

# **Planning & Development Department**

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## **Self-Certification Training Accessibility**

# 2018 Phoenix Building Construction Code

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# 2018 Phoenix Building Construction Code

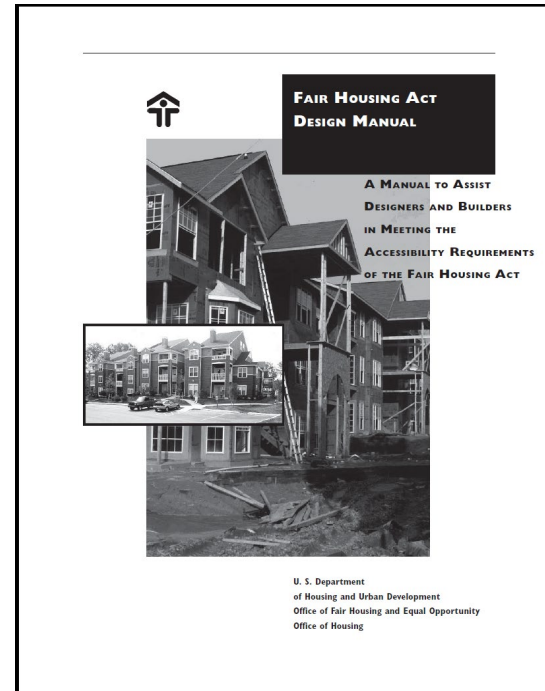
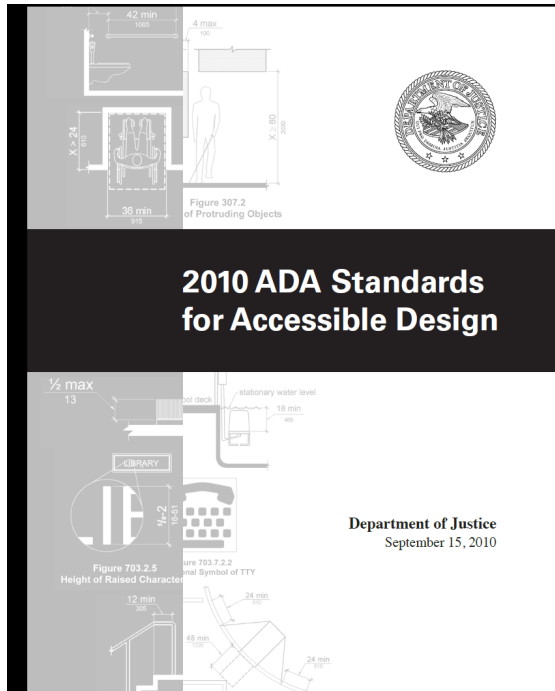


How many of you have taken college classes?

What is the minimum grade you have to make to get credit for a class?

**CODES SPECIFY MINIMUM REQUIREMENTS**

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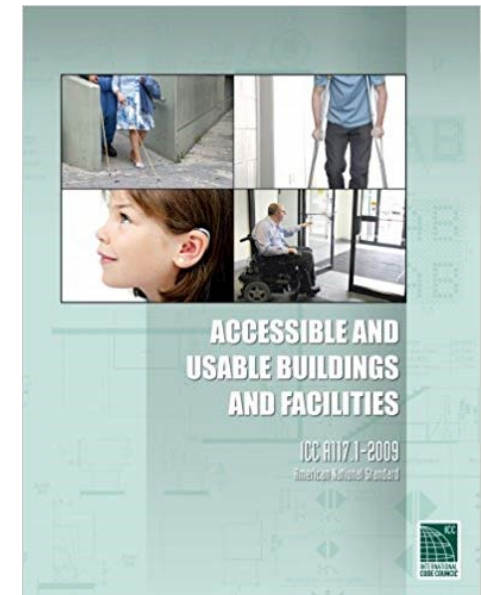
# 2018 Phoenix Building Construction Code



