

2018



PLANNING & DEVELOPMENT

**PRESERVE
SHAPE
BUILD**

**Self-Certification
Training
ACCESSIBILITY &
ACCESSIBLE
MEANS OF EGRESS**

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Many of you listening have taken college classes.

So, what is the minimum grade you need to achieve to get credit for the class?

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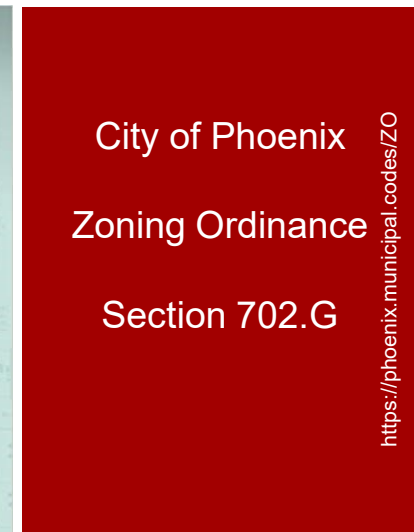
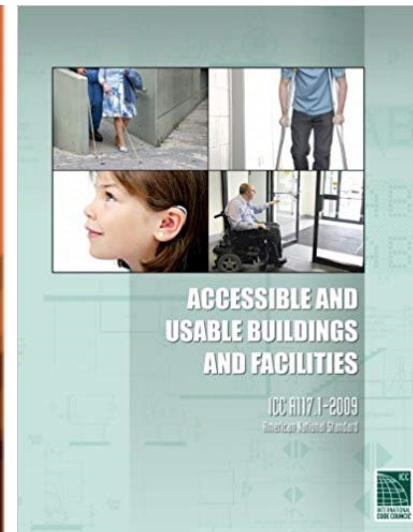
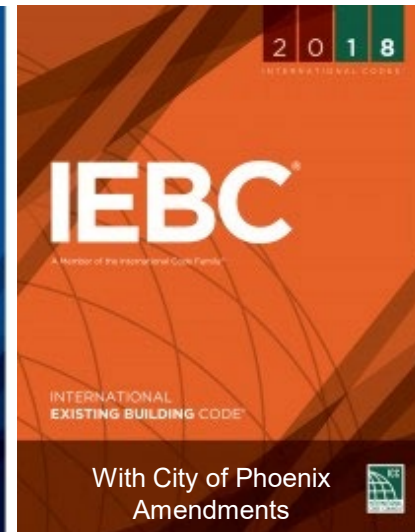
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CODES SPECIFY MINIMUM REQUIREMENTS

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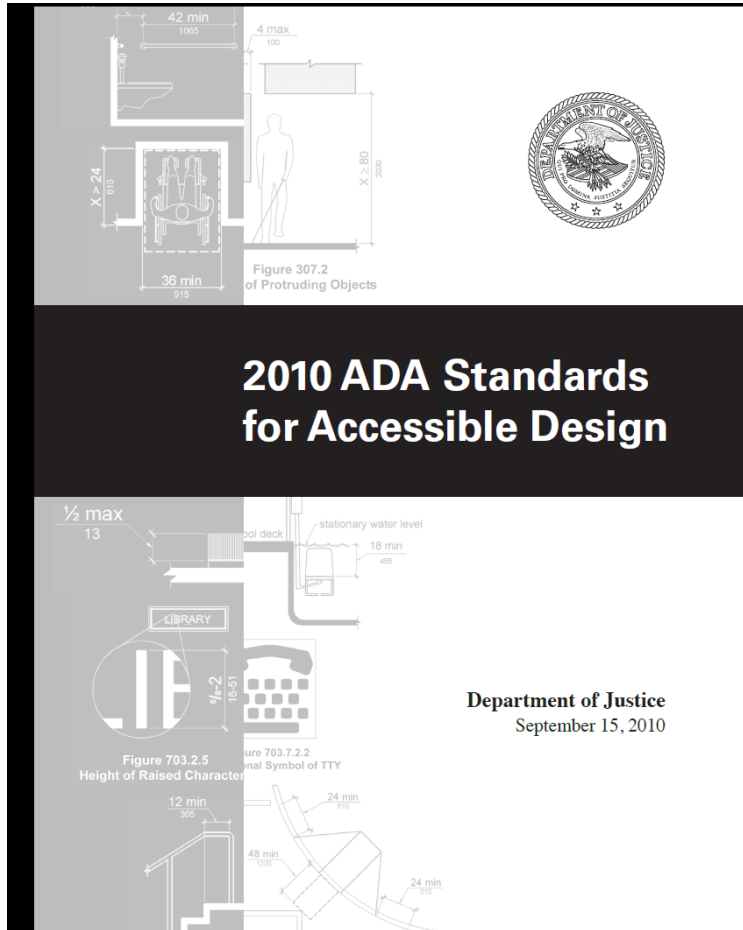
2018 International Building Code (IBC) with amendments
2018 International Existing Building Code (IEBC) with amendments
2009 ICC A117.1 Accessible and Usable Buildings and Facilities
City of Phoenix Zoning Ordinance (available online)



