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A collaborative program between the
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U.S. Access Board



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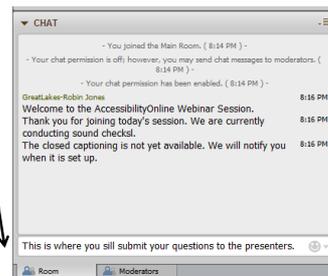
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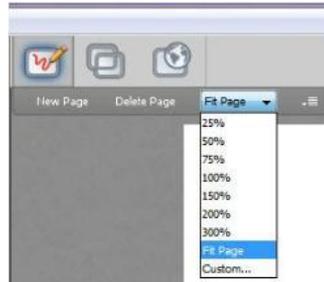
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Accessible Places of Education

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Today's Presenters

U.S. Access Board



Juliet Shoultz, P.E



Bill Botten

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Session Agenda

- Standards
- Covered Facilities
- Site Arrival & Accessible Routes
- Classrooms & Common Use Areas
- Toilet & Bathing Facilities
- Recreation Facilities
- Questions

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ADA Standards (2010)

Apply to:

- places of public accommodation
- commercial facilities
- state & local government facilities



**In new construction, alterations,
and additions**

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Application

- **All areas of newly designed and newly constructed buildings and facilities and altered portions of existing buildings and facilities. General exceptions:**
 - **Construction sites**
 - **Limited Access Spaces**
 - **Machinery Spaces**
 - **Employee Work Areas**
 - **Areas raised primarily for purposes of security**

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Covered Facilities



- **Pre-Schools**
- **Elementary Schools**
- **Middle Schools**
- **High Schools**
- **Colleges and Universities**
- **Trade Schools**

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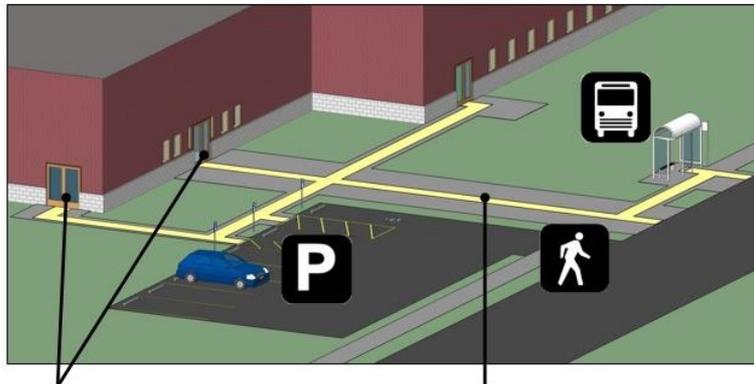
Scoping

- **Parking**
- **Accessible routes**
- **Entrances**
- **Classrooms and Common Use Areas**
- **Toilet and Bathing rooms**
- **Dormitories & Graduate Housing**
- **Recreation Facilities**

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Site Arrival Points

Site arrival points include accessible parking spaces and accessible passenger loading zones, public transit stops located on sites, and public streets and sidewalks.



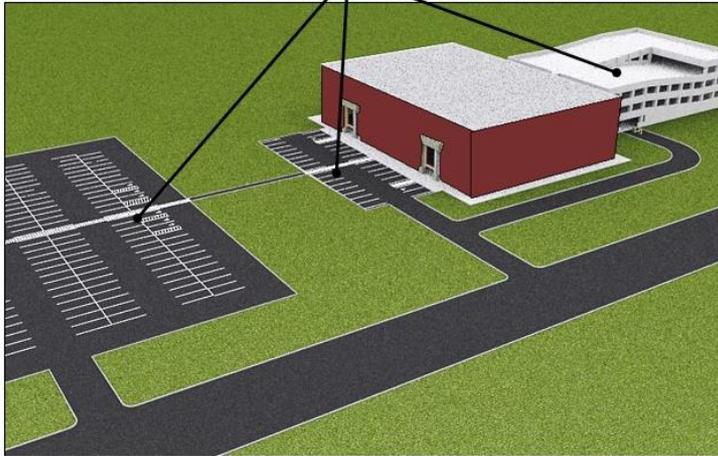
An accessible route must connect site arrival points to each accessible entrance they serve.

Accessible routes must coincide with, or be in the same vicinity as, general circulation paths (§206.3).