2018 International Building Code (IBC) with amendments

2018 International Existing Building Code (IEBC) with amendments

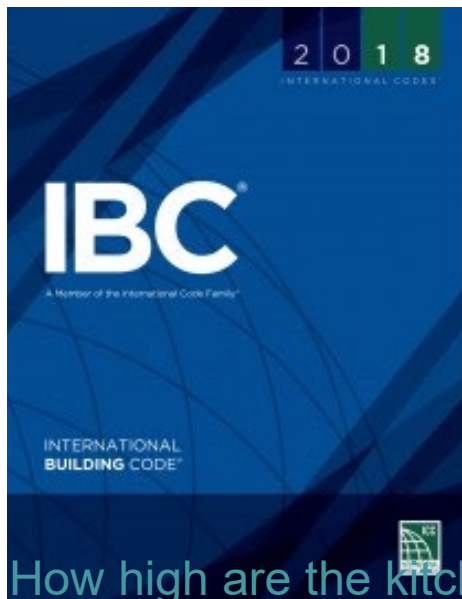
2009 ICC A117.1 Accessible and Usable Buildings and Facilities



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IBC specifies what accessibility features are required and when.



What type of dwelling units are required.

How many Type A dwelling units are required.



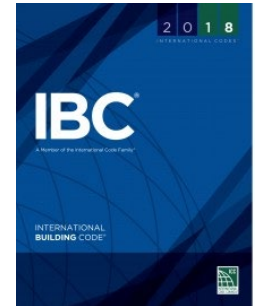
How high are the kitchen counters in a Type A dwelling unit.

Where are the grab bars placed in the bathroom of a Type A dwelling unit.

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## 2018 International Building Code

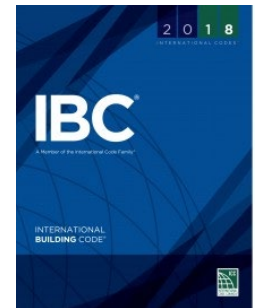


- CHAPTER 10 - MEANS OF EGRESS  
Section 1009 Accessible Means of Egress
- CHAPTER 11 - ACCESSIBILITY
- APPENDIX E - SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS

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## Section 1009 Accessible Means of Egress



### NOTE !!!

This presentation assumes an NFPA 13 or NFPA 13R automatic sprinkler system is present.

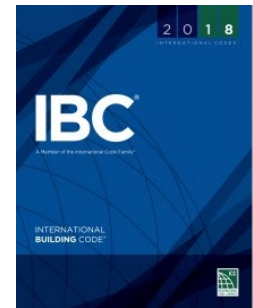


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## Section 1009 Accessible Means of Egress

*Accessible Means of Egress* is required from all accessible spaces.

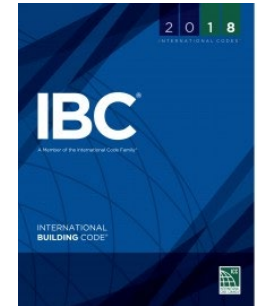


1. If one means of egress is required, then it shall be an ***Accessible Means of Egress***.
2. If more than one means of egress is required, then not less than two ***Accessible Means of Egress*** shall be provided.

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## Section 1009 Accessible Means of Egress



Accessible Means of Egress

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Accessible Route

- Accessible Routes
- Interior Exit Stairways
- Interior Exit Access Stairways  
*Between Stories Only*
- Exterior Exit Stairways
- Horizontal Exits
- Areas of Refuge \*
- Exterior Area for Assisted Rescue\*

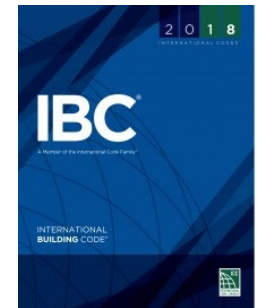
- Walking surfaces with slope not steeper than 1:20
- Doors and Doorways
- Ramps
- Curb Ramps excluding the flared sides
- Elevators
- Platform Lifts

\* Not required when sprinklered.

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## Section 1009 Accessible Means of Egress



*You do not need assistance on an Accessible Route*

*But you might need assistance when on an Accessible Means of Egress*

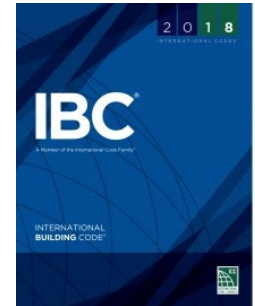


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## Section 1009 Accessible Means of Egress - Stairways

Differences between an *Accessible Means of Egress Stairway* and a regular means of egress stairway?

