



The United States Access Board is an independent federal agency that promotes equality for people with disabilities through leadership in accessible design and the development of accessibility guidelines and standards.

2010 ADA Standards for Accessible Design

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ADA Coverage

Private sector (title III)

- Places of Public Accommodation
- Commercial Facilities



Public Sector (title II)

- State & Local Government Facilities
- Public transit facilities (titles II & III)

Existing facilities

*A facility in existence
on any given date...*

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What Standards Apply to ADA Existing Facilities?

- **Title II – Program accessibility**
- **Title III – Readily achievable barrier removal**

***For more information, contact DOJ
@ 800 514-0301***

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Safe Harbor – Existing Facilities

- **Elements that comply with 1991 Standards do not need to be modified to meet the 2010 Standards unless those elements are altered on or after March 15, 2012.**

Safe Harbor does not apply to elements in existing facilities that were not subject to specific requirements in the 1991 Standards

For more information, contact DOJ @ 800 514-0301

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Elements in 2010 Standards Not Subject to Safe Harbor

- | | |
|---|---|
| (A) Residential facilities and dwelling units | (I) Saunas and steam rooms |
| (B) Amusement rides | (J) Swimming pools, wading pools, and spas |
| (C) Recreational boating facilities | (K) Shooting facilities with firing positions, |
| (D) Exercise machines and equipment | (L) Miscellaneous. |
| (E) Fishing piers and platforms | (1) Team or player seating |
| (F) Golf facilities | (2) Accessible route to bowling lanes |
| (G) Miniature golf facilities | (3) Accessible route in court sports facilities |
| (H) Play areas | |

For more information, contact DOJ @ 800 514-0301

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ABA Coverage

Applies to facilities designed, built, altered or leased with Federal funds

- **Federal buildings (e.g., post offices)**
- **Non-Federal buildings (e.g., school built with Federal money)**



Architectural Barriers Act (ABA)

- Federal facilities covered
 - Intended for use by the public OR may result in the employment or residence of individual with disabilities
 - Constructed or altered by, or on behalf of
 - Leased in whole or in part
 - Financed in whole or in part by a grant or loan



Plumbing Elements & Facilities (Chapter 6)

- Drinking Fountains
- Toilet & Bathing Rooms
- Water Closets & Toilet Compartments
- Urinals
- Lavatories & Sinks
- Bathtubs
- Shower Compartments
- Grab Bars
- Seats
- Washing Machines & Clothes Dryers
- Saunas & Steam Rooms



Drinking Fountains (211)

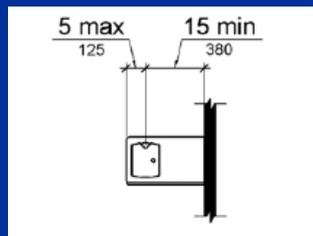
Where provided -- exterior site, floor, or secured area

- 2 required (wheelchair & standing access)
- Alternative: single unit with dual access (e.g., “hi-lo” units)
- Multiple installations: 50% of each type



Drinking Fountains (602)

- Forward approach - all wheelchair units
- Revised for spout location & water flow
- Clear floor space to be “centered”
- Height for standard units: 38 – 43 inches



Drinking Fountains & Bottle Fillers



combination of one fountain and bottle filler not “hi-low”



operable parts - reach over obstruction considerations

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Toilet & Bathing Facilities (§213)

In new construction, all toilet and bathing facilities must be accessible, except:

- portable units (5% min)
- clustered single user toilet rooms (50% min)



Clustered Toilet Rooms

Access to at least 50% of single user toilet rooms clustered at 1 location & serving same users



Temporary facilities



F201.3 Temporary and Permanent Structures. These requirements shall apply to temporary and permanent buildings and facilities.

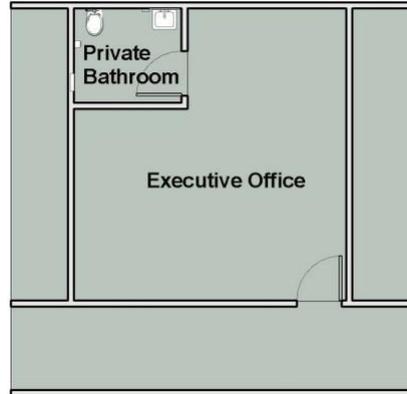
F213.2 Toilet Rooms and Bathing Rooms. 3. Where multiple single user portable toilet or bathing units are clustered at a single location, no more than 5 percent of the toilet units and bathing units at each cluster shall be required to comply with 603. Portable toilet units and bathing units complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1.

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Private Toilet Rooms

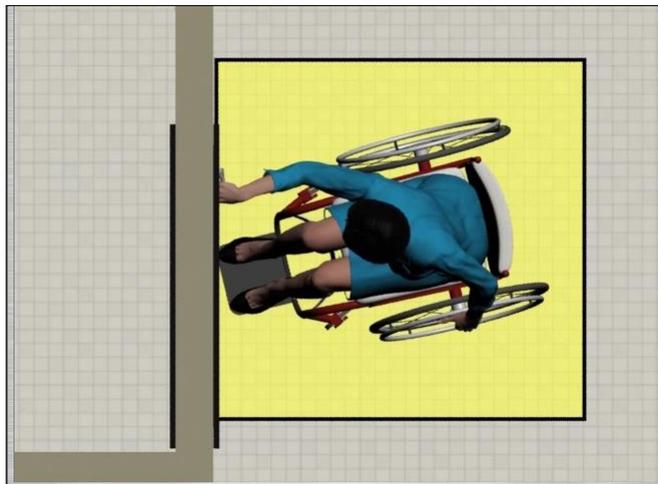
“Adaptability” permitted:

- private (not common) use
- single occupant
- accessed only through private office



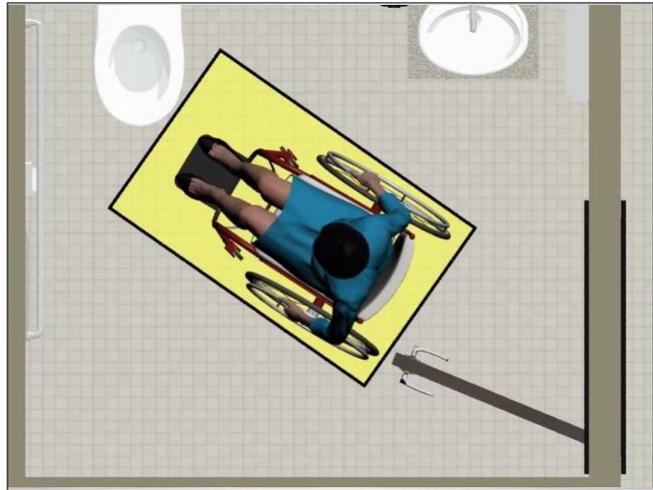
Toilet Rooms (§603)

