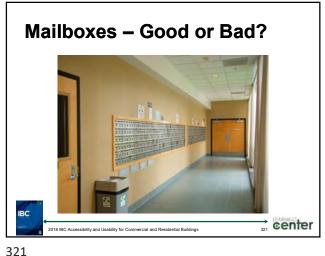
Storage • At least one of each type in accessible spaces: Cabinets Closets Drawers Mail boxes ■ 5% of lockers. Display shelves must be on an accessible route, but not within reach ranges. ■ CBC – Added Accessible and Type A units ⇒ center 316













Control Reach Limitations 1994 ADAAG ICC A117.1 and 2010 Standard ⇒ center

Windows Accessible units in Groups I-1, I-2, R-1, R-2 and R-4. When required for ventilation or emergency escape. • At least one in each room. Exception: Kitchens Bathrooms Expanded scope to 1 operable window in each ⇒ center

324

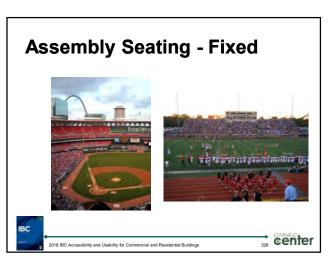


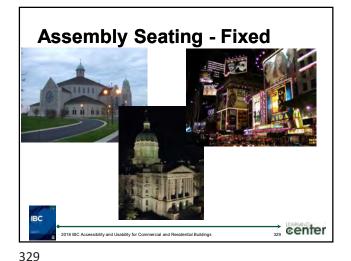


Special Occupancies Requirements

- Assembly seating.
- Dining areas.
- Self-service storage facilities.







Number of Spaces • Fixed seats provided.

- - Table 1108.2.2.1.
- Luxury boxes, club boxes or suites.
 - Each box based on Table 1108.2.2.1.
- Other box seats.
 - 20% of total box seats based on Table 1108.2.2.1.
- Lawn seating.



330

Dispersion Number of wheelchairs spaces (IBC Table 1108.2.2.1) Number of wheelchair space locations (ICC A117.1 Table 802.10) "Wheelchair space locations" include the companion seat and can include multiple wheelchair spaces.

Dispersion - IBC

- Access to services.
- Integration.
- Different levels.
- Exceptions:

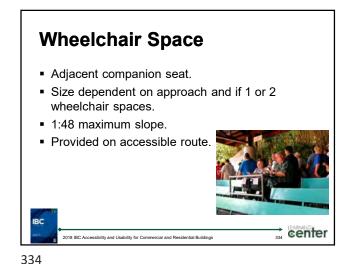
332

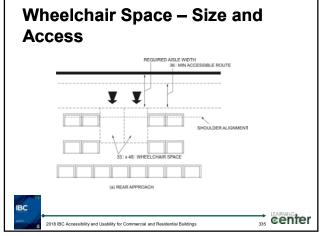
- Balconies in religious facilities with <25% of the total
- Balconies in assembly with both <300 seats and <25% of the total seats.

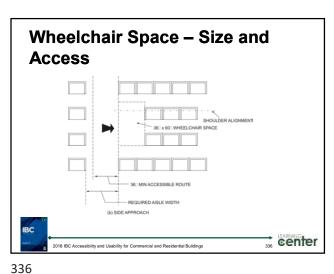


335

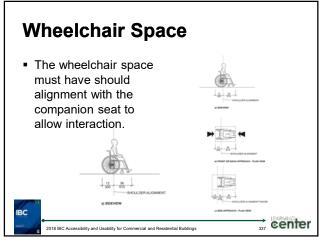
Dispersion – A117.1 Line of Sight – standing or seated spectators Horizontal (side-to-side) Vertical (front-to back) Type (seating type or services)

