

UNIVERSITY OF CONNECTICUT
CENTER FOR STUDENTS WITH DISABILITIES
ACCESSIBILITY CHECKLIST



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CENTER FOR STUDENTS WITH DISABILITIES
University of Connecticut

ACCESSIBILITY CHECKLIST FOR RENOVATIONS AND NEW CONSTRUCTION

These standards have been adapted for UConn use and are based on the Americans with Disabilities Act and Architectural Barriers Act Accessibility Guidelines (ADA and ABA Accessibility Guidelines) (as amended through July 2004). The full set of ADA and ABA Accessibility Guidelines can be accessed at: <http://www.access-board.gov/ada-aba/index.htm>.

	<u>YES</u>	<u>NO</u>
<u>Entrances and Doors</u>		
Accessible entrances are connected by an accessible route to public transportation stops, accessible passenger loading zones, and public streets or sidewalks.	<input type="checkbox"/>	<input type="checkbox"/>
Entrances are also connected by an accessible route to all accessible spaces or elements within the building.	<input type="checkbox"/>	<input type="checkbox"/>
Revolving doors and turnstiles are not the only means of passage at an accessible entrance.	<input type="checkbox"/>	<input type="checkbox"/>
Slow-opening, low-powered, automatic doors are included on all exterior accessible entrances.	<input type="checkbox"/>	<input type="checkbox"/>
Push plates are mounted no higher than 48 inches for a front approach or 54 inches for a side approach.	<input type="checkbox"/>	<input type="checkbox"/>
Doorways have a minimum clear opening of 36 inches.	<input type="checkbox"/>	<input type="checkbox"/>
Interior corridor doors are equipped with magnetic holds.	<input type="checkbox"/>	<input type="checkbox"/>
The minimum space between two doors in a series is 48 inches plus the width of any door swing into the space.	<input type="checkbox"/>	<input type="checkbox"/>
Doors in public use areas require no more than 5 lbf. to open.	<input type="checkbox"/>	<input type="checkbox"/>
Door hardware is easy to grasp with one hand and does not require tight grasping, pinching, or twisting of the wrist.	<input type="checkbox"/>	<input type="checkbox"/>
Thresholds do not exceed ¾ inch in height.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Ramps (Entrance)</u>		
Maximum slope is 1:12 inches (preference is for 1:20).	<input type="checkbox"/>	<input type="checkbox"/>
Minimum width is 36 inches.	<input type="checkbox"/>	<input type="checkbox"/>
Includes level landings at the bottom and top that are as wide as the ramp run leading to it.	<input type="checkbox"/>	<input type="checkbox"/>
Landing length is a minimum of 60 inches.	<input type="checkbox"/>	<input type="checkbox"/>

	<u>YES</u>	<u>NO</u>
Handrails are provided on both sides of ramp (if the ramp run has a rise greater than 6 inches or a horizontal projection greater than 72 inches).	<input type="checkbox"/>	<input type="checkbox"/>
Handrails extend at least 12 inches beyond the top and bottom of the ramp.	<input type="checkbox"/>	<input type="checkbox"/>
Handrails are mounted between 34-38 inches above the ramp.	<input type="checkbox"/>	<input type="checkbox"/>

Curb Ramps (on sidewalks, at crosswalks, etc.)

Maximum slope is 1:20 inches (see Figure 11).	<input type="checkbox"/>	<input type="checkbox"/>
Minimum width is 36 inches (exclusive of the flared sides).	<input type="checkbox"/>	<input type="checkbox"/>
Flared sides are provided with a maximum slope of 1:10 inches (see Figures 12a and 12b).	<input type="checkbox"/>	<input type="checkbox"/>

Drinking Fountains and Water Coolers

Spouts are no higher than 36 inches from the floor to the spout outlet.	<input type="checkbox"/>	<input type="checkbox"/>
Controls are operable with one hand and do not require tight grasping, pinching, or twisting of the wrist (force to operate is no greater than 5 lbf.).	<input type="checkbox"/>	<input type="checkbox"/>
Clear knee space is at least 27 inches high between the bottom of the apron and the floor, 30 inches wide, and 17-19 inches deep in a wall-mounted unit (see Figure 27a).	<input type="checkbox"/>	<input type="checkbox"/>
A clear floor space of 30 inches by 48 inches is provided to allow a person in a wheelchair to approach the unit facing forward (see Figure 27b).	<input type="checkbox"/>	<input type="checkbox"/>
A clear floor space at least 30 inches by 48 inches is provided for built-in units not having a clear space under them (see Figures 27c and 27d).	<input type="checkbox"/>	<input type="checkbox"/>

Bathrooms:

Water Closets/Toilets

Clear floor space for a front transfer to the water closet is a minimum of 48 inches in width by a minimum of 66 inches in length (see Figure 28).	<input type="checkbox"/>	<input type="checkbox"/>
Clear floor space for a diagonal transfer is a minimum of 48 inches in width by a minimum of 56 inches in length (see Figure 28).	<input type="checkbox"/>	<input type="checkbox"/>
Clear floor space for a side transfer is a minimum of 60 inches in width by a minimum of 56 inches in length (see Figure 28).	<input type="checkbox"/>	<input type="checkbox"/>
A 36 inch minimum length grab is behind the water closet mounted at a height between 33-36 inches (for water closets not in stalls) (see Figure 29a).	<input type="checkbox"/>	<input type="checkbox"/>

	<u>YES</u>	<u>NO</u>
Height of the water closet is at least 19 inches measured to the top of the toilet seat. (see Figure 29b).	<input type="checkbox"/>	<input type="checkbox"/>
Toilet paper dispensers are within reach at a minimum of 19 inches from the ground and permit a continuous paper flow.	<input type="checkbox"/>	<input type="checkbox"/>
Doors swing away from the clear floor space required for any fixture.	<input type="checkbox"/>	<input type="checkbox"/>

Toilet Stalls

Stall is a minimum of 60 inches wide and 56 inches deep (centerline of the water closet is 18 inches from the side wall).	<input type="checkbox"/>	<input type="checkbox"/>
A 60-inch diameter unobstructed turning space is provided for wheelchair users and is on an accessible route.	<input type="checkbox"/>	<input type="checkbox"/>
A 9-inch toe clearance is provided above the floor (if the depth of the stall is greater than 60 inches then the toe clearance is not required).	<input type="checkbox"/>	<input type="checkbox"/>
Accessible stall is provided at the end of a row of stalls.	<input type="checkbox"/>	<input type="checkbox"/>
If door is located in front of the stall, the door swings out.	<input type="checkbox"/>	<input type="checkbox"/>
If door is located on the side of the stall, the door swings into the stall if the length of the stall is extended at least a minimum of 36 inches beyond the required minimum length (see Figure 30a1).	<input type="checkbox"/>	<input type="checkbox"/>
Grab bars are between 33-36 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>
Flush controls are hand operated or automatic and do not require tight grasping, pinching or twisting of the wrist (force to operate is no greater than 5 lbf.).	<input type="checkbox"/>	<input type="checkbox"/>

Urinals

Stall-type or wall-hung with an elongated rim no higher than 17 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>
A clear floor space of 30 inches by 48 inches is provided in front to allow a forward approach.	<input type="checkbox"/>	<input type="checkbox"/>
Flush controls are hand operated or automatic and do not require tight grasping, pinching or twisting of the wrist (force to operate is no greater than 5 lbf.).	<input type="checkbox"/>	<input type="checkbox"/>

	<u>YES</u>	<u>NO</u>
<u>Lavatories and Mirrors</u>		
Counter surface is no higher than 34 inches above the floor (see Figure 31).	<input type="checkbox"/>	<input type="checkbox"/>
Minimum depth is at least 17 inches.	<input type="checkbox"/>	<input type="checkbox"/>
Knee clearance of at least 29 inches above the floor is provided.	<input type="checkbox"/>	<input type="checkbox"/>
A clear floor space of 30 inches by 48 inches is provided in front to allow a forward approach.	<input type="checkbox"/>	<input type="checkbox"/>
Hot water and drainpipes under lavatories are insulated or configured to protect against contact.	<input type="checkbox"/>	<input type="checkbox"/>
Faucets are lever-operated, push-type or electronically controlled (they are hand operated or automatic and do not require tight grasping, pinching or twisting of the wrist (force to operate is no greater than 5 lbf.)).	<input type="checkbox"/>	<input type="checkbox"/>
Mirrors are mounted with the bottom edge of the reflecting surface no higher than 40 inches.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Bathtubs</u>		
In a parallel approach a clear floor space of 30 inches minimum width by 60 inches minimum length is provided (see Figure 33).	<input type="checkbox"/>	<input type="checkbox"/>
In a perpendicular approach, a clear floor space of 48 inches minimum width by 60 inches minimum length is provided.	<input type="checkbox"/>	<input type="checkbox"/>
An in-tub seat or a seat at the head of the tub is provided.	<input type="checkbox"/>	<input type="checkbox"/>
Grab bars are on the head and foot walls and are 33-36 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>
Two grab bars are provided on the back wall (the first 9 inches above the rim of the tub, and the second between 33-36 inches above the bathroom floor) (see Figure 34).	<input type="checkbox"/>	<input type="checkbox"/>
Controls are located between 33-36 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>
Controls are hand operated or automatic and do not require tight grasping, pinching or twisting of the wrist (force to operate is no greater than 5 lbf.).	<input type="checkbox"/>	<input type="checkbox"/>
A shower spray unit with a hose at least 60 inches long that can be used both as a fixed shower head and as a hand-held shower is provided.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Shower Stalls</u>		
Size of stall is at least 30 inches by 60 inches (see Figure 35b).	<input type="checkbox"/>	<input type="checkbox"/>
A fixed folding type seat is provided and mounted on the wall adjacent to the controls between 17-19 inches from the bathroom floor.	<input type="checkbox"/>	<input type="checkbox"/>