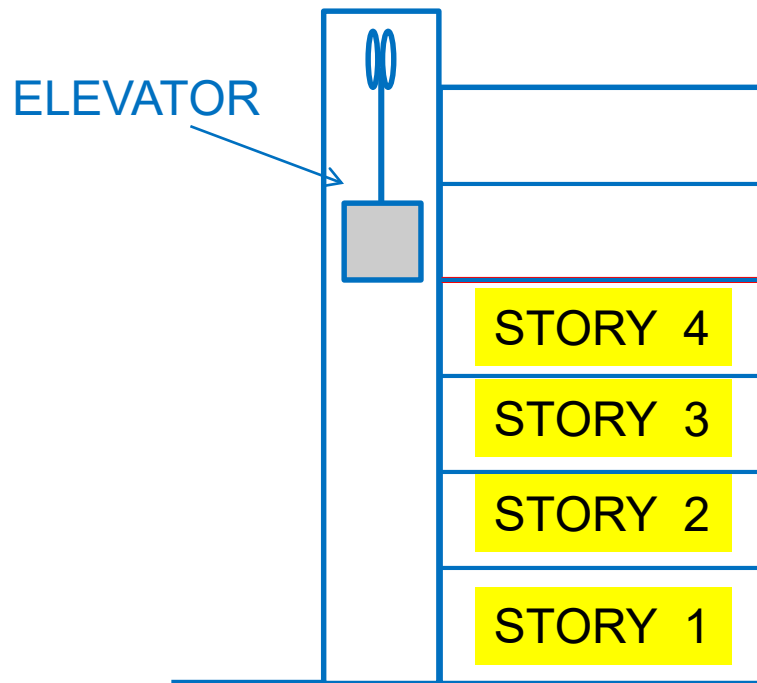
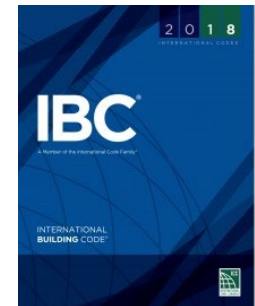


1. Risers shall be solid.
2. Cannot be an exit access stairway connecting two levels in the same story except from a mezzanine.
3. Cannot be an exterior exit stair within the Exit Discharge-to-Public Way portion of the means of egress.

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## Section 1009 Accessible Means of Egress - Elevators



Not less than one elevator is required to all stories that do not have a horizontal exit.

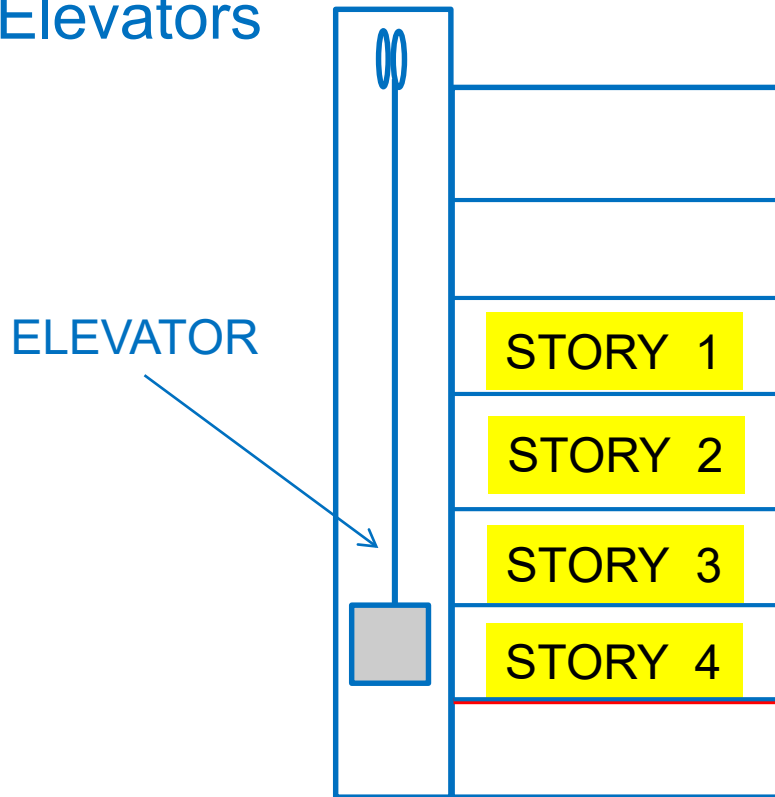
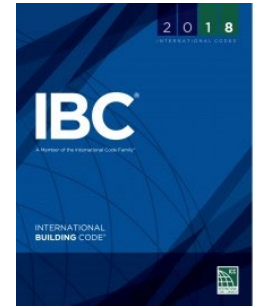
Elevators require standby power, and 2-way communications.