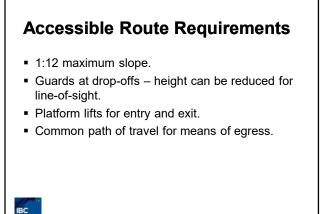




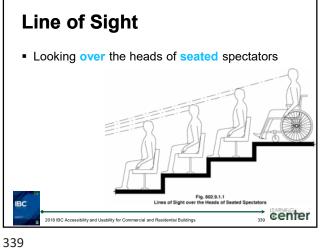


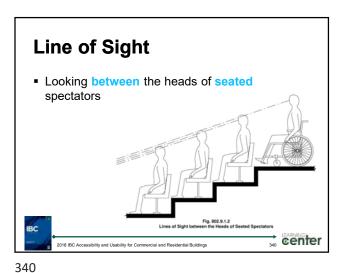
⇒ center



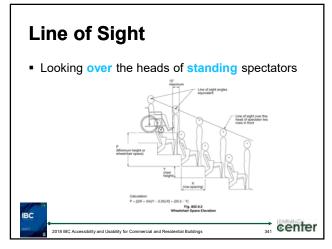


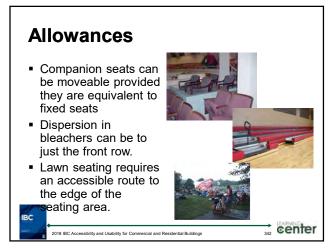
338

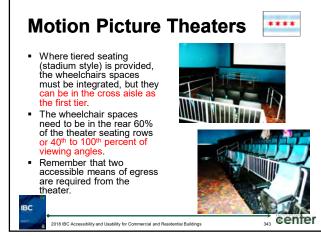




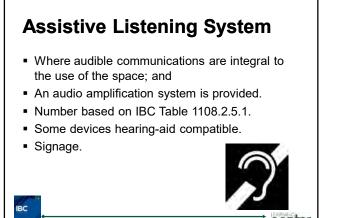
Copyright 2019 International Code Council