	<u>YES</u>	<u>NO</u>
Grab bar is mounted 33-36 inches above the shower floor.	<input type="checkbox"/>	<input type="checkbox"/>
Controls are placed between 38 inches 48 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>
Controls are located on the long wall 27 inches from the side wall.	<input type="checkbox"/>	<input type="checkbox"/>
Shower head and controls are located on either side wall.	<input type="checkbox"/>	<input type="checkbox"/>
Shower spray unit with a hose at least 60 inches long that can be used both as a fixed shower head and as a handheld shower is provided.	<input type="checkbox"/>	<input type="checkbox"/>

Sinks

Mounted with the counter or rim no higher than 34 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>
Knee clearance is provided under the sink at least 27 inches high, 30 inches wide, and 19 inches deep.	<input type="checkbox"/>	<input type="checkbox"/>
Sink has a maximum 6 ½ inches depth.	<input type="checkbox"/>	<input type="checkbox"/>
A clear floor space of 30 inches by 48 inches is provided in front to allow a forward approach.	<input type="checkbox"/>	<input type="checkbox"/>
Hot water and drainpipes under sinks are insulated or configured to protect against contact.	<input type="checkbox"/>	<input type="checkbox"/>
Faucets are lever-operated, push-type or electronically controlled (they are hand operated or automatic and do not require tight grasping, pinching or twisting of the wrist (force to operate is no greater than 5 lbf.)).	<input type="checkbox"/>	<input type="checkbox"/>

Dispensers and Wall-Mounted Fixtures (soap, paper towels, light switches, coat hooks etc.)

Clear floor space allows a forward or parallel approach by a person using a wheelchair.	<input type="checkbox"/>	<input type="checkbox"/>
If the clear floor space only allows a forward approach to an object, the maximum high forward reach is 48 inches to the top of the object.	<input type="checkbox"/>	<input type="checkbox"/>
If the clear floor space allows a parallel approach to an object, the maximum high side reach is 54 inches to the top of the object.	<input type="checkbox"/>	<input type="checkbox"/>
Controls and operating mechanisms are operable with one hand and do not require tight grasping, pinching or twisting of the wrist (force required to activate controls is no greater than 5 lbf.).	<input type="checkbox"/>	<input type="checkbox"/>
Medicine cabinets with a usable shelf are no higher than 44 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>

	<u>YES</u>	<u>NO</u>
<u>Areas of Rescue Assistance</u>		
Although not a code requirement, in sprinklered buildings UConn standards include areas of rescue assistance.	<input type="checkbox"/>	<input type="checkbox"/>
A method of two-way communication with both visual and audible signals is provided.	<input type="checkbox"/>	<input type="checkbox"/>
Each area of rescue assistance is identified by a sign which states "AREA OF RESCUE ASSISTANCE" and displays the international symbol of accessibility (see Figure 43b).	<input type="checkbox"/>	<input type="checkbox"/>
Signage is installed at all inaccessible exits and where otherwise necessary to clearly indicate the direction to areas of rescue assistance.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Elevators</u>		
Elevator is on an accessible route.	<input type="checkbox"/>	<input type="checkbox"/>
Call buttons in elevator lobbies and halls are centered at 42 inches above the floor (see Figure 20).	<input type="checkbox"/>	<input type="checkbox"/>
Minimum clear width to enter the car is 36 inches.	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions of the elevator car are 80 inches wide by 51 inches deep.	<input type="checkbox"/>	<input type="checkbox"/>
All control buttons are designated by Braille and raised letters or numbers.	<input type="checkbox"/>	<input type="checkbox"/>
Floor buttons are no higher than 54 inches above the floor for a side approach (see Figure 23b).	<input type="checkbox"/>	<input type="checkbox"/>
Floor buttons are no higher than 48 inches above the floor for a front approach (see Figure 23b).	<input type="checkbox"/>	<input type="checkbox"/>
An emergency phone with 911 button is included, is at the bottom of the control panel, and is at least 35 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>
<u>Stairs</u>		
All steps have uniform riser heights and tread widths.	<input type="checkbox"/>	<input type="checkbox"/>
All treads are at least 11 inches wide.	<input type="checkbox"/>	<input type="checkbox"/>
Abrasive, contrasting color nosings are provided.	<input type="checkbox"/>	<input type="checkbox"/>
Stairways have continuous handrails at both sides of all stairs.	<input type="checkbox"/>	<input type="checkbox"/>
Stairs are a color other than white.	<input type="checkbox"/>	<input type="checkbox"/>

YES **NO**

Ground and Floor Surfaces

Changes in level up to ¼ inch may be vertical and without edge treatment. Changes in level between ¼ inch and ½ inch are beveled with a slope no greater than 1:2. Changes in level greater than ½ inch are accomplished by means of a ramp that complies with the ramp section on pages 2-3.