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Accessible Parking

The required number of accessible spaces, including van spaces, is calculated separately for each parking lot and garage on a site. Accessible spaces must be dispersed among accessible entrances and be located on the shortest accessible route to the entrance they serve.



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Accessible Parking Scoping

Table 208.2 Parking Spaces

Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

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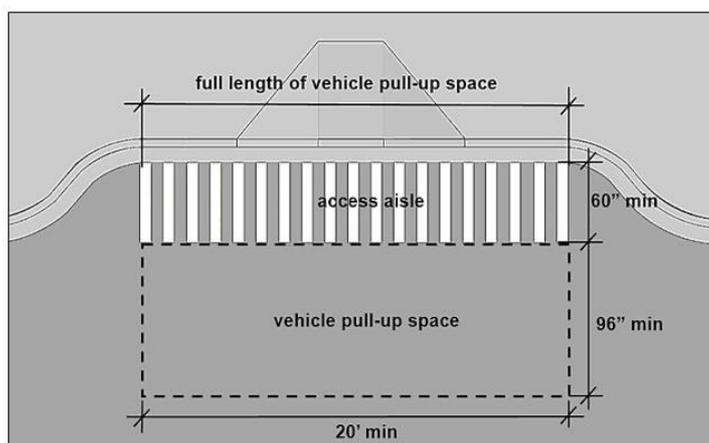
Passenger Loading Zones



At least 1 accessible passenger loading zone for every continuous 100 linear feet (or a fraction thereof) of passenger loading zone space.

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Accessible Passenger Loading Zones

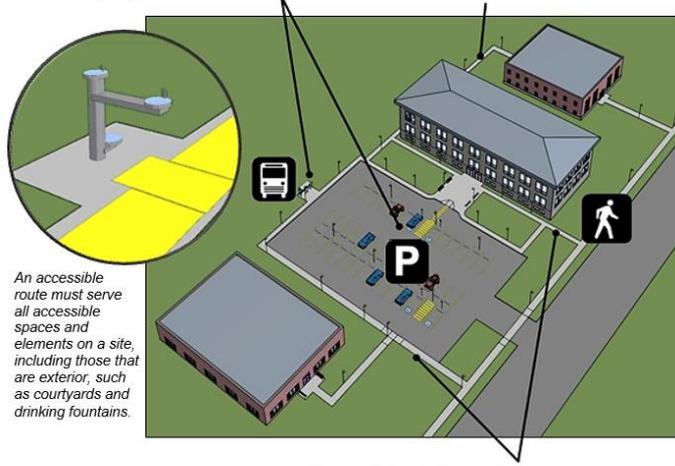


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Accessible Routes

An accessible route must connect site arrival points such as accessible parking spaces, passenger loading zones, and transportation stops to each accessible facility they serve.

An accessible route within the boundary of the site must connect each facility on a site (except those connected only by a vehicular way that does not provide pedestrian access).



An accessible route must serve all accessible spaces and elements on a site, including those that are exterior, such as courtyards and drinking fountains.

An accessible route from public streets and sidewalks must connect directly or indirectly to all accessible facilities and elements on a site.

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Accessible Route Location

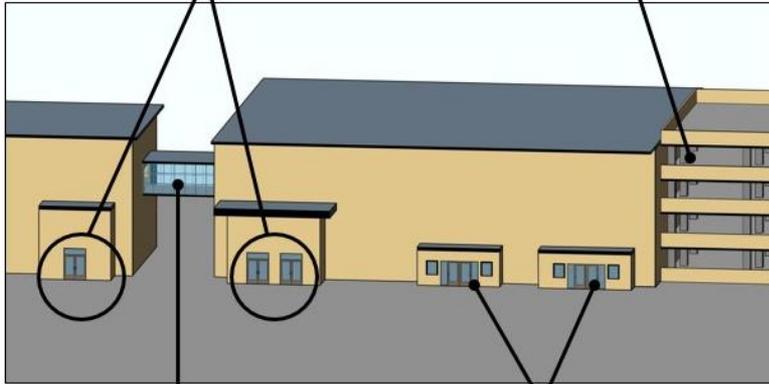


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Accessible Entrances

At least 60% of public entrances in addition to the other types of entrances required to comply