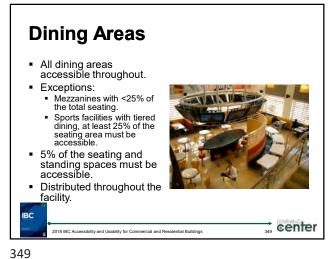








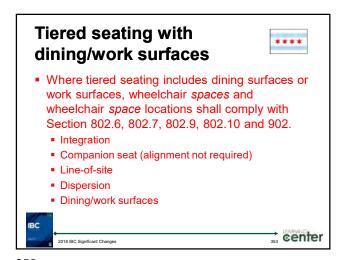














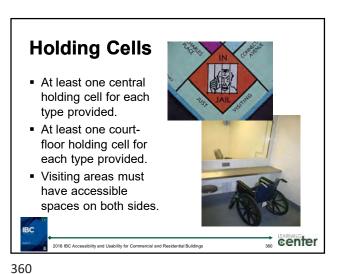


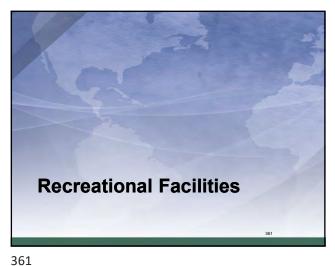






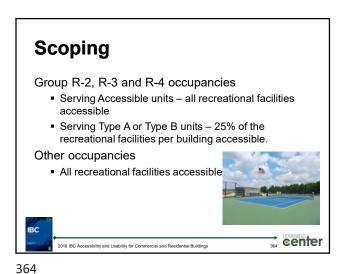










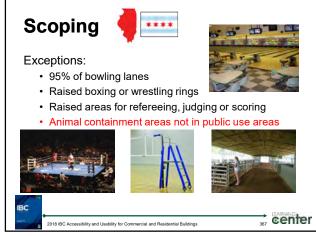


Copyright 2019 International Code Council

363









Copyright 2019 International Code Council

367









371

Copyright 2019 International Code Council





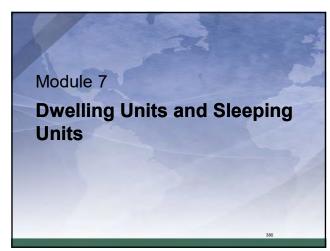


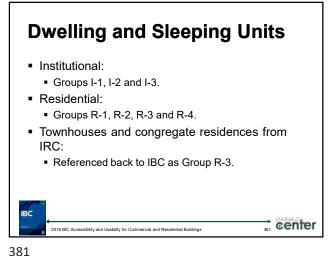


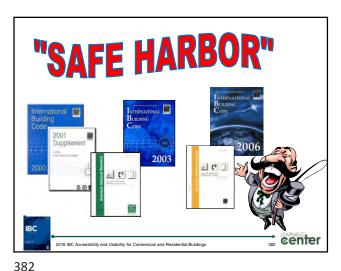


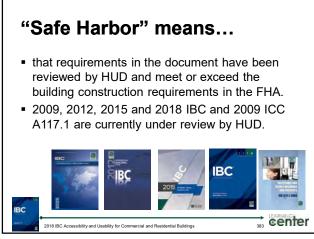




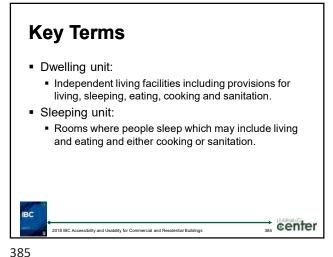


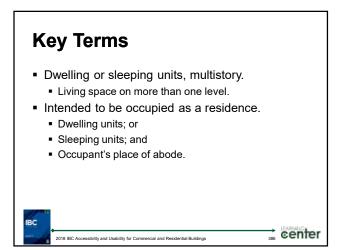


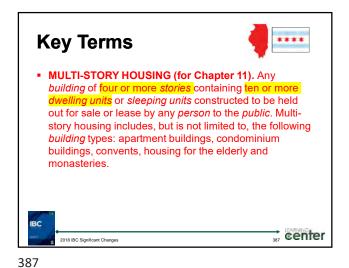


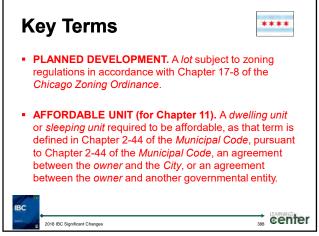




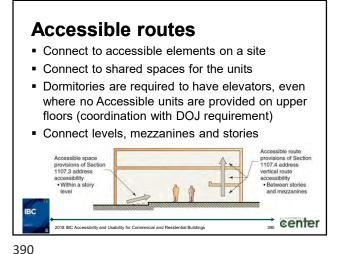


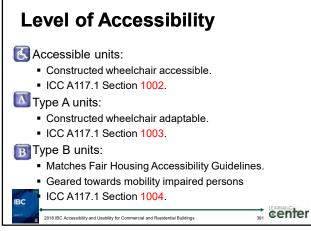


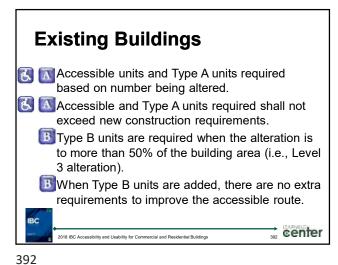




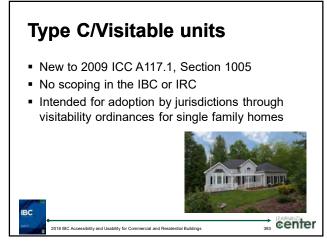