Door maneuvering clearance (exterior)



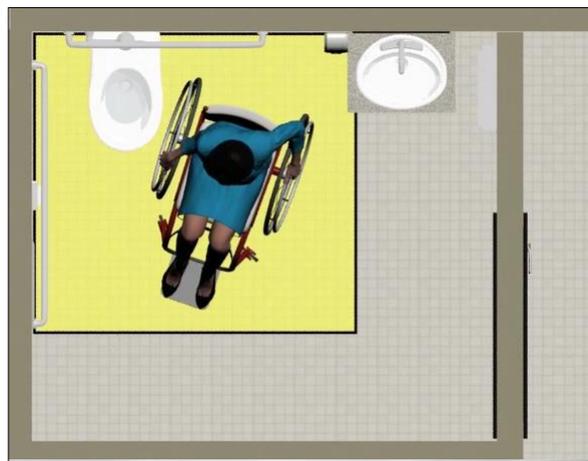
Toilet Rooms

Wheelchair space beyond door swing



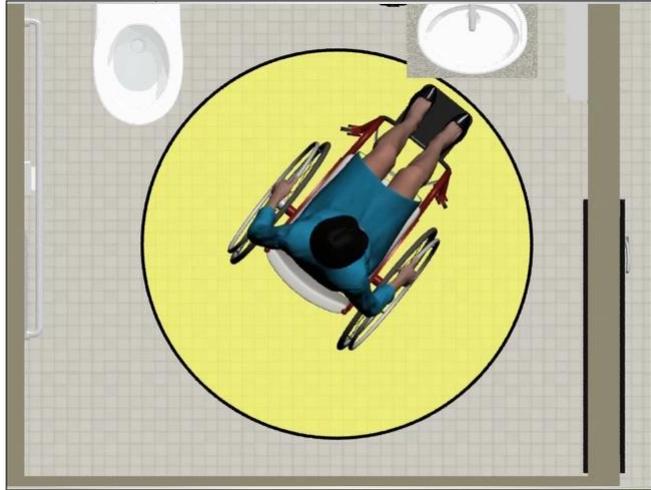
Toilet Rooms

Clear floor space at toilet for approach & transfer



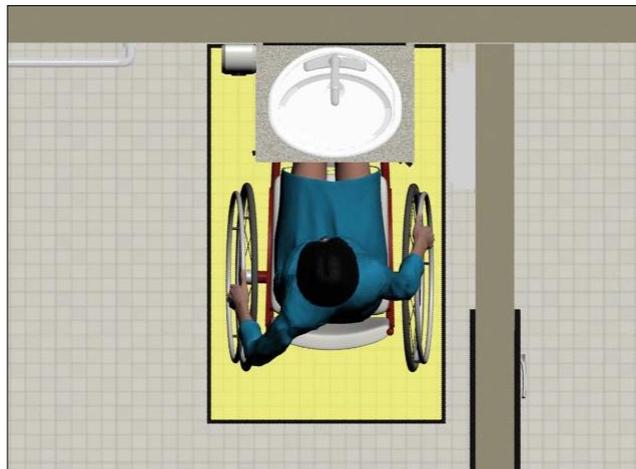
Toilet Rooms

Turning space (circular or T-shaped)



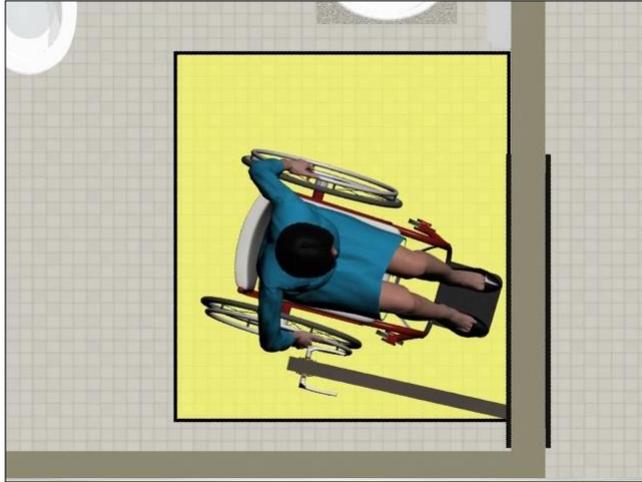
Toilet Rooms

Clear floor space at fixtures & elements

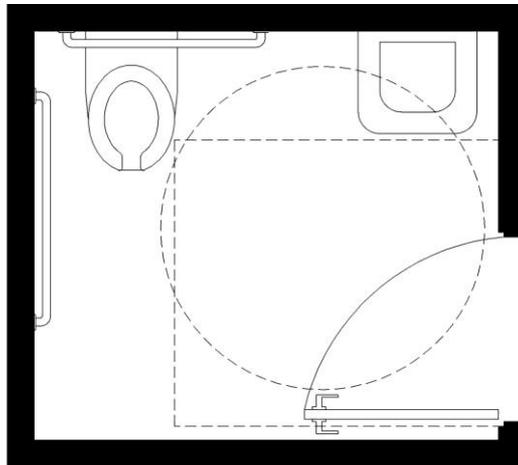


Toilet Rooms

Interior door maneuvering clearance

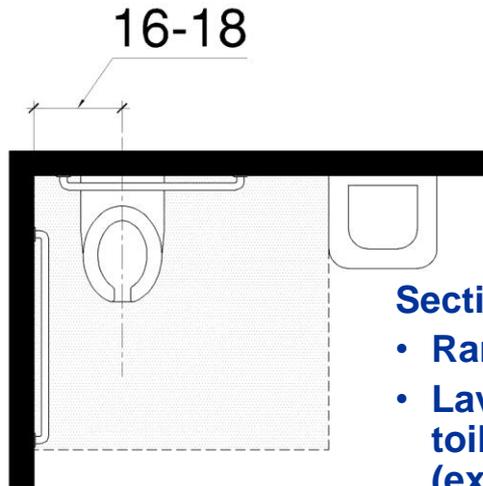


Toilet & Bathing Rooms (603)