At least one entrance serving each direct access from parking structures



At least one entrance from each elevated walkway or pedestrian tunnel

At least one entrance to each tenancy in a facility

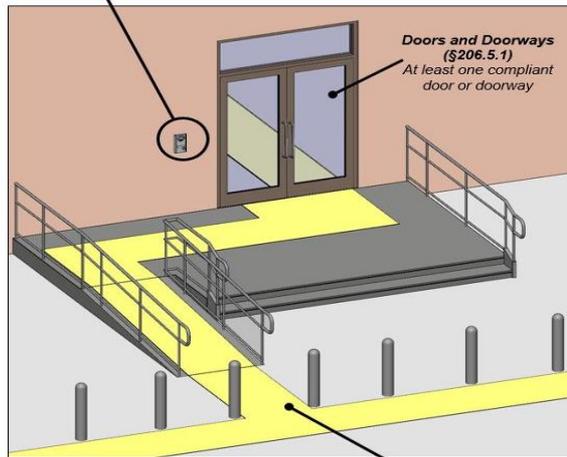
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Elements of an Accessible Entrance

Communication Systems (§230)
Two-way communication systems, where provided, must be equipped with visual and audible signals and compliant as operable parts



Designation (§216.6)
International Symbol of Accessibility label (not required if all public entrances are accessible)



Doors and Doorways (§206.5.1)
At least one compliant door or doorway

Accessible Route (§206.3)
Accessible route to entrance from site arrival points and located in the same area as general circulation paths

Security Barriers (§206.8)
Bollards and other security barriers cannot obstruct accessible routes

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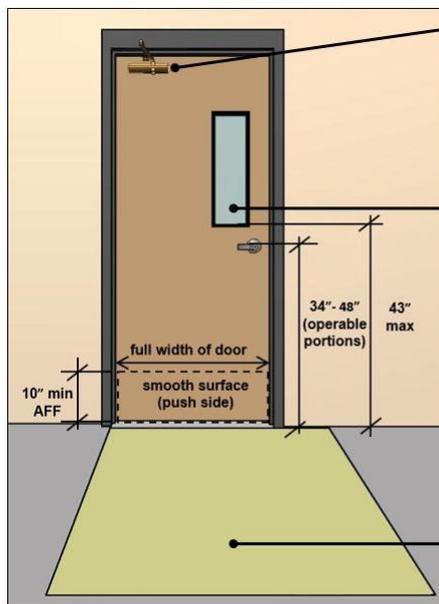
Two-Way Communication Systems



- **Communication devices must include both visual and audible signals**

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Doors, Doorways and Gates



Closing Speed (§404.2.8)

Closers: 5 sec. min.
from 90° to 12°
(spring hinges: 1.5 sec.
min. from 70° to 0°)

Opening Force (§404.2.9)

5 lbf max.
(excluding exterior hinged
doors and fire doors)

**Vision/ Side Lights (if
provided) (§404.2.11)**

Accessible viewing height
43" max. unless not
intended for viewing
(i.e., lowest part above 66")

Hardware (§404.2.7)

Operable parts must
comply

Smooth Surface (§404.2.10)

Required at the bottom on
the push side

Thresholds (§404.2.5)

1/2" max. high
(beveled if above 1/4")

**Maneuvering Clearance
(§404.2.4)**

required on both sides
(unless door or gate is used
in one direction only)

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Exterior Doors

Automation recommended (not required)

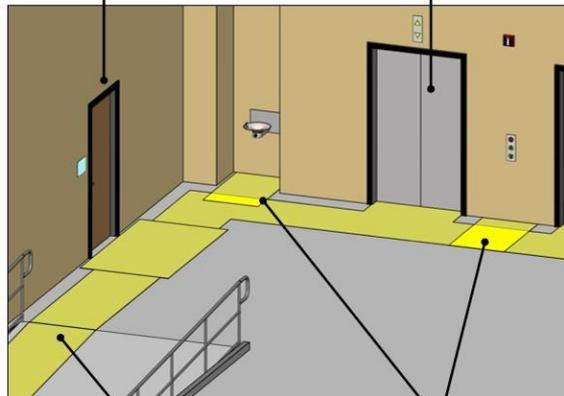


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Interior Accessible Routes

An accessible route from facility entrances is required to each accessible room, space, and element.