If carpet or carpet tile is used on a ground or floor surface, then it is securely attached; has a firm cushion, pad, or backing, or no cushion or pad; and has a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The maximum pile thickness is ½ inch. Exposed edges of carpet are fastened to floor surfaces and have trim along the entire length of the exposed edge.

If gratings are located in walking surfaces, they have spaces no greater than ½ inch wide in one direction. If gratings have elongated openings, then they are placed so that the long dimension is perpendicular to the dominant direction of travel.

Protruding Objects

Objects projecting from walls (for example, telephones) with their leading edges between 27 inches and 80 inches above the finished floor protrude no more than 4 inches into walks, halls, corridors, passageways, or aisles (see Figure 8a).

Objects mounted with their leading edges at or below 27 inches above the finished floor may protrude any amount (see Figures 8a and 8b).

Protruding objects do not reduce the clear width of an accessible route or maneuvering space.

Public Telephones

Telephones are hearing aid compatible.

A clear floor space of at least 30 inches by 48 inches is provided that allows a wheelchair user a forward or parallel approach.

Maximum mounting height is 48 inches for a forward approach, 54 inches for a parallel approach (to the top of the phone).

Telephone books, if provided, are located in a position that complies with the reach ranges specified above.

The cord from the telephone to the handset is at least 29 inches long.

A Telecommunication Device for the Deaf (TDD) is included in a bank of 2 or more public phones and is identified by the international TDD symbol (see Figure 43c).*

TDD is permanently affixed within, or adjacent to, the telephone enclosure.

Pay telephones designed to accommodate a portable TDD are equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure.

YES **NO**

A campus phone is included near the accessible entrance, which provides protection from the elements and an unobstructed view to the accessible van.

*A portable TDD may be available in another area of a building (i.e., information desk) if it is not feasible to include one in the public phone area. In this case, signage is necessary to direct individuals to the location of the TDD.

Assembly Areas

Wheelchair areas are an integral part of any fixed seating plan and are provided so as to provide people with physical disabilities a choice of admission prices and lines of sight comparable to those for members of the general public.

Each wheelchair location provides minimum clear ground or floor spaces (see Figure 46).

Accessible seating adjoins an accessible route that also serves as a means of egress in case of emergency.

At least one companion fixed seat is provided next to each wheelchair seating area.

When the seating capacity exceeds 300, wheelchair spaces are provided in more than one location.

Readily removable seats are installed in wheelchair spaces when the spaces are not required to accommodate wheelchair users.

An accessible route connects wheelchair seating locations with performing areas, including stages, arena floors, dressing rooms, locker rooms, and other spaces used by performers.

In facilities where coat hooks are provided, at least one hook is at an accessible height for persons who use wheelchairs (48 inches maximum for a forward approach, 54 inches maximum for a parallel approach).

If the listening system provided serves individual fixed seats, then such seats are located within a 50 ft viewing distance of the stage or playing area and have a complete view of the stage or playing area.*

*Assistive listening systems (ALS) are intended to augment standard public address and audio systems by providing signals which can be received directly by persons with special receivers or their own hearing aids and which eliminate or filter background noise. The type of assistive listening system appropriate for a particular application depends on the characteristics of the setting, the nature of the program, and the intended audience. Magnetic induction loops, infra-red and radio frequency systems are types of listening systems which are appropriate for various applications.

Signage

Where permanent identification is provided for rooms and spaces, signs are installed on the wall adjacent to the latch side of the door.

If there is no wall space on the latch side of the door, including at double leaf doors, signs are placed on the nearest adjacent wall.