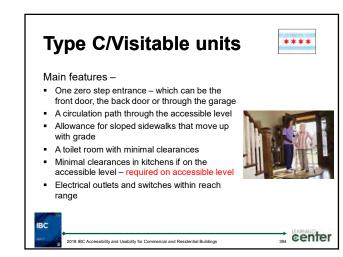




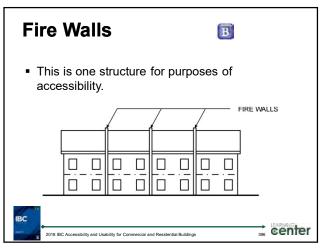


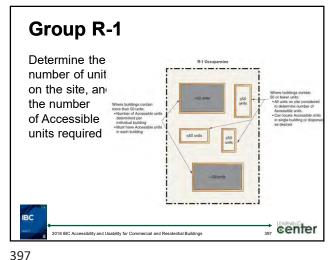
395

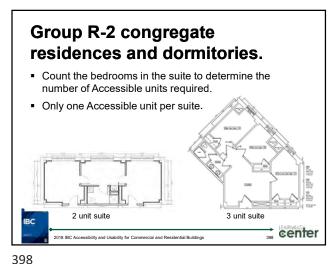






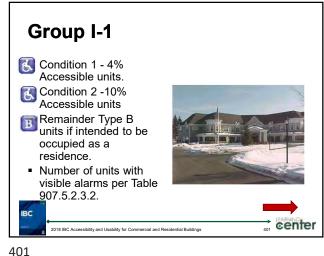








Group I Occupancy 24 Hour Care Facilities Number of Residents Capability of Age of Residents Residents 6-16 Over 16 1-5 Not capable of self 21/2 years or less R-3 or IRC I-2 preservation Capable of self Over 21/2 years R-3 or IRC R-4 I-1 preservation Not capable of self Over 21/2 years R-3 or IRC I-2 preservation For Group R-4, the number 16 is based on the limitations for an NFPA13D sprinkler system and the last national census. Of those that identified hemselves as a single family home, 98% had 16 or fewer residents. center center





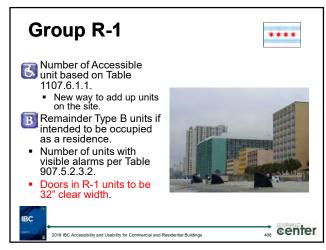




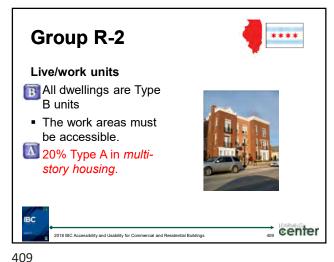






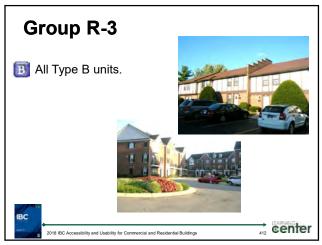


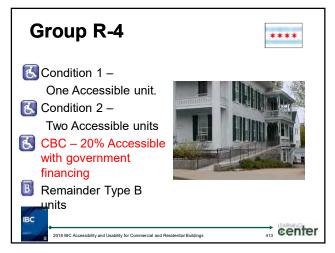
Copyright 2019 International Code Council