Vertical access between stories is required in most multi-story facilities, but exceptions are permitted for some non-governmental facilities under a certain size or number of stories.

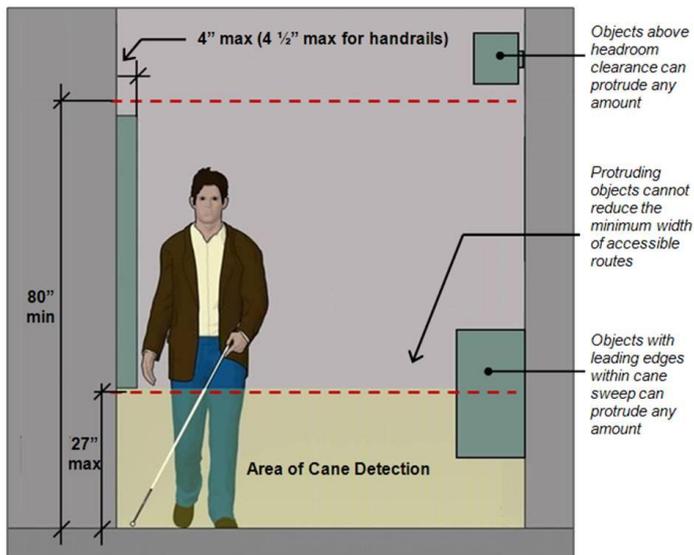


Accessible routes must serve each level on a floor required to be accessible. Vertical access can be achieved by ramps, curb ramps, elevators or, where permitted, platform lifts.

Accessible routes must connect to an unobstructed side of the clear floor space required at accessible elements.

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Protrusion Limits



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Protruding Objects



Alcove or wing wall removes the drinking fountain from the circulation path

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Service & Sales Counters



- **Requirements:**
 - Surface 36" high max
 - Forward or side approach
 - Length based on approach
- **Applicable Areas**
 - Book store
 - Retail space
 - Library
 - Cafeteria
 - Stadiums/Arenas

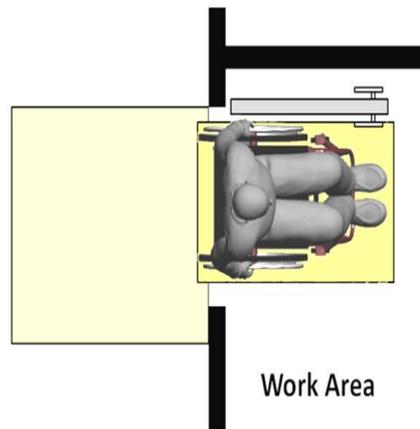


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Employee Work Areas

Access for "approach, entry and exit"

- **Connecting accessible route to work area**
- **Compliant entrance, including entry doors or gates**
- **Clear floor space within the work area**
- **Means of Egress as required by the IBC**



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Signs (§216)

- Tactile/ visual – labels for permanent rooms & spaces, exit doors
- Visual only – directional or informational signs
- Exempt: temporary signs, building menus, directories, addresses, company names and logos



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Visual Alarms

Visual alarms, where required, must be located in toilet and bathing facilities and all other public and common use spaces



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Classrooms and Common Use Areas

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Laboratories

- **Work surfaces**
- **Operable parts**
- **Sinks**
- **Storage**
- **Accessible route**

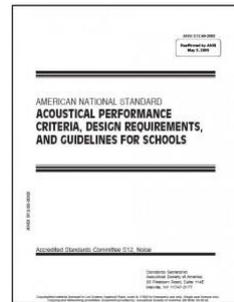


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Classroom Acoustics

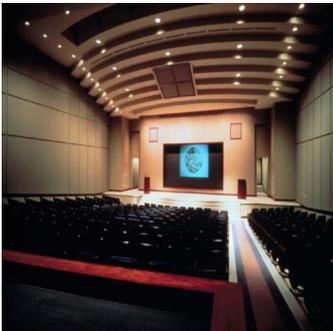
- **ANSI/ASA S12.60 CLASSROOM ACOUSTICS STANDARD**

- Permanent Schools (Part I)
- Relocatable Classrooms (Part II)