	<u>YES</u>	<u>NO</u>
Mounting height is 60 inches above the finish floor to the centerline of the sign.	<input type="checkbox"/>	<input type="checkbox"/>
Mounting location for such signage is such that a person may approach within 3 inches of signage without encountering protruding objects or standing within the swing of a door.	<input type="checkbox"/>	<input type="checkbox"/>
Minimum character height is 3 inches.	<input type="checkbox"/>	<input type="checkbox"/>
Characters and background of signs are eggshell, matte, or other non-glare finish.	<input type="checkbox"/>	<input type="checkbox"/>
Characters and symbols contrast with their background -- either light characters on a dark background or dark characters on a light background.	<input type="checkbox"/>	<input type="checkbox"/>
Letters and numerals are raised 1/32 inches minimum, upper case, sans serif or simple serif type and are accompanied with Grade 2 Braille.	<input type="checkbox"/>	<input type="checkbox"/>
Raised characters are at least 5/8 inches high, but no higher than 2 inches.	<input type="checkbox"/>	<input type="checkbox"/>
Pictograms are accompanied by the equivalent verbal description placed directly below the pictogram.	<input type="checkbox"/>	<input type="checkbox"/>
Facility uses the international symbol of accessibility (see Figure 43b).	<input type="checkbox"/>	<input type="checkbox"/>

Fixed or Built-in Seating, Tables, Computer Workstations, Counters

Knee clearance is at least 27 inches high, 30 inches wide and 19 inches deep at tables and/or counters.	<input type="checkbox"/>	<input type="checkbox"/>
Height of accessible tables or counters is between 28-34 inches from the floor.	<input type="checkbox"/>	<input type="checkbox"/>
Access aisles are at least 36 inches wide.	<input type="checkbox"/>	<input type="checkbox"/>

Food Service Areas

If food or drink is served at counters exceeding 34 inches height for consumption by customers seated on stools or standing at counters, a portion of the main counter which is 60 inches in length minimum is provided and is between 28-34 inches above the floor.	<input type="checkbox"/>	<input type="checkbox"/>
Food service lines are at least 36 inches wide with a preference for 42 inches.	<input type="checkbox"/>	<input type="checkbox"/>
Tray slides are mounted no higher than 34 inches above the floor (see Figure 53).	<input type="checkbox"/>	<input type="checkbox"/>
Tableware and condiment areas are accessible with a maximum height between 48-54 inches above the floor (see Figure 54).	<input type="checkbox"/>	<input type="checkbox"/>

Laundry Facilities

YES **NO**

A clear floor space of at least 30 inches by 48 inches is provided.

Front loading machines are provided with the height of operating mechanisms between 15-34 inches maximum above the floor.

Mechanisms are easy to grasp with one hand and do not require tight grasping, pinching, or twisting of the wrist.

Parking

Accessible spaces are located on the shortest accessible route of travel from adjacent parking to an accessible entrance.

Accessible spaces are at least 96 inches wide and long enough to accommodate a van.

Accessible spaces do not share cross-hatching (access aisles).

Slope does exceed 1:50 inches in all directions.

Accessible spaces are designated as reserved by a sign showing the symbol of accessibility (see Figure 43b).