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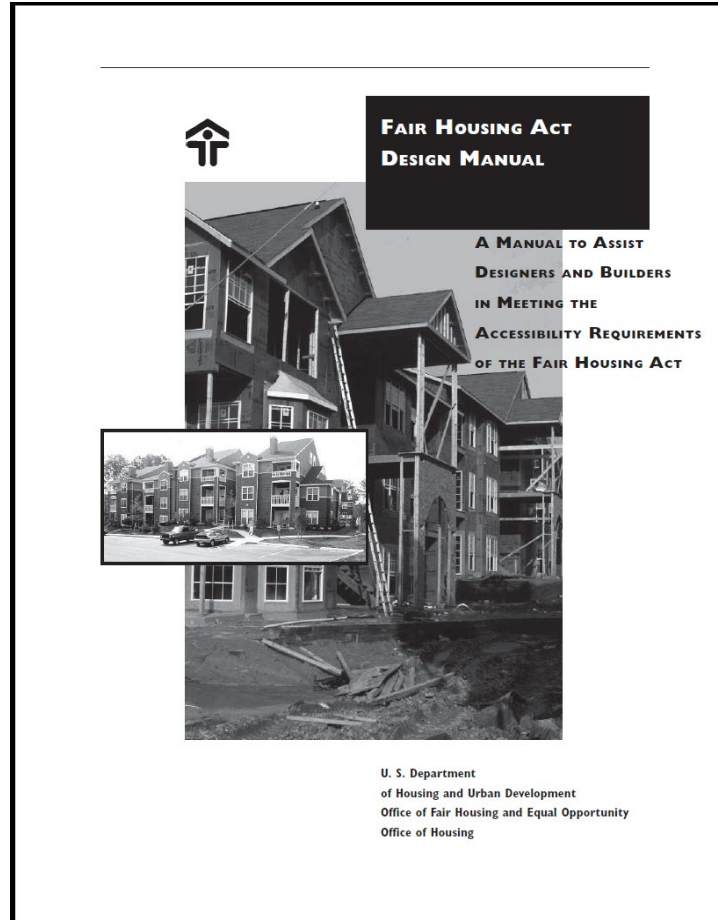
City of Phoenix
Street Transportation
Department