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Assembly Areas



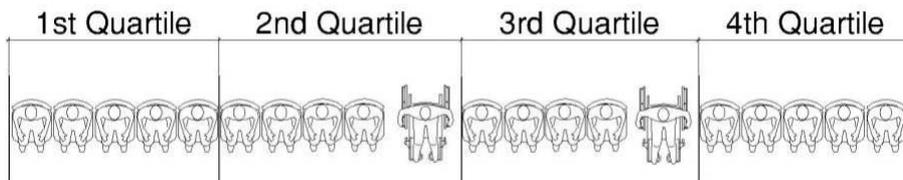
- Fixed seating
- Furniture
- Wheelchair locations
 - Companion seating
- Designated aisle seats
- Direct access to performance area
- Audible amplification

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Assembly Areas

Horizontal Dispersion

**Exception (300 seats max.) if:
Spaces & companion seats located in
the 2nd or 3rd quartile of row**

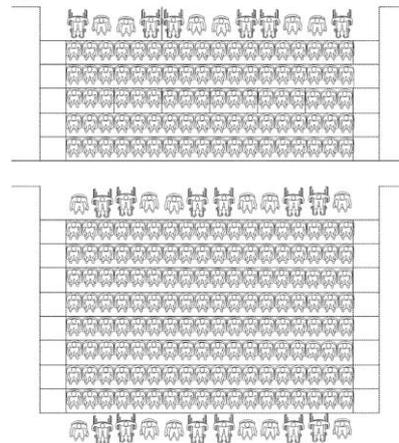


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Assembly Areas

Vertical Dispersion

- **Exception (300 seats max.) if:**
- **Viewing angles = better than the average viewing angles in the assembly area**
- **Exception for bleachers**



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Cafeterias



- Tables on accessible routes
- Tray slide height – 28” min. and 34” max.
- Self-service shelves and dispensing devices
- Check-out counters
- 5% scoping at dining surfaces

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Libraries

- Work surfaces
- Service counters
- Fixed seating
- Aisle widths



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Housing

DOJ/ADA: Transient Lodging: §35.151(f) and §36.406(e)

Hotels, motels, **dormitories**; and

Housing at a place of education

Kitchens - fully accessible, turning space and work surfaces

Accessible route throughout the unit

DOJ/ADA: Residential Dwelling Units: §35.151(e) & §36.406(d)

Graduate student/faculty housing with no space for educational programming and leased year-round.



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Housing at a Place Of Education



For sinks not permitted – transient lodging

Removable Cabinetry under Kitchen Sinks and Work Surfaces



For work surfaces permitted – 804.3.1 Exception

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Sinks and Lavatories

- **212.3 Sinks.** Where sinks are provided, at least 5 percent, but no fewer than one, of each type provided in each accessible room or space shall comply with 606.
- **EXCEPTION:** Mop or service sinks shall not be required to comply with 212.3.



Exceptions: A knee clearance of 24 inches min. shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches max.

A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.

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Children's Lavatories

Exceptions based on age of intended users

Ages 6 - 12:

**24" high min. knee clearance allowed
(if lav. 31" high max.)**

Ages 5 and under:

Side approach permitted

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Drinking Fountains (§602)

Where provided, drinking fountains must comply:

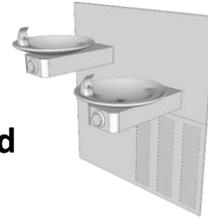
Both wheelchair access & standing access

At least 2 units or bowls

50% scoping for multiple units

Scoping applies separately by floor, secured area, exterior site

Water coolers, sinks, bottle fillers can't substitute for seated or standing access where DF provided



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Toilet Facilities

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Toilet Rooms

- Where provided - all
- Single user - at least 50% of single user toilet rooms clustered at one location that serve the same users
- Portable units - 5% not less than 1 at each cluster

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Toilet Rooms in classrooms

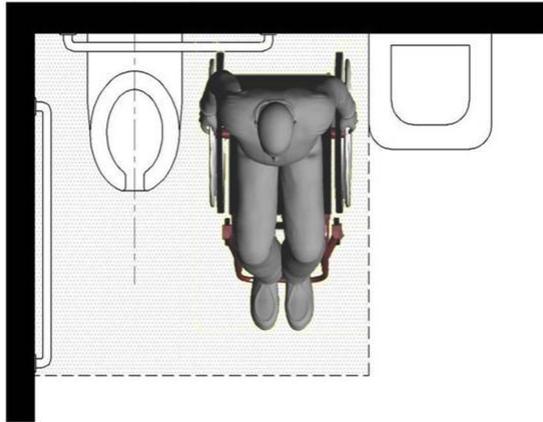
- Those *within* classrooms are required to be accessible.