LEVEL OF EXIT DISCHARGE

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## Section 1009 Accessible Means of Egress - Elevators



LEVEL OF EXIT DISCHARGE

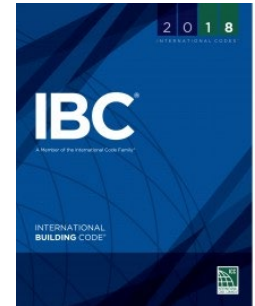
Not less than one elevator is required to all stories. **Horizontal exit exception does not apply for basement condition.**

Elevators require standby power, and 2-way communications.

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## Section 1009 Accessible Means of Egress - Platform Lifts



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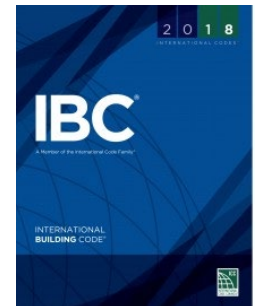


## Section 1009 Accessible Means of Egress - Platform Lifts

Use is limited to very specific areas listed in Chapter 11.

Cannot be used within the Exit Discharge-to-Public Way portion of the means of egress.

Platform lifts require standby power.

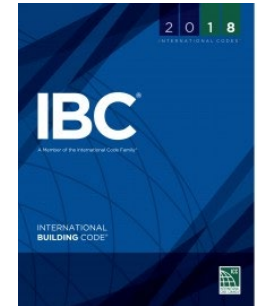




# 2018 Phoenix Building Construction Code



## Section 1009 Accessible Means of Egress - Platform Lifts



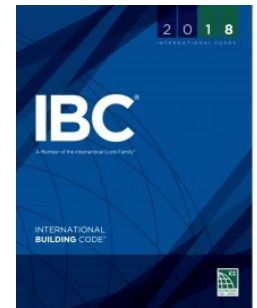
Cannot use lifts on sites instead of ramps as Accessible Means of Egress.



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## Chapter 11 Accessibility



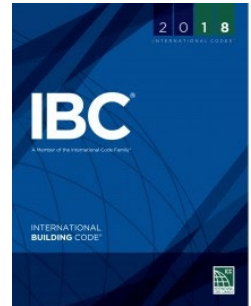
1103.1 Sites, buildings, structures, facilities, elements and spaces, temporary or permanent, shall be accessible to individuals with disabilities.

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## Chapter 11 Accessibility – General Exceptions

- Employee work areas.
- Detached one- and two- family dwellings, their accessory buildings, facilities, and sites.
- Group U occupancies.
- Construction sites.
- Raised areas
- Limited access spaces.
- Raised / lowered areas in places of religious worship.
- Equipment spaces.

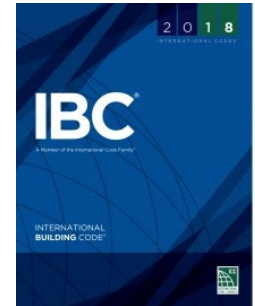


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## Chapter 11 Accessibility – General Exceptions

- Highway tollbooths.
- Residential Group R-1.
- Day care facilities.
- Detention and correction facilities.
- Walk-in coolers and freezers.