FIGURES

Figure 8a - Protruding Objects, Walking Parallel to a Wall

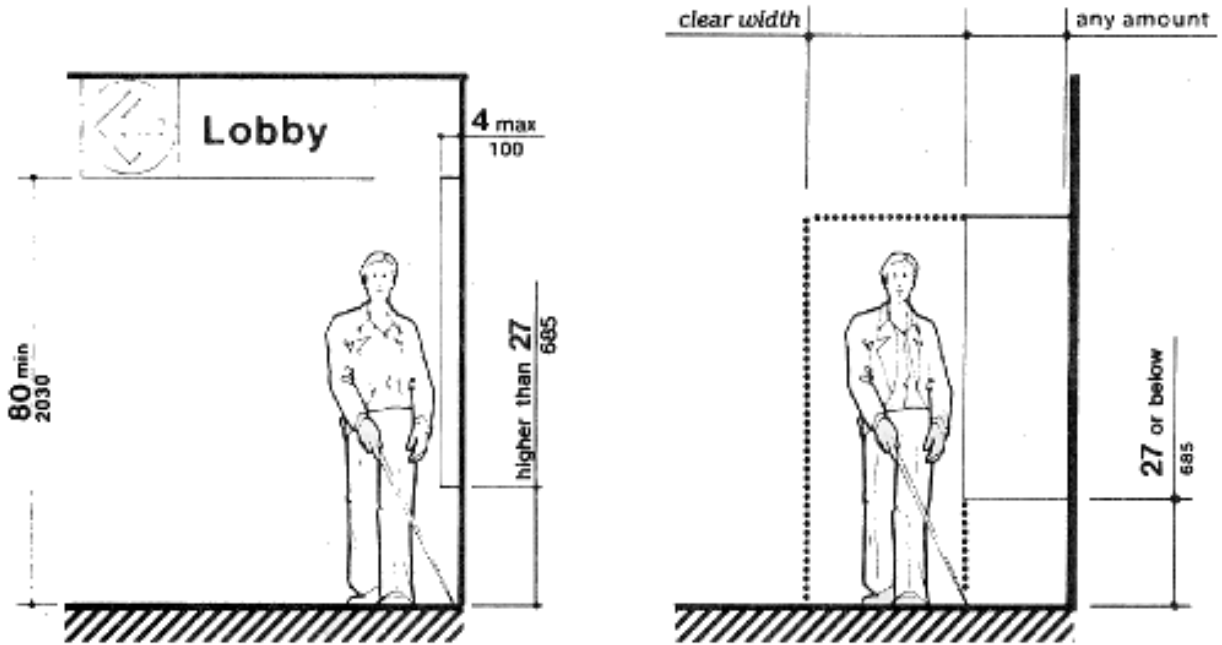


Figure 8b - Protruding Objects, Walking Perpendicular to a Wall

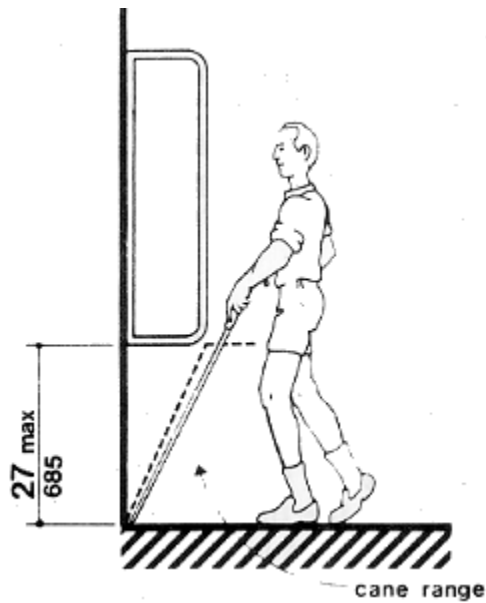


Figure 11 - Measurement of Curb Ramp Slopes

The ramp slope is a ratio equal to the vertical rise (y) divided by the horizontal run (x). It is equal to the tangent of the angle that the plane of the ramp surface makes with a horizontal (level) plane. For a curb ramp, the adjoining slope at walk or street shall not exceed 1:20.

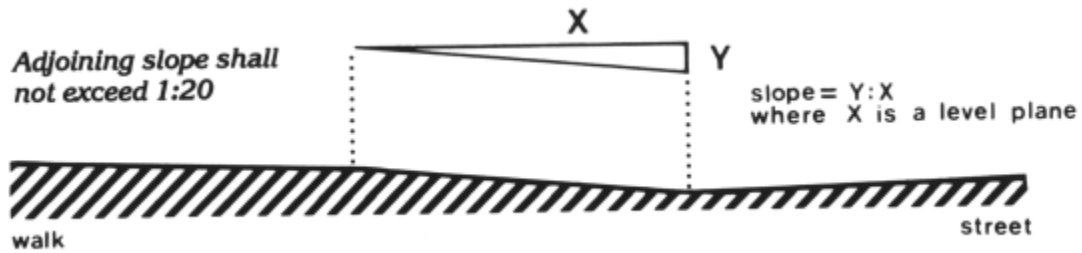


Figure 12a - Sides of Curb Ramps - Flared Sides

Note: If X is less than 48 inches, then the slope of the flared side shall not exceed 1:12.

This figure shows a typical curb ramp, cut into a walkway perpendicular to the curb face, with flared sides having a maximum slope of 1:10. The landing at the top, measured from the top of the ramp to the edge of the walkway or closest obstruction is denoted as "x". If x, the landing depth at the top of a curb ramp, is less than 48 inches, then the slope of the flared side shall not exceed 1:12.

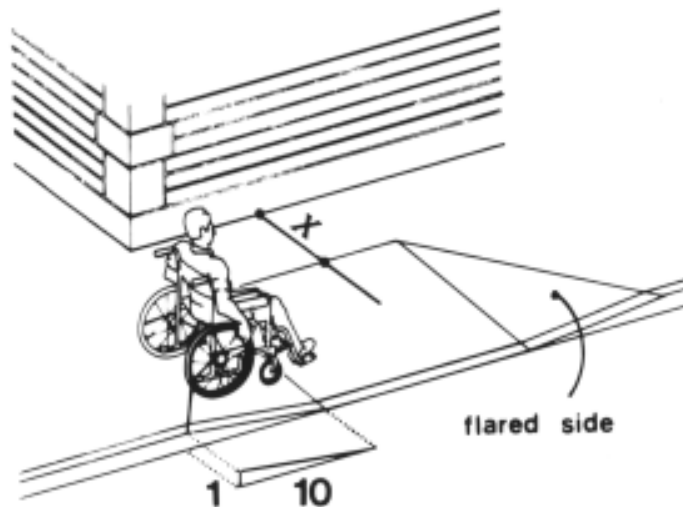


Figure 12b - Sides of Curb Ramps - Returned Curb

Where the curb ramp is completely contained within a planting strip or other non-walking surface, so that pedestrians would not normally cross the sides, the curb ramp sides can have steep sides including vertical returned curbs.