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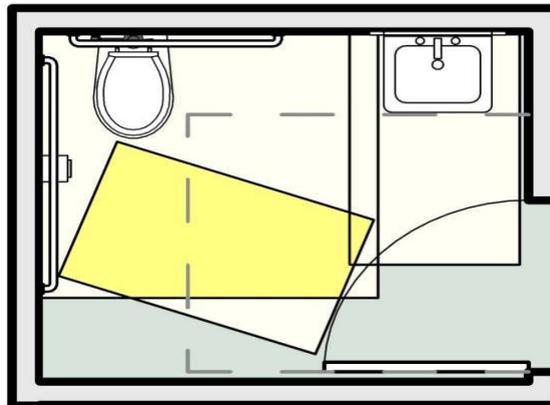
Water Closet Clearance

Allows space for side transfers



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Toilet Room



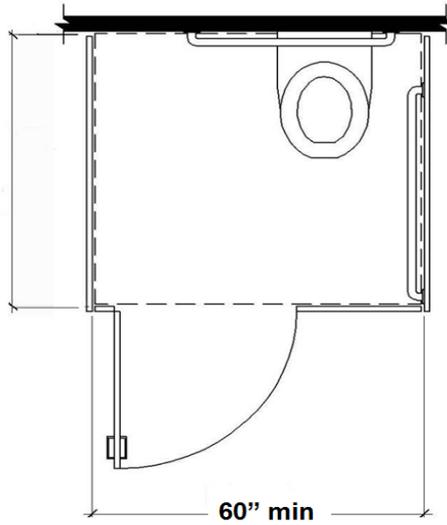
Door can swing into fixture clearances where unobstructed wheelchair space is available beyond

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Toilet Stalls

Standard Stall

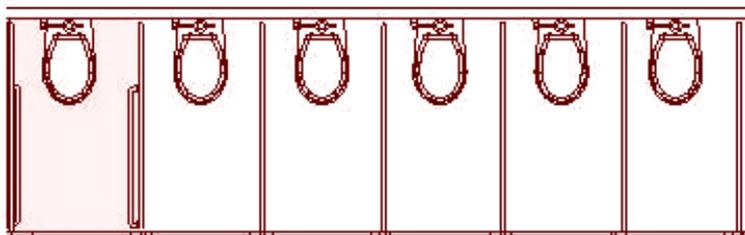
56" min. (wall hung WC)
59" min. (floor-mounted or children's WC)



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Ambulatory Stall

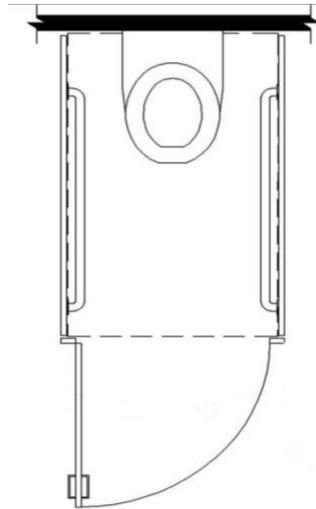
Required where 6 or more stalls provided



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Ambulatory Stall

- Parallel grab bars
- Doors: out-swinging, self-closing
- Width: 35" – 37"
- Depth: 60" min.



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Children's Toilets

Advisory information provides guidance according to age group

	Ages 3 & 4	Ages 5 - 8	Ages 9 - 12
WC Centerline	12 in	12 - 15 in	15 - 18 in
Toilet Seat Height	11 - 12 in	12 - 15 in	15 - 17 in
Grab Bar Height	18 - 20 in	20 - 25 in	25 - 27 in
Dispenser Height	14 in	14 - 17 in	17 - 19 in



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Bathing Facilities

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Bathing facilities

Access to all public and common use facilities, including:

- Gym/ pool shower rooms
- Employee locker rooms

At least one shower or tub required

Options:

- Transfer shower stall
- Roll-in shower
- Tub

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Transfer Shower



- **Seat required**
- **½" curb allowed**
- **Absolute stall dimensions**
- **Grab bars can be continuous or split**