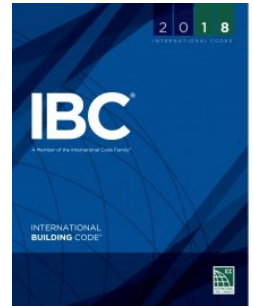


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## Chapter 11 Accessibility – Accessible Route

- Walking surfaces with slope not steeper than 1:20
- Doors and Doorways
- Ramps
- Curb Ramps excluding the flared sides
- Elevators
- Platform Lifts



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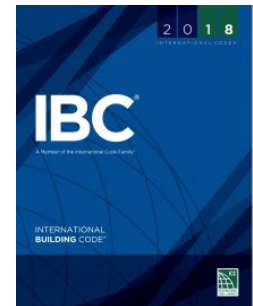


## Chapter 11 Accessibility – Accessible Route

At least one accessible route is required to the accessible building entrance served from:

- public transportation stops
- accessible parking
- accessible loading zones
- public streets or public sidewalks

An accessible route is not required where only a vehicular way is provided with no pedestrian access. However, an accessible route is required if the building has, or serves, Type B units.

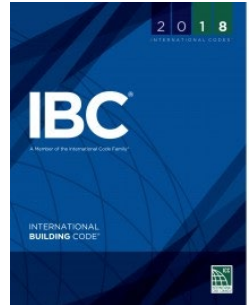


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## Chapter 11 Accessibility – Accessible Route

At least one accessible route shall connect accessible buildings, accessible facilities, and accessible spaces on the same site.



An accessible route is not required where only a vehicular way is provided with no pedestrian access.

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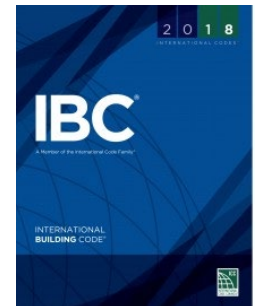


## Chapter 11 Accessibility – Accessible Route

Common use circulation paths within employee work areas shall be accessible routes. (See exceptions)

Press boxes shall be on accessible routes. (See exceptions)

Stories, mezzanines and occupied roofs shall be connected by accessible routes. (See exceptions, and exceptions to the exceptions)





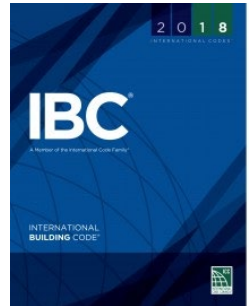
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## Chapter 11 Accessibility – Accessible Route

Accessible routes shall be located in the same area as the general circulation path. (See exceptions)

Security barriers, bollards, check points shall not obstruct accessible routes. (See exceptions)

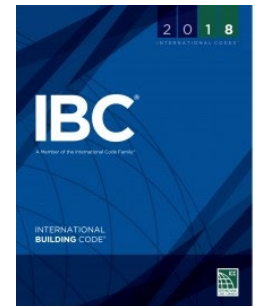


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## Chapter 11 Accessibility - Entrances

At least 60% of public entrances shall be accessible.



Other required accessible entrances are also listed.

- Parking garage entrances
- Restricted entrances
- Service entrances
- Tenant space entrances
- Dwelling unit entrances

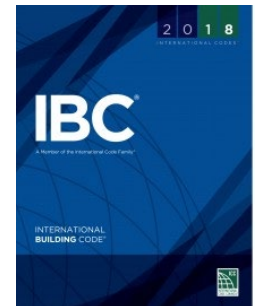
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## Chapter 11 Accessibility - Parking

Amendment deletes Section 1106 and refers to –  
City of Phoenix Zoning Ordinance (section 702G),  
2010 ADA Standards for Accessible Design.

The Zoning Ordinance also refers to the Fair Housing Act Design Manual.



Other helpful documents:

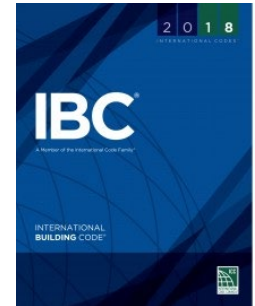
City Parking Requirements Guidelines. TRT/DOC/00070

Accessibility Parking Standards. TRT/DOC/00433

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## Chapter 11 Accessibility – Dwelling Units and Sleeping Units



Dwelling Unit – a unit that includes:  
living  
sleeping  
eating  
cooking  
sanitation

Sleeping Unit – a unit that includes:  
sleeping  
and either  
cooking or sanitation

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## Chapter 11 Accessibility – Dwelling Units and Sleeping Units