standards and
policies

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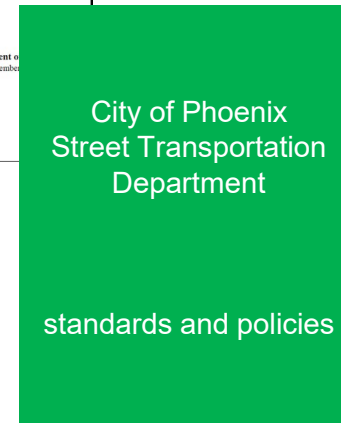
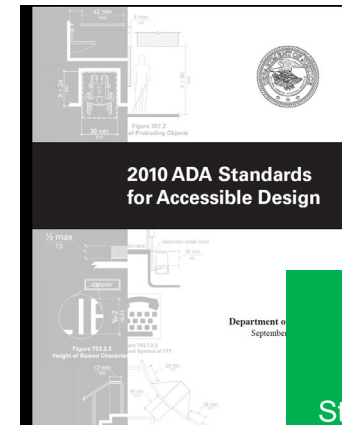
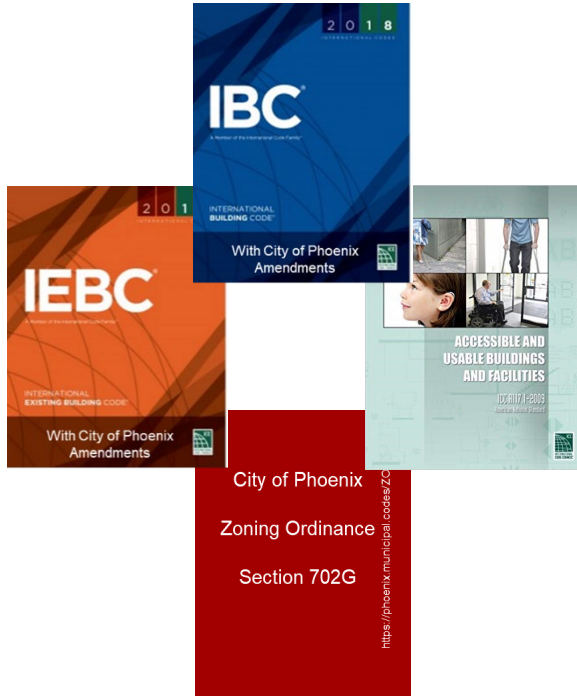
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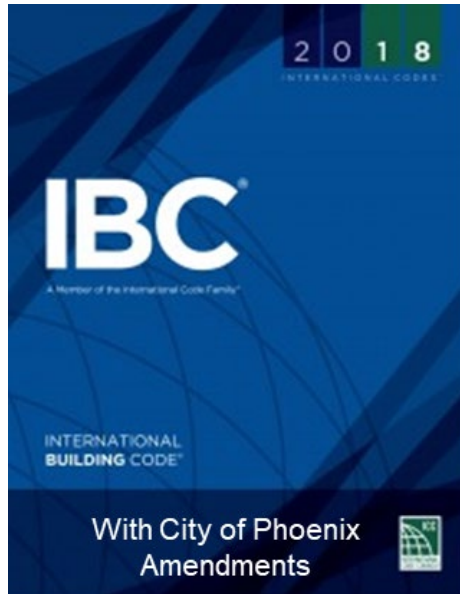
For work not in the Public
Right-of-Way

For work in the Public
Right-of-Way

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IBC document specifies the scope for the required accessibility features.



What type of dwelling units are required for the project?

How many Type A dwelling units are required?

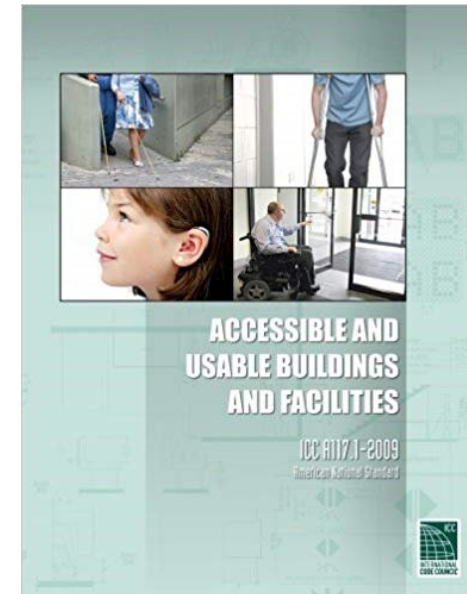
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ICC document gives you the minimum technical standards on how to make each required feature accessible.

How high and wide is the work surface in a Type A dwelling unit kitchen?

Where do the grab bar reinforcements need to be placed in the bathroom for a Type B dwelling unit?



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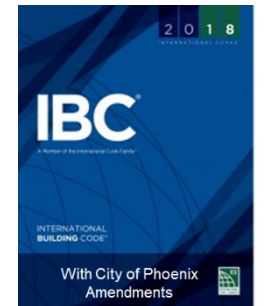


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- CHAPTER 10 - MEANS OF EGRESS

Section 1009 Accessible Means of Egress



- CHAPTER 11 - ACCESSIBILITY
- APPENDIX E - SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS

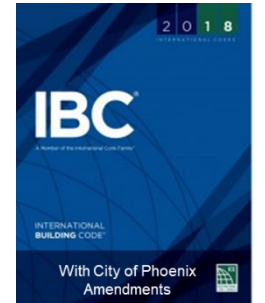
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Chapter 11 Accessibility

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



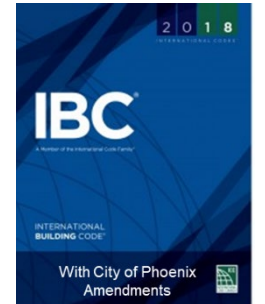
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Chapter 11 Accessibility – General Exceptions

- 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.