**603.2.3 -
Turning
space
(which
door can
swing into)
and door
clearances
further
define
room size**

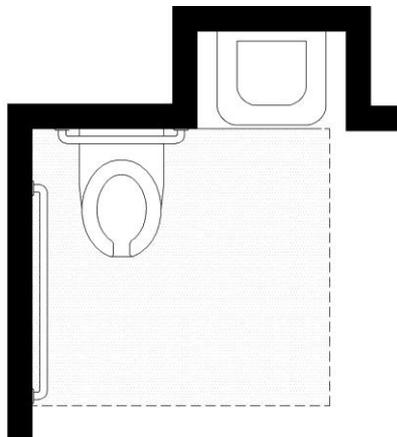
Water Closets and Toilet (Stalls) Compartments (604)



Sections 604.2 and 604.3.2

- Range for toilet centerline
- Lavatory cannot overlap toilet clearance (except in dwelling units)

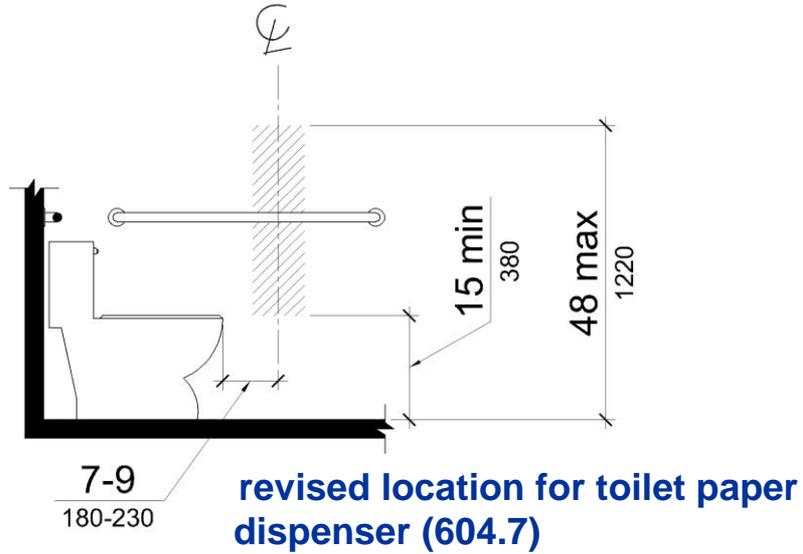
Water Closets and Toilet Compartments (604)



Section 604.5.2

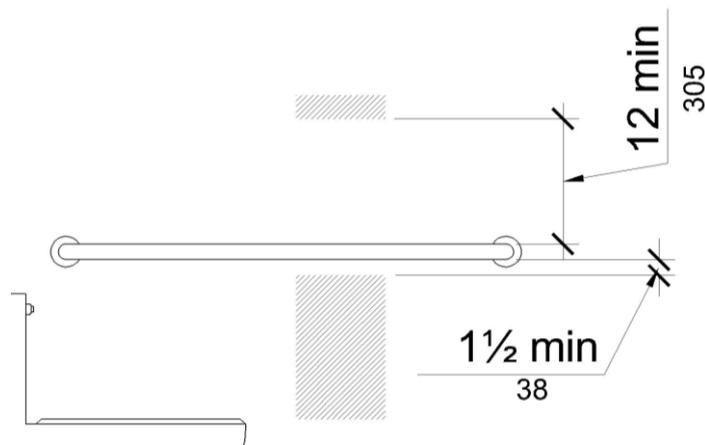
- A fixture can be recessed
- Shorter (24" min.) rear grab bar allowed

Water Closets (604)



Water Closets (604)

grab bars clearances (609.3) further determine location of non-recessed dispensers

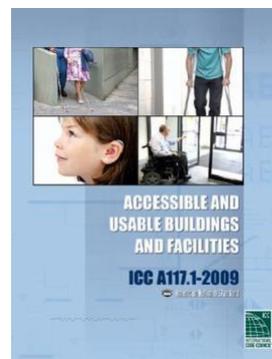
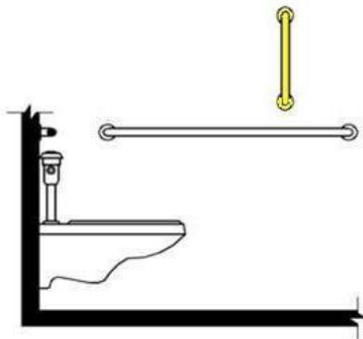


Water Closets (604)



large dispensers
can conflict with
grab bar
clearance

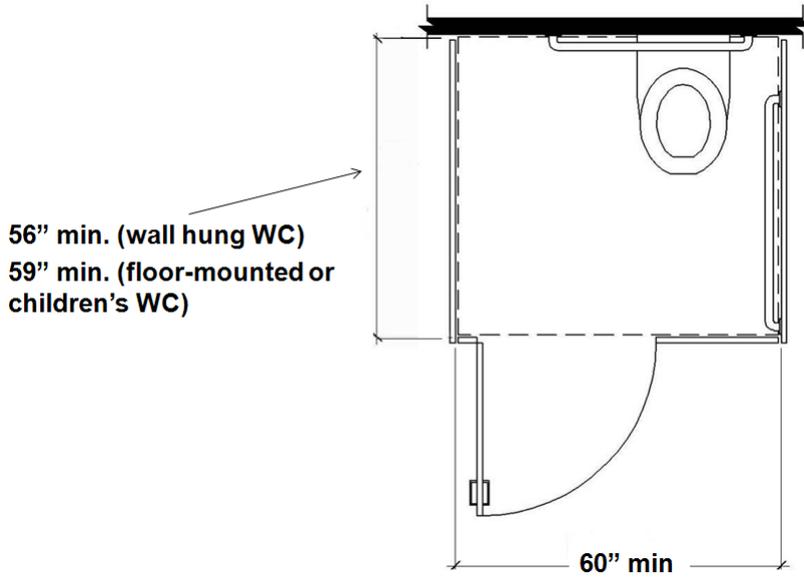
ICC/ANSI Standards - IBC



- ANSI A117.1 requires 18" min. vertical grab bar
– 609.3 exception permits location