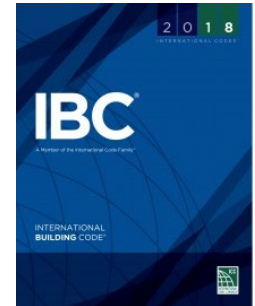
### Types of Dwelling / Sleeping Units



Accessible Unit - Ready to use fully accessible features

Type A Unit - Adaptable unit

Type B Unit - Fair Housing Act Adaptable Unit



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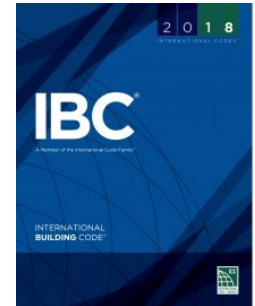


## Chapter 11 Accessibility – Dwelling Units and Sleeping Units

Quantity and type of units depends on the occupancy classification ( Group I and Group R), the specific use, and the total quantity of units in the building and on the project.

“Transient” – used for less than 30 days

“Intended to be occupied as a residence”



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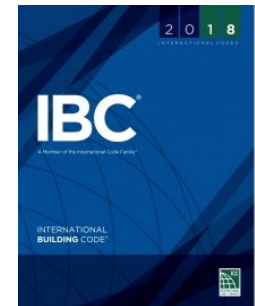


## Chapter 11 Accessibility – Special Occupancies

Assembly occupancies with fixed seating –

If a service or facility is provided that is not accessible, it shall also be provided on an accessible level and be accessible.

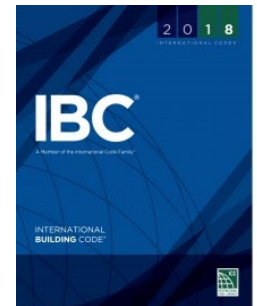
Each wheelchair space shall be provided with a companion seat.



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## Chapter 11 Accessibility – Special Occupancies



Lawn seating assembly areas without fixed seats –

Shall have an accessible route to the lawn area but wheelchair spaces and companion seats are not required.

Exterior overflow assembly seating areas without fixed seats –

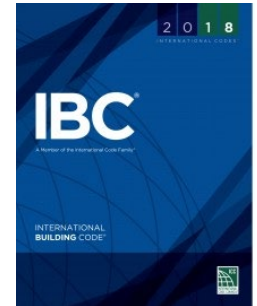
Shall have an accessible route to the exterior area but wheelchair spaces and companion seats are not required.



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## Chapter 11 Accessibility – Special Occupancies



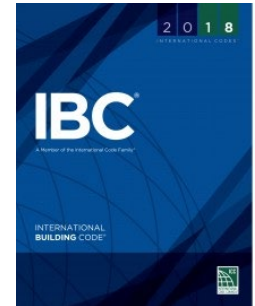
Dining and drinking assembly occupancies –

All interior and exterior floor areas shall be accessible. (See exceptions)

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## Chapter 11 Accessibility – Special Occupancies



### Self-service storage facilities –

Accessible individual self-storage spaces shall be provided.

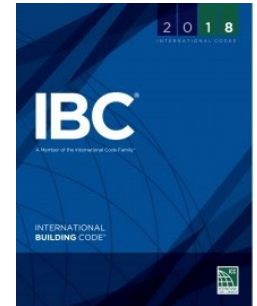
Accessible self-storage spaces shall be of the various classes of spaces available.

Accessible spaces can be located in one building and on one single story.

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## Chapter 11 Accessibility – Special Occupancies



### Judicial facilities –

Courtrooms shall be accessible.

Jury box shall have a wheelchair space. (no companion)

Gallery seating shall have wheelchair spaces. If fixed seating is provided, then companion seating is required.

Elevated work stations can be accessed with wheelchair lifts.

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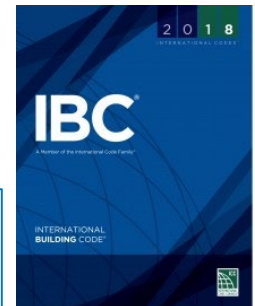


## Chapter 11 Accessibility – Other Features and Facilities

Toilet and bathing facilities –

All toilet and bathing rooms shall be accessible. (See exceptions)

Single-user facilities required in assembly and mercantile.