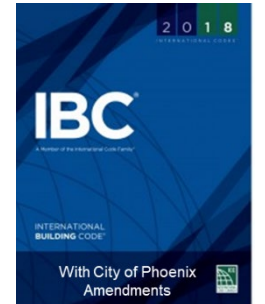
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Chapter 11 Accessibility – General Exceptions

- Raised / lowered areas in places of religious worship.
- Equipment spaces.
- Highway tollbooths.
- Residential Group R-1.
- Day care facilities.
- Detention and correction facilities.
- Walk-in coolers and freezers.



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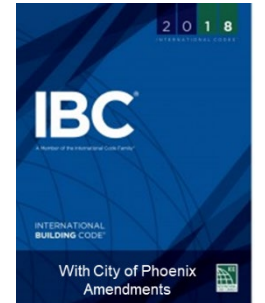


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Chapter 11 Accessibility – Accessible Route

Components that are allowed in an accessible route:

- Walking surfaces with slope not steeper than 1:20
- Doors and Doorways
- Ramps
- Curb Ramps excluding the flared sides
- Elevators
- Platform Lifts (wheelchair lifts, and LULA elevators)



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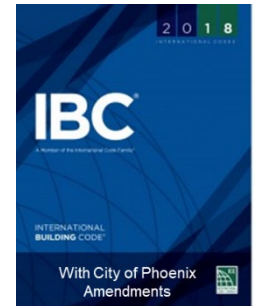


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Chapter 11 Accessibility – Accessible Route

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

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



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

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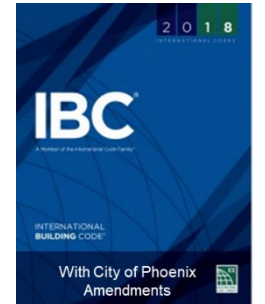


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Chapter 11 Accessibility – Accessible Route

At least one accessible route shall connect accessible buildings, accessible facilities, and accessible spaces.

An accessible route on site is not required to connect an accessible building, facility, or space where only a vehicular way is provided to that building, facility or space with no pedestrian access.



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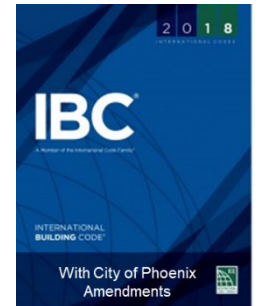
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Chapter 11 Accessibility – Accessible Route

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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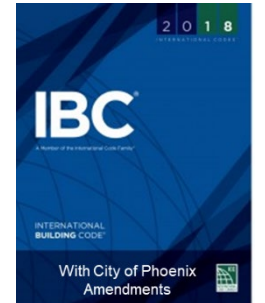


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Chapter 11 Accessibility – Accessible Route

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.

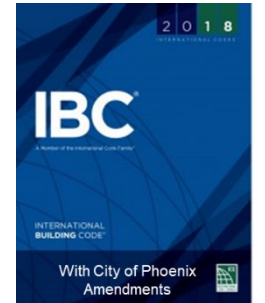
- Parking garage entrances

- Restricted entrances

- Service entrance (if it is the only entrance into an accessible space)

- Tenant space entrances

- Dwelling unit entrances (for Accessible, Type A, Type B units)



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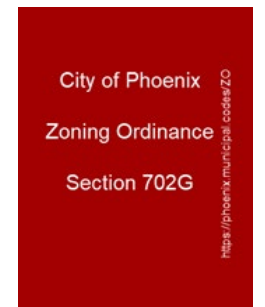
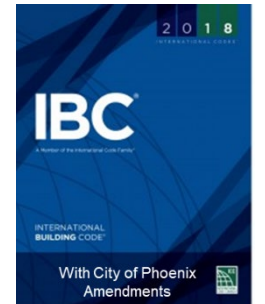
Chapter 11 Accessibility – Parking

Amendment deletes Section 1106 entirely and refers to –
City of Phoenix Zoning Ordinance (Section 702.G)

Other helpful documents:

City Parking Requirements Guidelines. TRT/DOC/00070

Accessibility Parking Standards. TRT/DOC/00433



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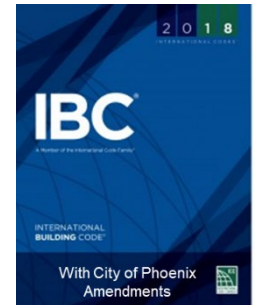


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Chapter 11 Accessibility – Dwelling Units and Sleeping Units

Dwelling Unit – includes:

living
sleeping
eating
cooking
sanitation



Sleeping Unit – includes:

sleeping
and either
cooking or sanitation

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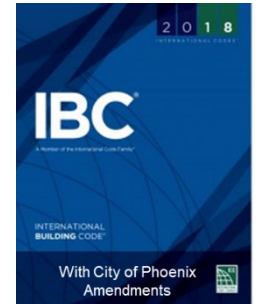


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Chapter 11 Accessibility – Dwelling Units and Sleeping Units

Types of Dwelling / Sleeping Units

- Accessible Unit – Ready to use, with full accessible features
- Type A Unit – Adaptable unit
- Type B Unit – Adaptable Unit (Represents Code's version of the FHA unit)



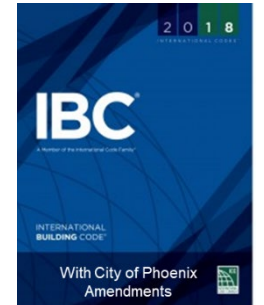
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Chapter 11 Accessibility – Dwelling Units and Sleeping Units

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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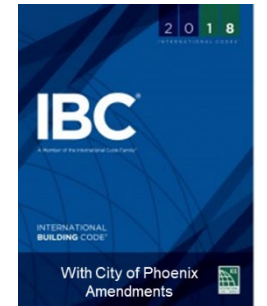
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Chapter 11 Accessibility – Special Occupancies

In 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 fixed companion seat.



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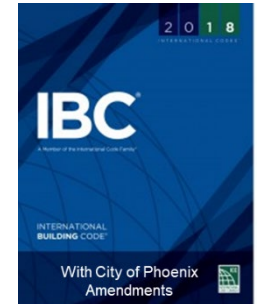


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Chapter 11 Accessibility – Special Occupancies

In 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.



In 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

All interior and exterior dining and drinking assembly areas shall be accessible. (See exceptions)



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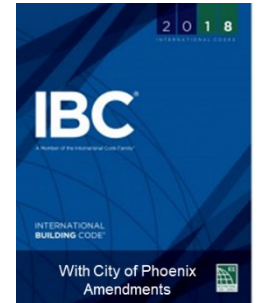
Chapter 11 Accessibility – Special Occupancies

In self-service storage facilities –

Accessible individual self-storage spaces shall be provided.

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

Accessible self-storage spaces can be located in one building and on one accessible story.



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Chapter 11 Accessibility – Special Occupancies

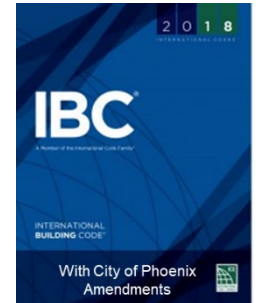
In judicial facilities –

Courtrooms shall be accessible.

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

Fixed gallery seating shall have wheelchair spaces and companion seats.

Elevated work-stations can be accessed with wheelchair lifts.



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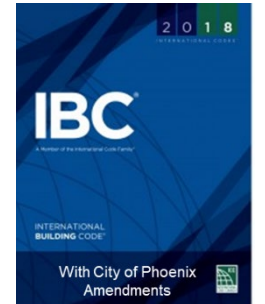
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Chapter 11 Accessibility – Other Features and Facilities

Toilet and bathing facilities –

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

Single-user facilities also 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.

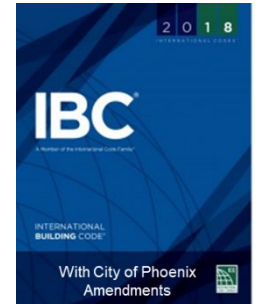
Kitchens and kitchenettes shall be accessible.

Drinking fountains 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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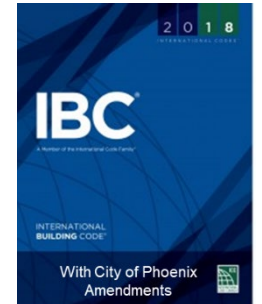


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Chapter 11 Accessibility – Other Features and Facilities

Platform Lifts – Can be a component of an accessible route in 10 specific listed locations.