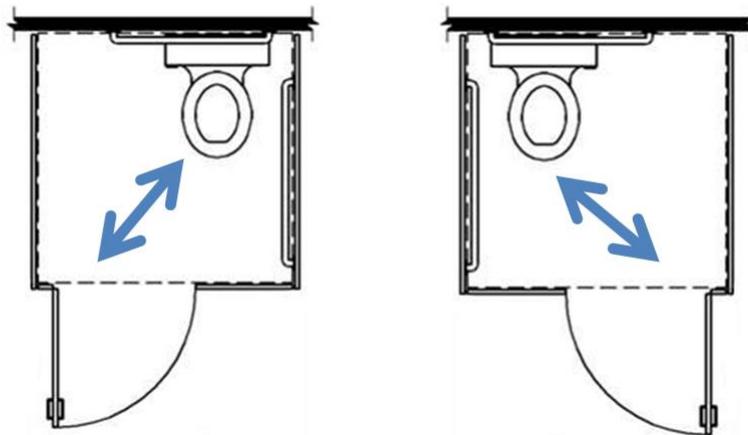
30

Toilet Stalls (§604.8)

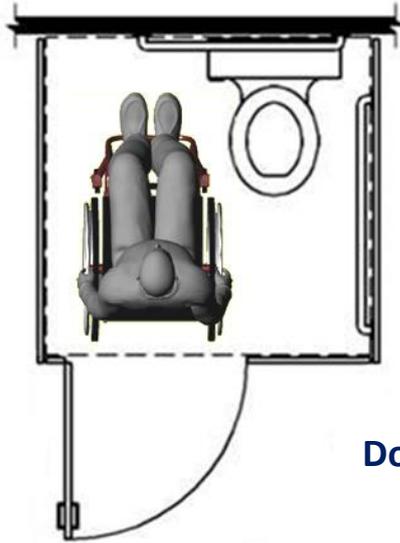


Toilet Stalls

Door and WC: offset configuration

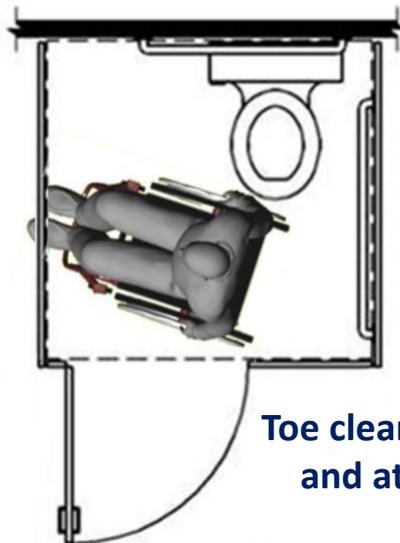


Toilet Stalls



Door must swing out.

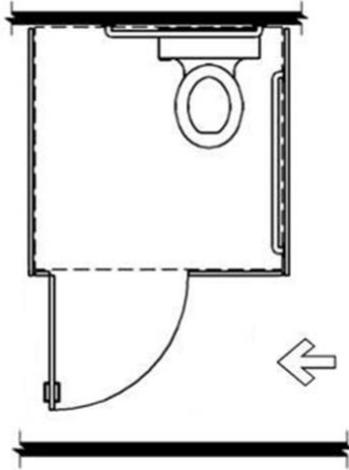
Toilet Stalls



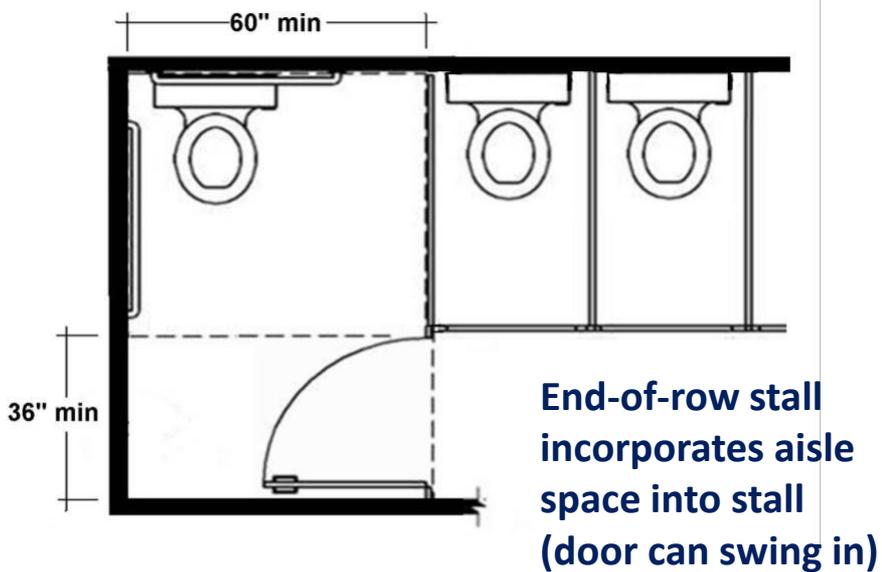
**Toe clearance (9" min) below front
and at least one side partition**

Toilet Stalls

Tip: Configure stalls for a latch (instead of hinge) approach for better access



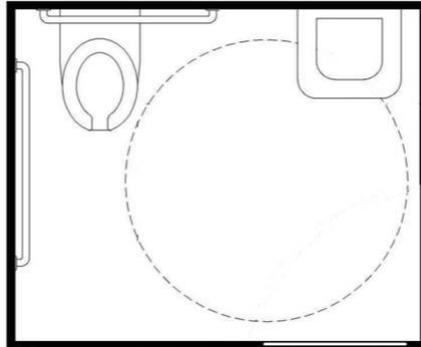
Toilet Stalls: End of Row



Toilet Stalls

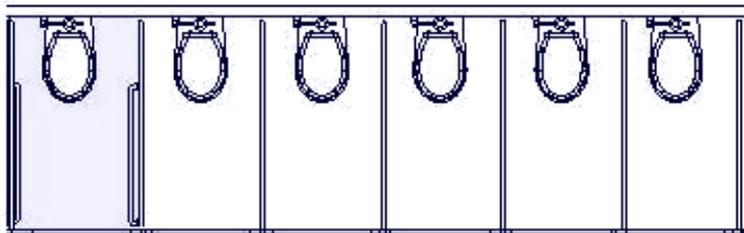
Stalls with more than 1 plumbing fixture (toilet & lav) treated as toilet room