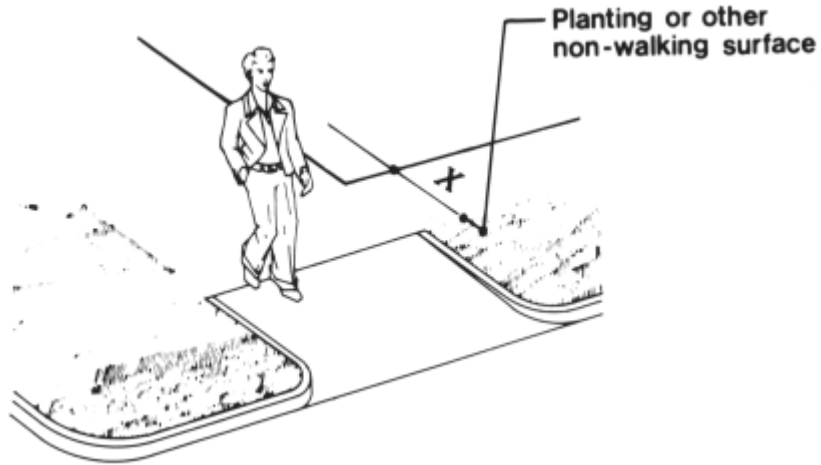


Figure 20 - Hoistway and Elevator Entrances

NOTE: The automatic door reopening device is activated if an object passes through either line A or line B. Line A and line B represent the vertical locations of the door reopening device not requiring contact.

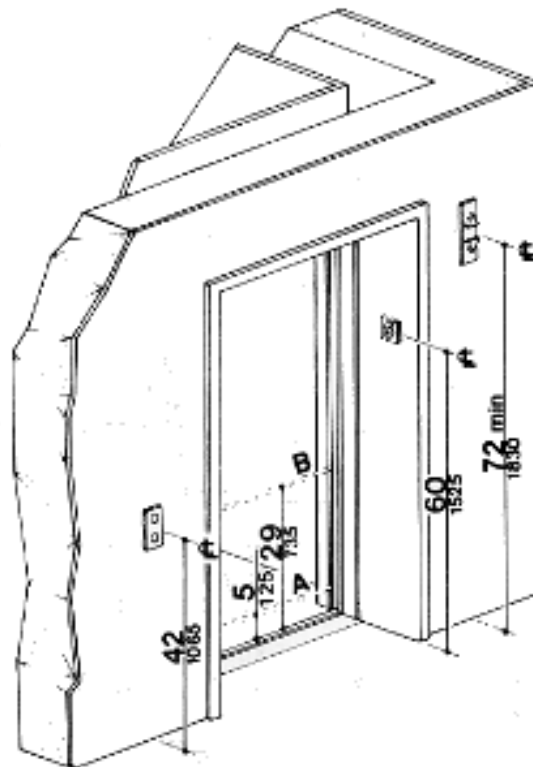


Figure 23a - Car Controls Panel Detail

The diagram illustrates the symbols used for the following control buttons: main entry floor, door closed, door open, emergency alarm, and emergency stop. The diagram further states that the octagon symbol for the emergency stop shall be raised but the X (inside the octagon) is not.