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Roll-In Shower



- **Folding seating can be provided (required for some transient lodging guest rooms)**
- **½" beveled curb allowed**
- **Grab bars can be continuous or split**

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Recreation Facilities

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Play Areas



- **Connection to site arrival**
- **Ground accessible routes**
Clear width = 60"
- **Surface**
- **Elevated accessible routes**
- **Ground level play components**
- **Elevated play components**

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Longitudinal Study on Playground Surfaces

Surfacing the Accessible Playground

7 Things Every Playground Owner Should Know About the Accessibility of Their Playground Surfaces

A publication of the U.S. Access Board and the National Center on Accessibility

Selecting an Accessible Play Surface Is One of the Most Important Decisions

2014

- 1 Start with a comprehensive planning and site selection.
- 2 Follow the Accessibility Standards for Play Areas.
- 3 Review the research findings about accessibility issues for play surfaces.
- 4 Assess during the planning, installation and maintenance phases.
- 5 Compare surface options.
- 6 Recognize that proper installation of play surface systems is key.
- 7 Commit to ongoing maintenance of accessible playground surfaces as a responsibility of ownership.

The U.S. Census Bureau's American Community Survey (2011) estimates there to be 2.8 million school-aged children with disabilities in the United States. The Census Bureau (2009) estimates that one in every seven American families is affected by disability. For children with and without disabilities, the community playground can facilitate a positive environment for physical activity and inclusion. Today, lack of physical activity is considered one of the leading factors contributing to poor health among children. The neighborhood playground fulfills a critical role in community wellness, enabling children to play with friends and burn calories at the same time.

When the playground has barriers prohibiting use by a child with a disability, the opportunity for play and physical activity is lost. Inaccessible surfaces can pose barriers for children with disabilities who may use canes, crutches, walkers or wheelchairs from maneuvering through the play area. Pushing a wheelchair over loose gravel or sand requires tremendous physical effort. When so much effort is exerted, little to no energy is left for play.

The presence of physical barriers can prevent children with disabilities from accessing all play elements on the playground. Most significantly, inclusive play between children with disabilities and children without disabilities is threatened when the playground does not have accessible equipment and surfaces. Physical barriers also prohibit adult caregivers with disabilities from engaging with their children and/or responding when a child is in need of assistance.

Recreation professionals and playground owners are confronted with questions of how to install and maintain safe and accessible public playgrounds that are fun; promote inclusion and physical activity; are cost effective and able to withstand a full life cycle of public use.

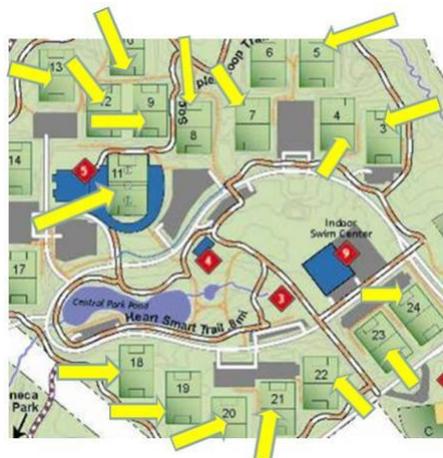
Choosing play surfaces that are accessible and that can be maintained as accessible surfaces, becomes one of the most important decisions during the playground planning and design phases. The purpose of this guide is to provide practical information that every public playground owner should know about the accessibility of their playground surfaces.



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Area of Sport Activity

- Accessible route to each area of sport activity
- Exempt from firm, stable, and slip resistant surface



Sport Activity – Court Sports

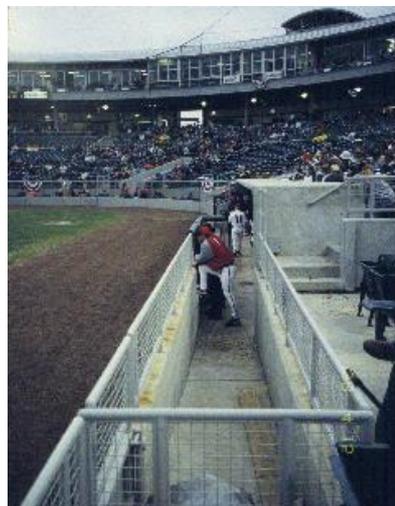
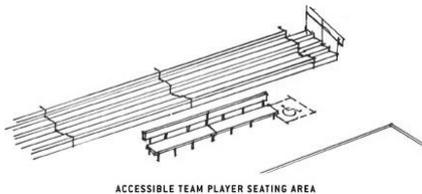