Second accessible lav required outside stall



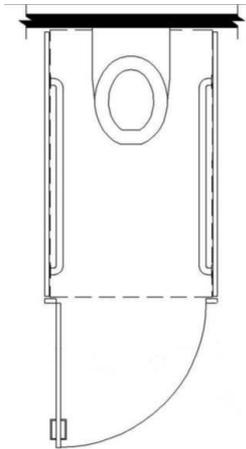
Ambulatory Stall

Required where 6 or more stalls provided



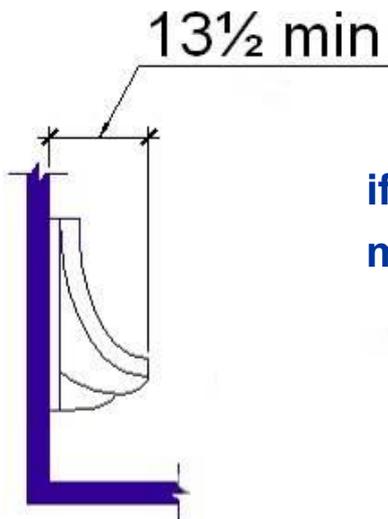
Ambulatory Stall

Required where 6 or more stalls provided



- parallel grab bars
- width: 35" – 37"
- depth: 60" min.
- doors: out-swinging, self-closing

Urinals (605)



if 2 are provided...
minimum depth
specified



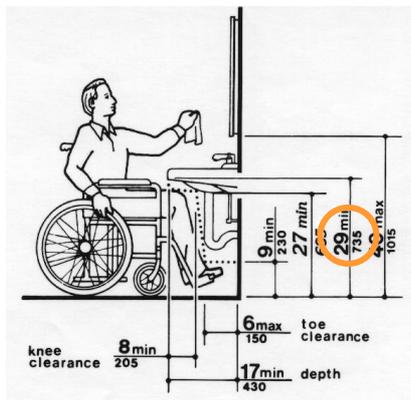
Mirrors



Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches maximum above the finish floor.

Mirrors not located above lavatories the bottom edge of the reflecting surface 35 inches max. above the finish floor or ground

Lavatories & Sinks (606)



- Apron clearance (29" min.) removed



Lavatories & Sinks (606)



Hand-operated metering faucets shall remain open for 10 seconds minimum



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Lavatories

Locate controls & dispensers above, not beyond, usable CFS to be within reach



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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

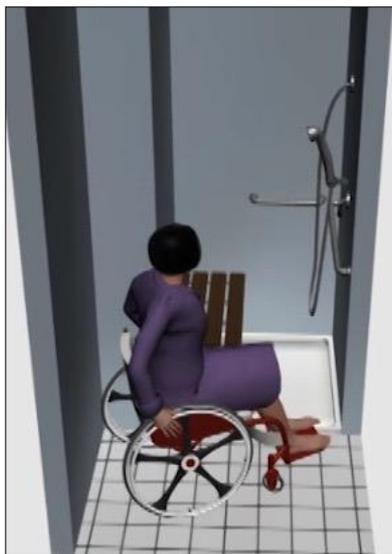
Bathing Facilities (§603)

At least one shower or tub required

Options:

- transfer shower stall
- roll-in shower
- tubs

Transfer Stall

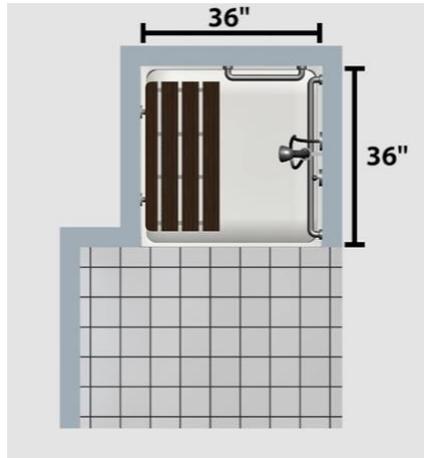


- Seat required
- ½" curb allowed
- Absolute stall dimensions
- Grab bars can be continuous or split

Transfer Stall

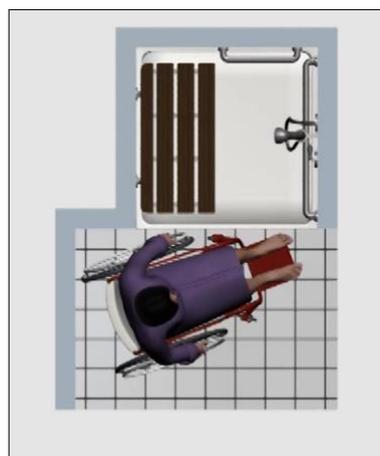
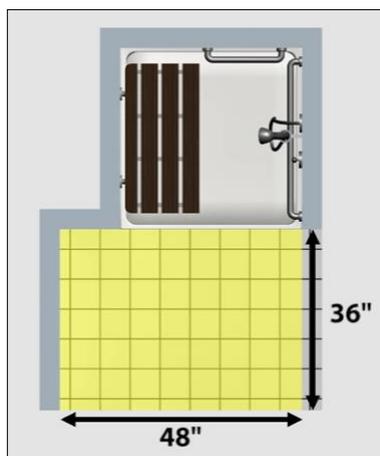
Stall dimensions: absolute, not minimum

36" measured at center point of wall



Transfer Stall

Clear floor space positioned for alignment with seat



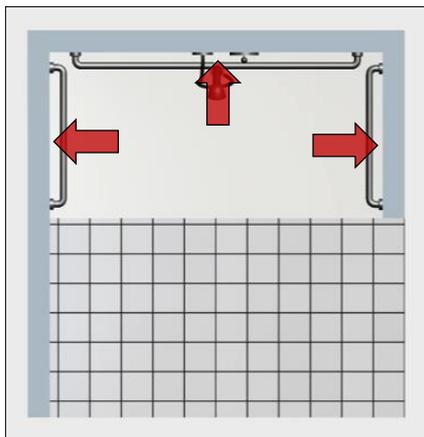
Roll-in Shower



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

Roll-in Shower (no seat)