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## Chapter 11 Accessibility – Other Features and Facilities

Sinks – 5% but not less than one shall be accessible.

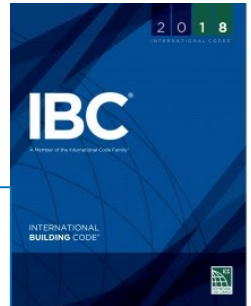
Kitchens and kitchenettes shall be accessible.

Drinking fountains always provided in wheelchair / standing pairs

Saunas and steam rooms shall be accessible.

Elevators on accessible route shall be accessible.

Fixed /built-in storage – 5% but not less than one shall be accessible.



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## Chapter 11 Accessibility – Other Features and Facilities

### Wheelchair lifts

Maintain accessible route to performing areas and speaker platforms

To fixed seat assembly areas for required WC space dispersion

Maintain accessible route to lawn & overflow assembly seating areas

Maintain accessible route inside dwelling and sleeping units

Maintain accessible route to raised courtroom stations

On accessible routes at load / unload areas for amusement rides

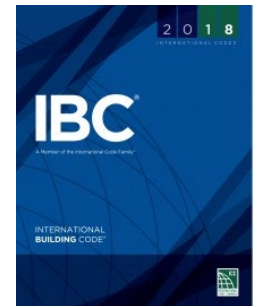
Maintain accessible route to play areas

Maintain accessible route to team / player seating in sports activity areas

Maintain accessible route to boating and fishing piers and platforms

**Maintain accessible route on exterior sites where ramps and elevators are infeasible.**

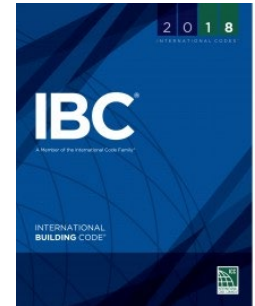
**THIS ONE IS NOT ALLOWED FOR ACCESSIBLE MEANS OF EGRESS**



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## Chapter 11 Accessibility – Other Features and Facilities



Detectible warnings - only required at passenger transit platform edges bordering a drop-off that is not protected by guards or screens.

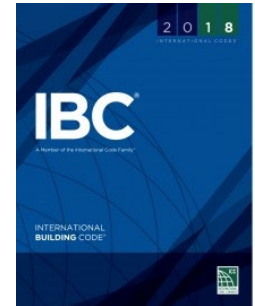


Not required at bus stops.

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## Chapter 11 Accessibility – Other Features and Facilities



Seating at tables, counters and work surfaces – 5% but not less than one.



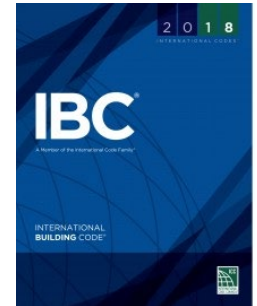
At drinking establishments, the bar does not need to have an accessible counter if a table with accessible features is located in the immediate area of the bar and serviced by the bar.



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## Chapter 11 Accessibility – Other Features and Facilities



Dressing, fitting, and locker rooms – 5% but not less than one of each type shall be provided.

Accessible check-out aisles shall be provided.

Accessible point-of-sale counters and service counters shall be provided.

Food service lines shall have accessible features.

Controls, operating mechanisms, and hardware shall be accessible. (See exceptions)

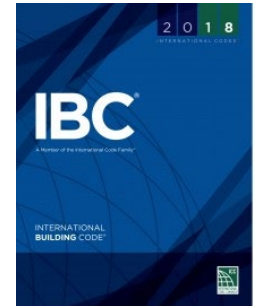


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## Chapter 11 Accessibility – Recreational Facilities

Listed recreational facilities shall be accessible in the quantities specified.



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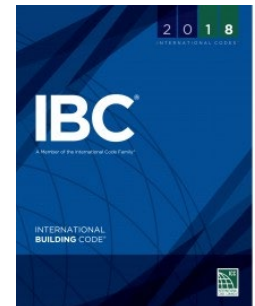
## Chapter 11 Accessibility – Signage

Signs shall identify required accessibility features as listed.

Directional signs to the nearest accessible element shall be located in listed locations.