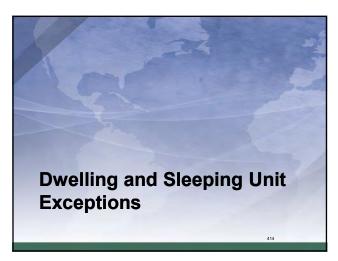


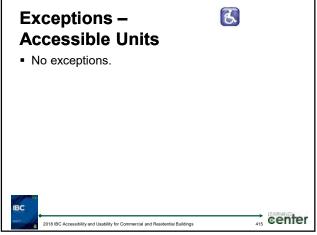


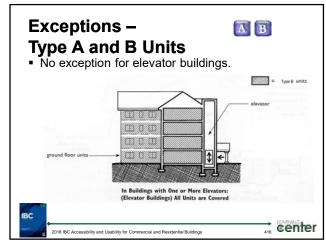


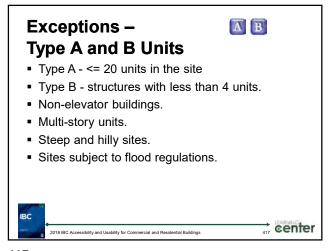


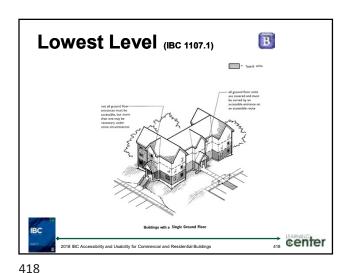


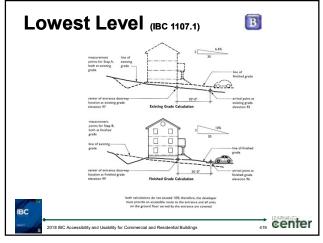


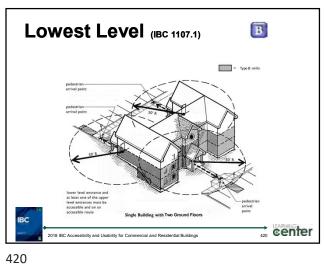


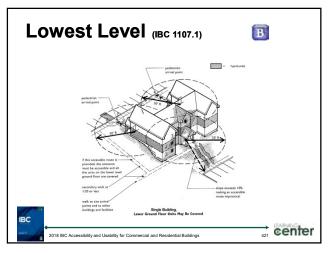


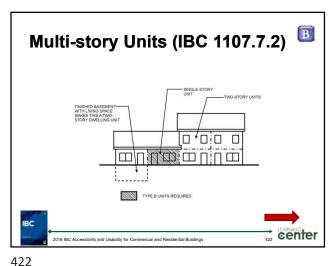


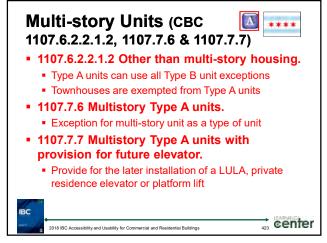


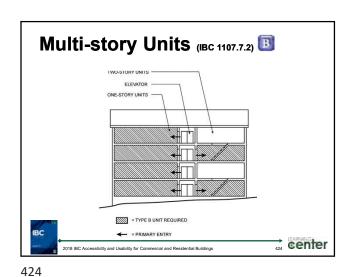




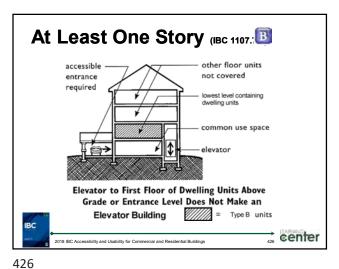


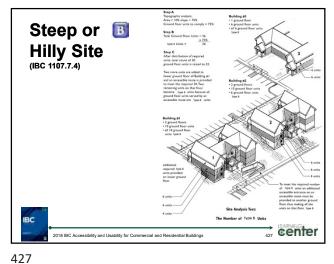


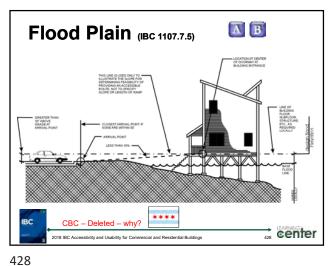




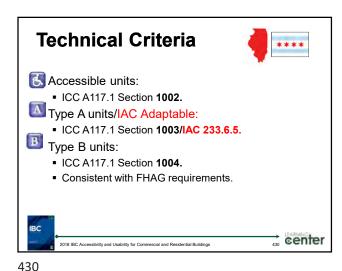


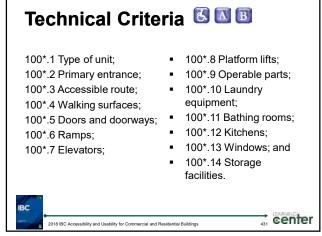


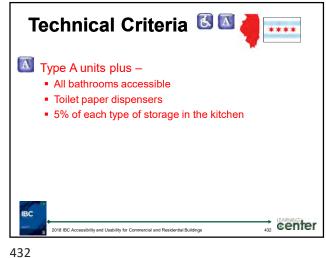












Technical Assistance

- ICC and A117.1 ICC, (888)422-7233; www.iccsafe.org.
- ADA Access Board, 800-872-2253(v), 800-993-2822(TTY), www.access-board.gov or email at ta@access-board.gov
- ADA ADA Technical Assistance Centers (800)949-4232; www.adata.org
- Fair Housing Fair Housing Accessibility First, (888)341-7781; www.fairhousingfirst.org.
- IAC Capital Development Board, (217)782-8530; Felicia.Burton@illinios.gov







434



433

Final Reflection

- What? What happened and what was observed in the training?
- So what? What did you learn? What difference did this training make?
- Now what? How will you do things differently back on the job as a result of this training?



435 436

International Code Council is a Registered Provider with The American Institute of Architects Continuing Education Systems. Credit earned on completion of this program will be reported to CES Records for AIA members. Certificates of Completion for non-AIA members are available on request.

This program is registered with the AIA/CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product. Questions related to specific materials, methods, and services will be addressed at the conclusion of this



Copyright Materials

This presentation is protected by U.S. and International Copyright laws. Reproduction, distribution, display and use of the presentation without written permission of the speaker is prohibited.

© International Code Council 2018



Thank you for participating!

To schedule a seminar, contact:

The Learning Center™

1-888-ICC-SAFE (422-7233) Ext. 33821

or

E-mail: learn@iccsafe.org