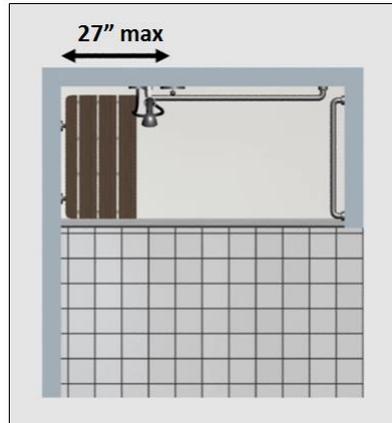
Shower head and controls permitted
on any wall if no seat provided



Roll-in Shower (with seat)

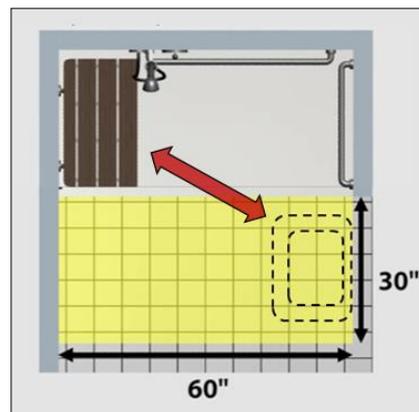
Shower head & controls required on back wall within reach from seat

Grab bar ends at seat;
seat must be folding



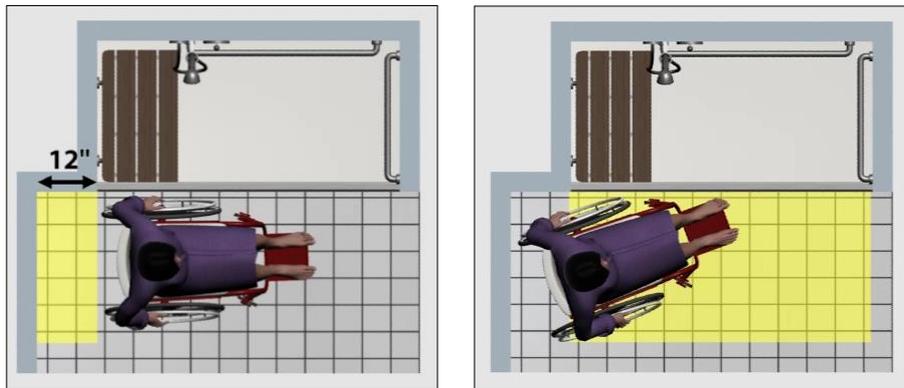
Roll-in Shower (with seat)

Lavatory can overlap clear floor space,
but must be opposite seat wall

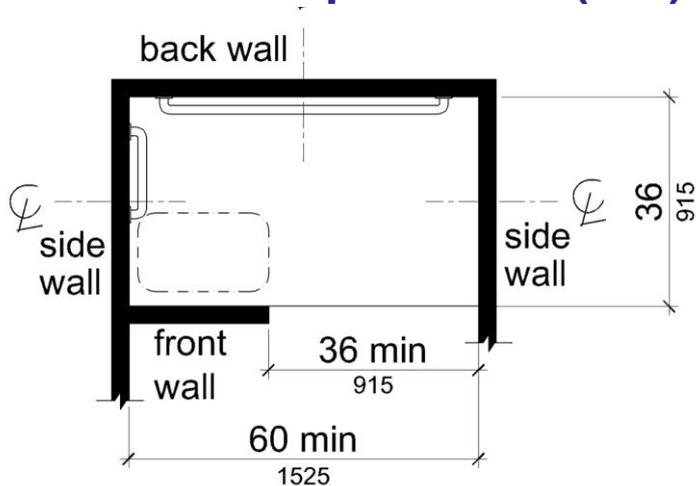


Roll-in Shower (with seat)

Recommended: additional space (12" min.) beyond seat wall will allow better alignment with seat



Shower Compartments (608)

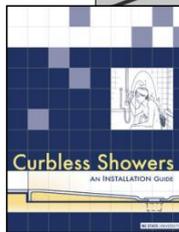
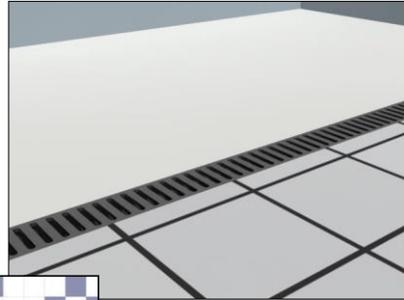


- alternate design permitted in any facility

Roll-in Showers

Other ways to control water:

- 2% max. slope allowed
- consider trench drain
- Resource from the Center for Universal Design
www.design.ncsu.edu



Bath Tubs

Permanent seat

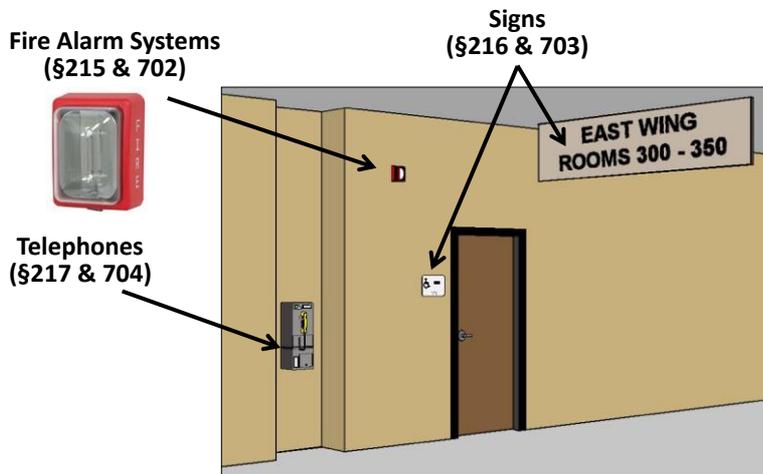




Communication Elements & Features (Chapter 7)

- Fire Alarm Systems
- Signs
- Telephones
- Detectable Warnings
- Assistive Listening Systems
- ATMs & Fare Machines
- Two-Way Communication Systems

Communication Elements



- Assistive Listening Systems (§219 & §706)
- ATMs & Fare Machines (§220 & §707)
- Two-way Communication Systems (§230 & §708)

Which signs must be raised and brailled?