Other signs shall be provided as listed.

Appendix E has more sign provisions.

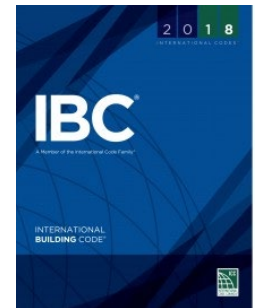


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## APPENDIX E – Supplementary Accessibility Requirements

Transient lodging communication features,  
Portable toilets and bathing rooms,  
Laundry equipment,  
Mailboxes,  
Telephones,  
Signage,  
Bus Stops, transportation facilities, and stations,  
Airports



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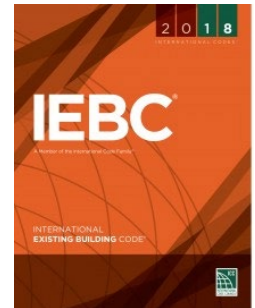
## Accessible Means of Egress

**Additions** – Required in new construction per IBC section 1009.

**Alterations** – Not required. Shall not reduce existing egress facilities.

**Repairs** – Not required. Shall not reduce existing egress facilities.

**Change of Occupancy** – Required per IBC section 1009 if change is to a higher-hazard occupancy.



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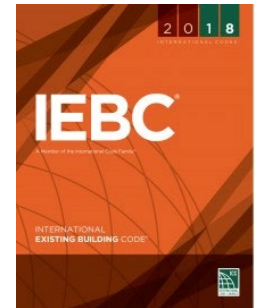


## Accessibility

### Reducing accessibility is prohibited !

**Alterations** – Required to be accessible per IBC Chapter 11.

If technically infeasible, accessibility shall be provided to the maximum extent that it is technically feasible.



**Alterations to Area of Primary Function** – Accessible route to the area of primary function is required per IBC Chapter 11.

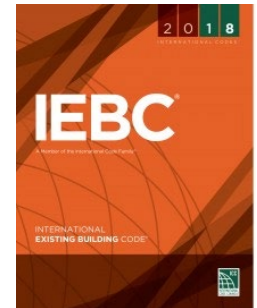
Cost of providing accessible route to the area of primary function can be limited to 20% of the cost of the alterations of the area of primary function.

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## Accessibility



**Additions** – Required to be accessible per IBC Chapter 11.

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## Accessibility

### Complete Change of Occupancy –

To the maximum extent technically feasible, provide:

At least one accessible entrance,

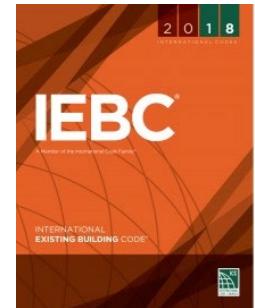
At least one accessible route from entry to primary function,

Signage per IBC section 1111,

Accessible parking (where parking is provided),

Accessible loading zone (where loading zones are provided),

At least one accessible route from parking and loading to entry.

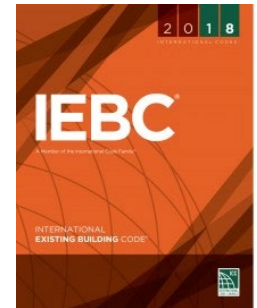




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## Accessibility



## Historic Buildings

Refer to Section 305.9 and,

Refer to Section 507 when using Prescriptive method.

Refer to Chapter 12 when using Class of Work method.

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Chapter 3 – Building Blocks

Chapter 4 – Accessible Route

Chapter 5 – General Site and Building Elements

Chapter 6 – Plumbing Elements and Facilities

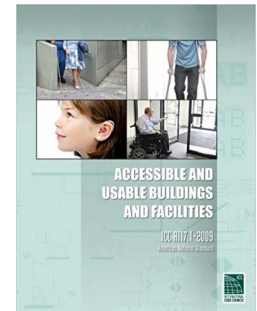
Chapter 7 – Communication Elements and Features

Chapter 8 – Special Rooms and Spaces

Chapter 9 – Built-in Furnishings and Equipment

Chapter 10 – Dwelling Units and Sleeping Units

Chapter 11 – Recreational Facilities



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**POP QUIZ !** Identify the elements of the accessible route shown in the following picture.