1. Maintain accessible route to performing areas and speaker platforms
2. To fixed seat assembly areas for required WC space dispersion
3. Maintain accessible route to lawn & overflow assembly seating areas
4. Maintain accessible route inside dwelling and sleeping units
5. Maintain accessible route to raised courtroom stations
6. On accessible routes at load / unload areas for amusement rides
7. Maintain accessible route to play areas
8. Maintain accessible route to team / player seating in sports activity areas
9. Maintain accessible route to boating and fishing piers and platforms
10. Maintain accessible route on exterior sites where ramps and elevators are not infeasible



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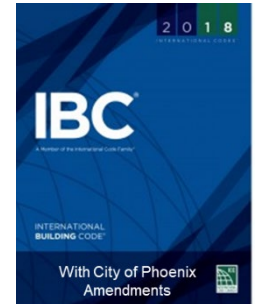
Chapter 11 Accessibility – Other Features and Facilities

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.

For Public Right-of-Way refer to the ADA and the standards and policies of the City of Phoenix Street Transportation Department



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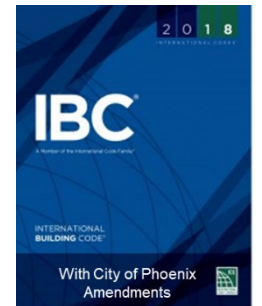


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Chapter 11 Accessibility – Other Features and Facilities

Dining surfaces, counters and work surfaces – 5% but not less than one shall be accessible.

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



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Chapter 11 Accessibility – Other Features and Facilities

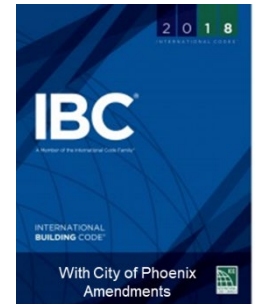
Dressing, fitting, and locker rooms – 5% but not less than one of each type shall be accessible.

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)



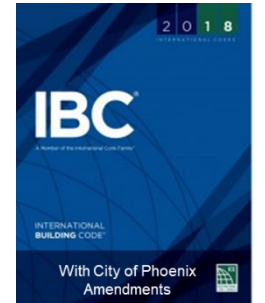
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Chapter 11 Accessibility – Other Features and Facilities

Listed recreational facilities shall be accessible in the quantities specified.



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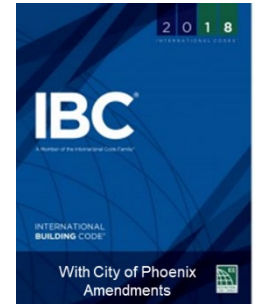
Chapter 11 Accessibility – Signage

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.



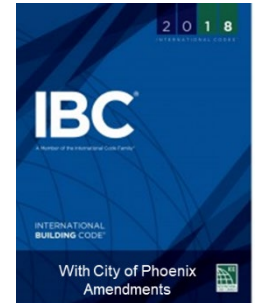
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Section 1009 Accessible Mean of Egress

This presentation assumes that an NFPA 13 or NFPA 13R automatic sprinkler system is present in the building.



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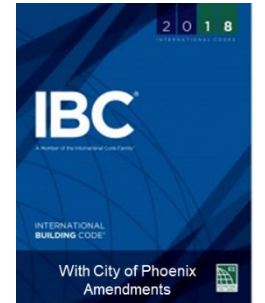
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Section 1009 Accessible Mean of Egress

Accessible Means of Egress is required from all accessible spaces, not just those that are required to be accessible.

If one means of egress is required, then that means of egress shall be an ***Accessible Means of Egress***.

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 Mean of Egress

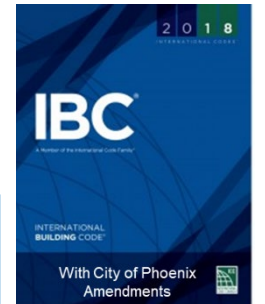
Accessible Means of Egress

≠

Accessible Route

- Accessible Routes
- Interior Exit Stairways
- Interior Exit Access Stairways *Between Stories Only*
- Exterior Exit Stairways
- Horizontal Exits
- Areas of Refuge (not required when sprinklered)
- 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



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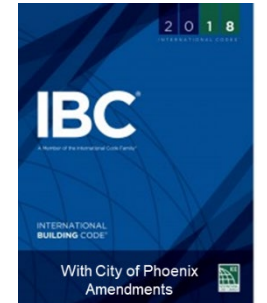


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Section 1009 Accessible Mean of Egress

You do not need assistance on an Accessible Route.