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



Tactile Signs

Scoping (interior & exterior):

- Restroom labels (at entry)
- Room numbers/ names (not likely to change)
- Floor levels
- Exit access/discharge
- Areas of Rescue Assistance

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Signs (216)

Required Signs

- Means of egress
- Parking
- Entrances
- Elevators
- Toilet and bathing rooms
- TTYs
- Assistive listening systems
- Check-out aisles

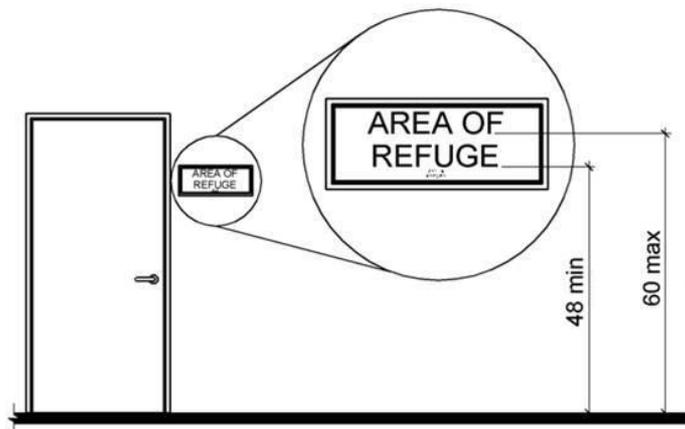


- Other Info Pictograms
- Directional Signs

Tactile Signs: Location

New standards:

48" – 60" high measured to character baseline
(instead of 60" centerline)



Visual Characters (703.5)

- “Conventional form”
 - Character proportion, height, & spacing
 - Location (40” min. height)
 - Stroke thickness
 - Line spacing
 - Finish & contrast
- (visual signs with raised characters & Braille subject only to finish & contrast specs of 703)

Fire Alarm Systems (215)

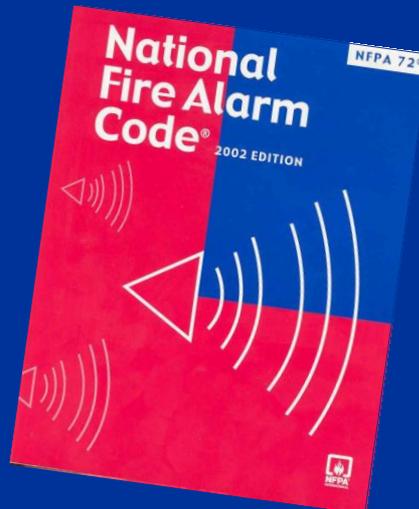
- **If Provided** – Must be audible and visible
- Employee work areas (wiring)
- Alterations: required where system is upgraded or replaced or a new one is installed



Fire Alarm Systems (702)

NFPA 72
(1999 or 2002)

ABAAS requires
110 dB max.





Assistive Listening Systems (219)

Required where:

- Audible communication = integral to use of the space, AND
- Audio amplification provided



Not triggered by fixed seating or occupant load

Chapter 8 - Special Rooms & Spaces

-  Assembly Areas
-  Dressing, Fitting, & Locker Rooms
-  Kitchens & Kitchenettes
-  Medical & Long-term care
-  Transient Lodging
-  Prison Cells
-  Courtrooms
-  Dwelling Units
-  Transportation Facilities
-  Storage





Assembly Areas (221)

Wheelchair Spaces

lower scoping for assembly areas with more than 500 seats:



- 501 – 5,000 seats: 1 space/ every 150 seats (instead of 1%)
- > 5,000: 0.5% scoping



Assembly Areas (221)

Dispersion of wheelchair spaces –

to provide choices of seating locations & viewing angles “substantially equal to, or better than,” the choices of all other spectators



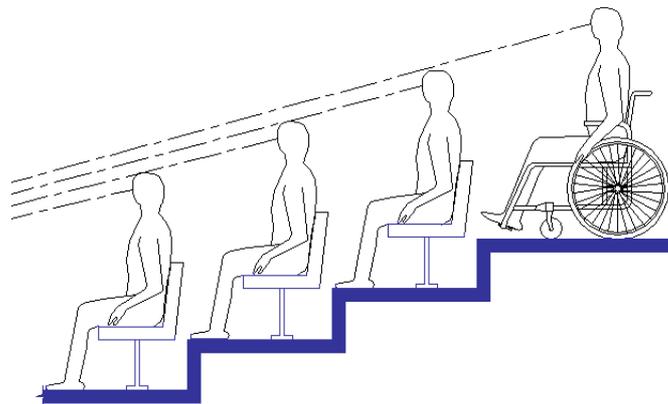
Assembly Areas (221)

Other Changes:

- Companion seat for each space (can be movable)
- Designated aisle seats - 5% of aisle seats
- Lawn seating - accessible route



Wheelchair Spaces (802)



lines of sight over seated/ standing spectators



Kitchens, Kitchenettes, & Sinks (212)



- New provision – applies where provided
- Covers sinks (5% or at least 1)
- Mop & service sinks exempted



Built-In Elements (Chapter 9)

- Dining & Work Surfaces
- Benches
- Check-Out Aisles & Service Counters





Dining & Work Surfaces (226)

Access to at least 5%, not fewer than 1



Sales & Service (227 and 904.4)

F227 Scoping

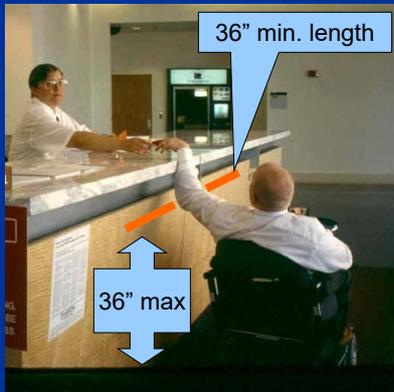
- Counters – 1 of each type
- Cash register not factor

904.4 Technical

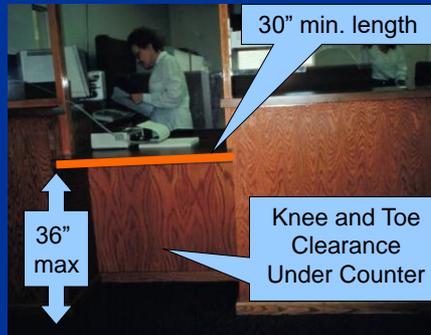
- Accessible part same depth
- Parallel or forward approach
- No alternatives
- Exception for alterations
- Security glazing – voice communication



Sales & Service Counters (904)