- Accessible route to directly connect both sides of the court

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Team player seating areas

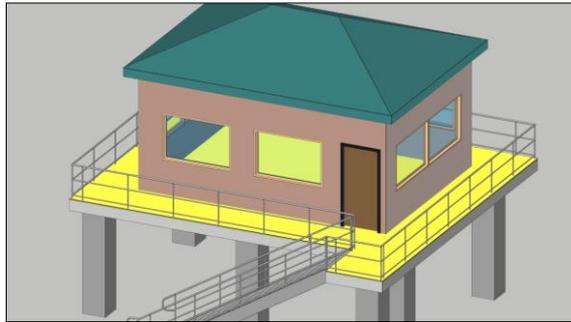
- Platform lift permitted



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Press Boxes

Square footage applies to the gross floor area (including exterior) of all press boxes serving a playing field or other assembly area

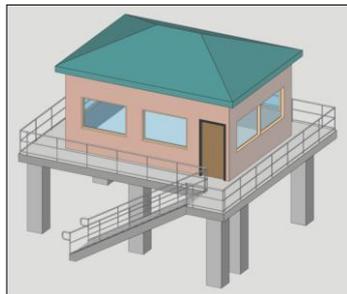
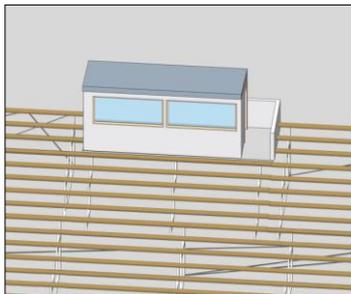


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Exceptions: Press Boxes

Exempt if 500 sq ft or less (aggregate) and

- **Located on bleachers entered on 1 level**
- **or elevated 12' or more (free standing)**



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Exercise Equipment

One of each type:

- No requirement to modify equipment
- Clear space at equipment
- Controls and operating mechanisms exempt



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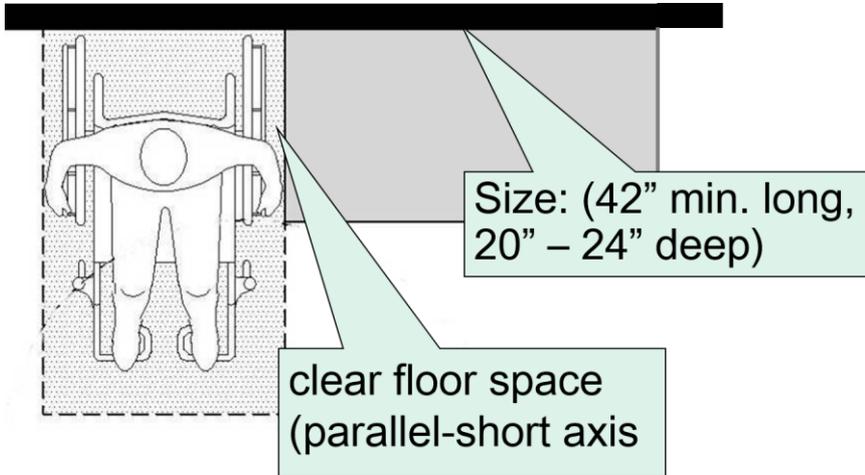
Dressing, Fitting, & Locker Rooms

Access to at least 5% of each type of use in each cluster



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Benches



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Swimming pools (§242.2)

- Required means of access into the water
 - Over 300 linear ft of pool wall = 2 (one primary)
 - Less than 300 linear ft of pool wall = 1
 - lift or sloped entry



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Temporary Facilities (201.3)



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Questions?

**You may type and submit questions in the
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and enter text in the Chat Area**

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Technical Guides on the Standards

Available the Board's website



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Advancing Full Access and Inclusion for All

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Continuing Education



AIA Provider Number: I017

Course Title: Accessible Education Facilities

AIA Course Number: GL20190801

Date: August 1, 2019

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September 5, 2019

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