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



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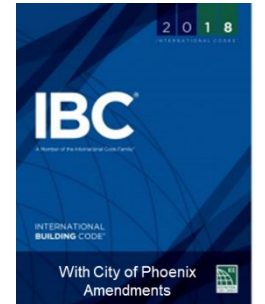


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Section 1009 Accessible Mean of Egress

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

1. Risers must 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 unless an Exterior Area for Assisted Rescue is provided on the egress side of the stair.



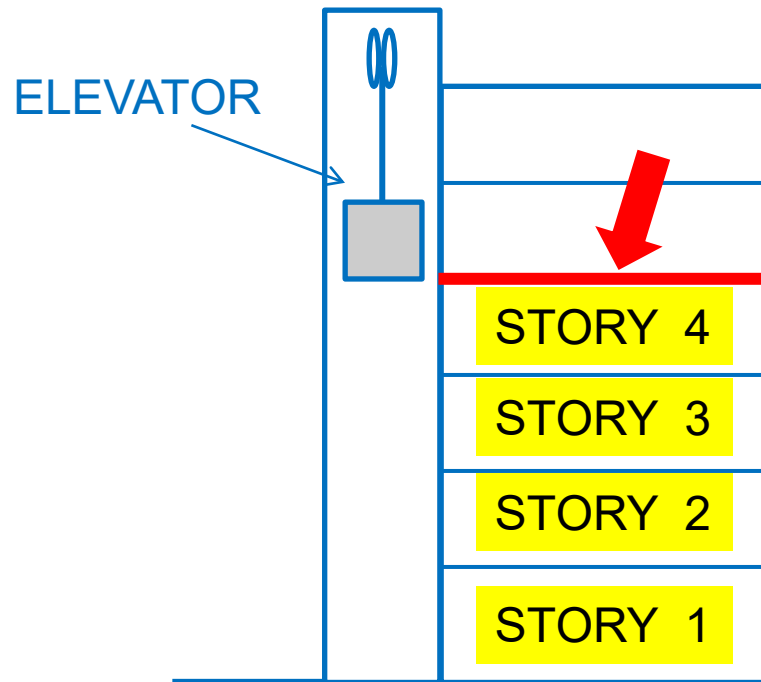
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Section 1009 Accessible Mean of Egress

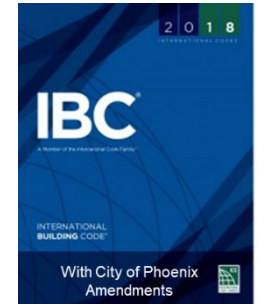
Elevators -



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

Elevators require standby power, and 2-way communications.

LEVEL OF EXIT DISCHARGE



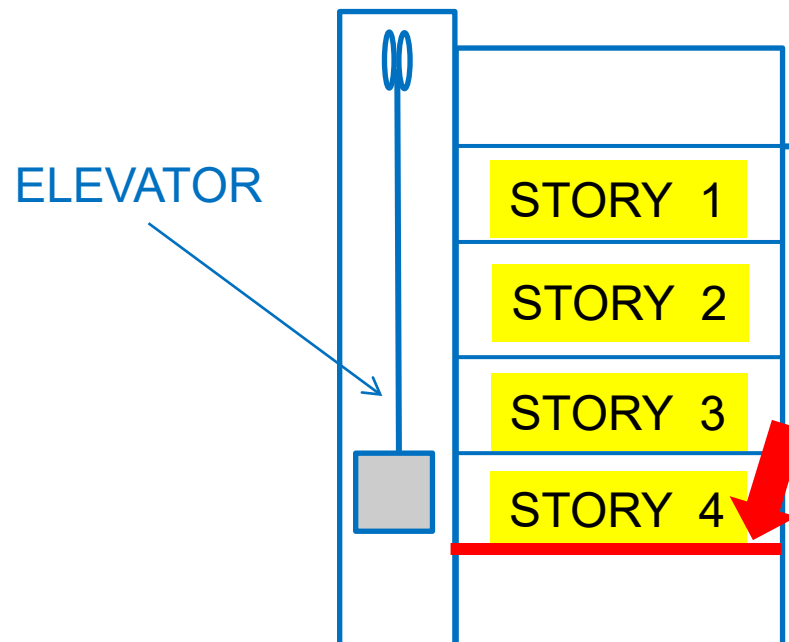
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Section 1009 Accessible Mean of Egress

Elevators -



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.