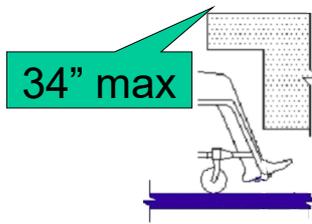
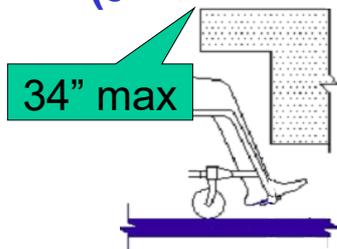


Parallel Approach

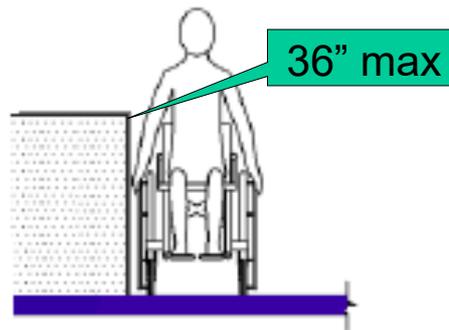
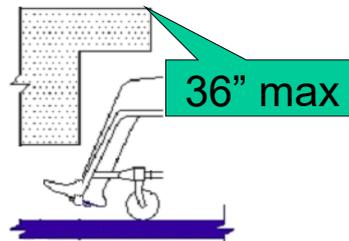


Forward Approach

Work Surface (902)



Service Counter (904)





Recreation Facility Guidelines

- Amusement rides
- Boating facilities
- Fishing piers and platforms
- Sports facilities
- Play areas
- Golf courses
- Miniature golf courses
- Swimming pools, wading pools, and spas



"For the very first time, these rules will cover recreational facilities like amusement parks and marinas and gyms and golf facilities and swimming pools, and municipal facilities like courtrooms and prisons," Obama stated.

Recreational Boating Facilities

§235 & §1003

Recreational Boating Facilities *Section 235*

- Number of boat slips required to be accessible (based on the number of slips provided)
- Dispersion of accessible boat slips throughout the various types provided
- Number of boarding piers at boat launch ramps required to be accessible.

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Technical Provisions *Section 1003*

- Fixed and floating facilities
- Accessible routes
- Gangways
- Accessible boat slips
- Boarding piers at boat launch ramps



84

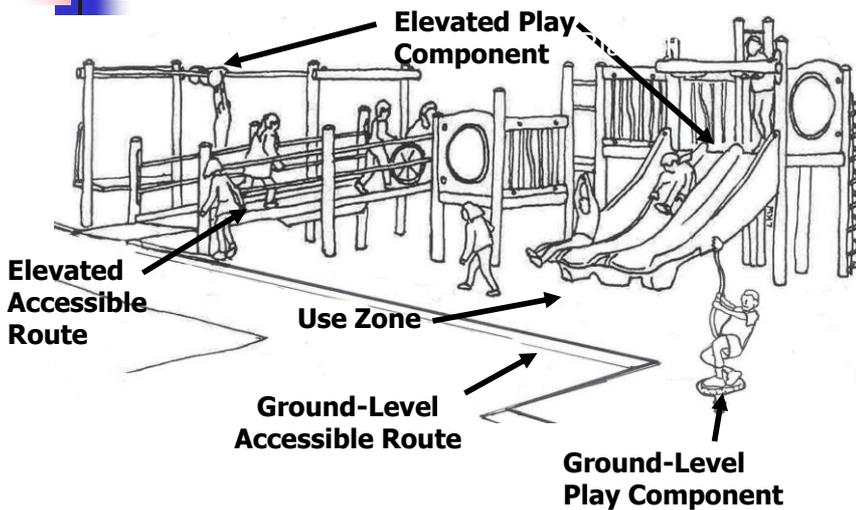
Play Areas

§240 & §1008



85

Play Area Terms



86

Determining Ground or Elevated



Surface inspection and maintenance

Accessible ground surfaces must be inspected and maintained regularly & frequently to ensure continued compliance with ASTM 1951-99.



88

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

2014

1 Start with a comprehensive planning and site selection.

2 Follow the Accessibility Standards for Play Areas.

3 Review the 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.

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

The U.S. Census Bureau's American Community Survey (2014) estimates there to be 2.8 million school-aged children with disabilities in the United States. The Census Bureau (2008) 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 when navigating 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.

Sports facilities

(area of sport activity, exercise equipment, player team seating, bowling facilities, shooting facilities, saunas and steam rooms)



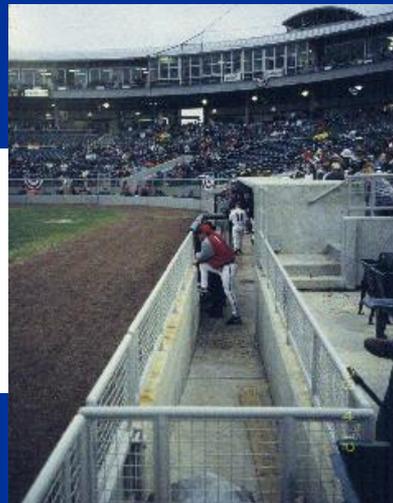
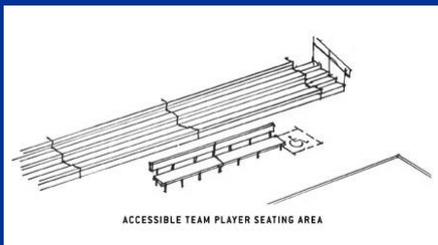
Sports facilities

- Area of sport activity = That portion of a room or space where the play or practice of sport occurs
- Accessible route to each area of sport activity
- Exempt from firm, stable, and slip resistant surface provision



Team player seating areas

- Platform lift permitted



Swimming pools and Spas

§242 & §1009

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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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PERMITTED MEANS OF POOL ACCESS					
POOL TYPE	SLOPED ENTRY	LIFT	TRANSFER WALLS	TRANSFER SYSTEMS	STAIRS
Swimming (less than 300 linear feet of pool wall)	✓	✓			
Swimming (300 or more linear feet of pool wall) —two means of entry required	✓*	✓*	✓	✓	✓
Wave action, leisure river, and other pools where user entry is limited to one area	✓	✓		✓	
Wading pools	✓				
Spas		✓	✓	✓	

*Primary means must be by sloped entry or lift, secondary means can be any of the permitted types.

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- Publications and guides
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- Implementing regulation and additional requirements
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