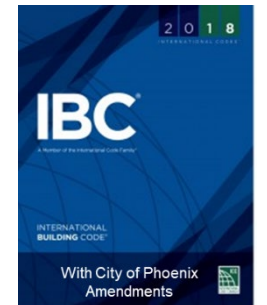
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Section 1009 Accessible Mean of Egress

Platform Lifts -



Platform lifts require standby power when they are used as a component of the accessible means of egress.

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Section 1009 Accessible Mean of Egress

Platform Lifts – Can be a component of an accessible means of egress in 9 specific listed locations.

1. Maintain accessible route to performing areas and speaker platforms
2. To fixed seat assembly areas for required WC space dispersion
3. Maintain accessible route to lawn & overflow assembly seating areas
4. Maintain accessible route inside dwelling and sleeping units
5. Maintain accessible route to raised courtroom stations
6. On accessible routes at load / unload areas for amusement rides
7. Maintain accessible route to play areas
8. Maintain accessible route to team / player seating in sports activity areas
9. Maintain accessible route to boating and fishing piers and platforms



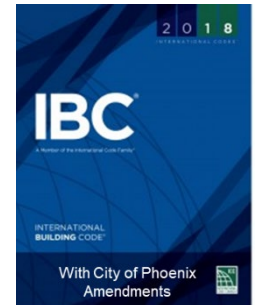
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Section 1009 Accessible Mean of Egress

Platform Lifts -



Cannot use a lift on an exterior site as a substitute for a ramp or elevator as a component of an accessible means of egress.

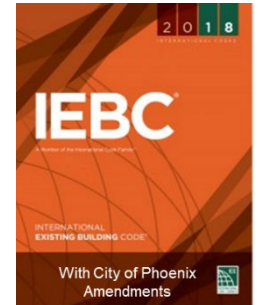
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Accessibility

Reducing accessibility below the level required for a new building is prohibited.



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Accessibility

Alterations – Required to be accessible per IBC Chapter 11.

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



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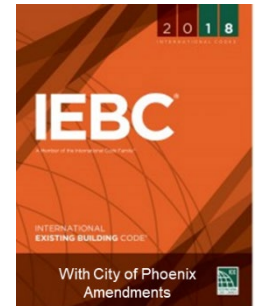


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Accessibility

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

Cost of providing an 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.



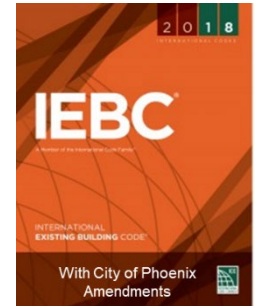
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Accessibility

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,

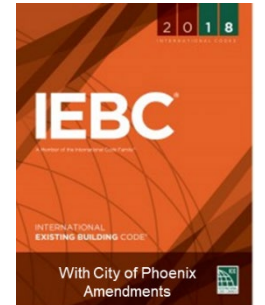
At least one accessible route from entry to primary function area,

Signage per IBC section 1111,

Accessible parking (when parking is in the scope of work),

Accessible loading zone (when loading zones are in the scope of work),

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



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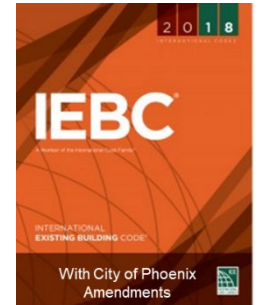
Accessibility

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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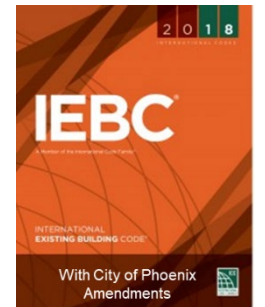
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Accessible Means of Egress

Additions – Required in new construction per IBC Section 1009.

Alterations – Not required.

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



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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 ! Is this an accessible route?



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Questions?

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