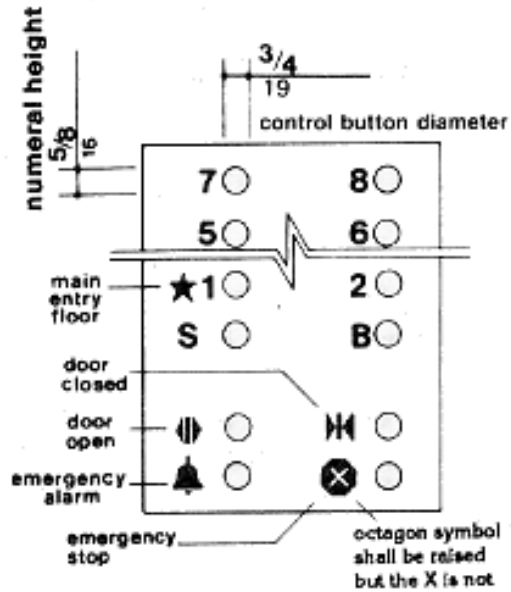


Figure 23b - Car Controls - Car Control Height

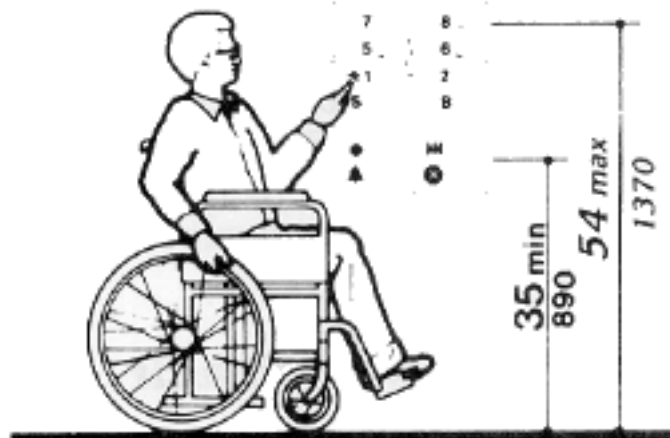


Figure 27a - Drinking Fountains and Water Coolers - Spout Height and Knee Clearance

In addition to clearances discussed in the text, the following knee clearance is required underneath the fountain: 27 inches (685 mm) minimum from the floor to the underside of the fountain which extends 8 inches (205 mm) minimum measured from the front edge underneath the fountain back towards the wall; if a minimum 9 inches (230 mm) of toe clearance is provided, a maximum of 6 inches (150 mm) of the 48 inches (1220 mm) of clear floor space required at the fixture may extend into the toe space. (4.15.2, 4.15.5)

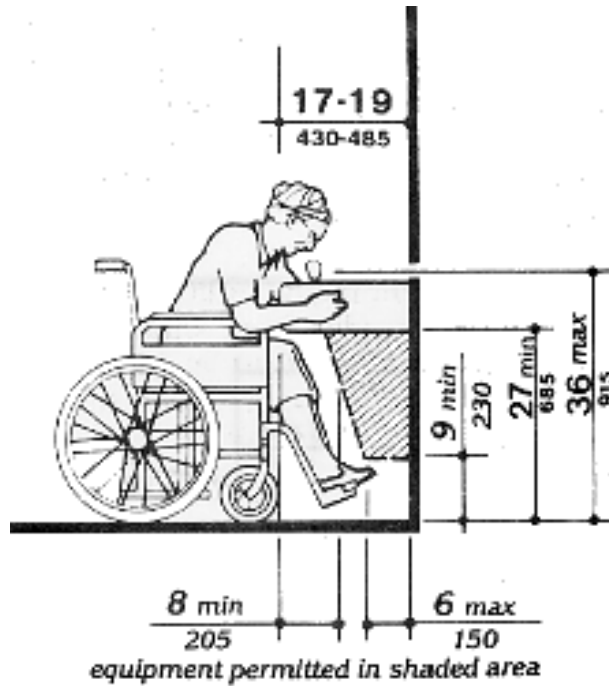


Figure 27b - Drinking Fountains and Water Coolers - Clear Floor Space

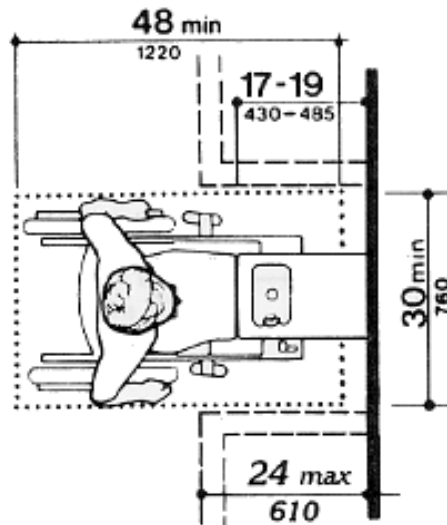


Figure 27c - Drinking Fountains and Water Coolers - Free-Standing Fountain or Cooler

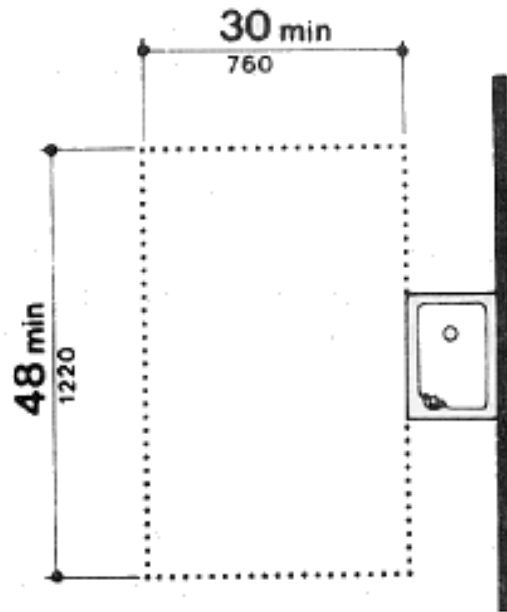


Figure 27d - Drinking Fountains and Water Coolers - Built-In Fountain or Cooler

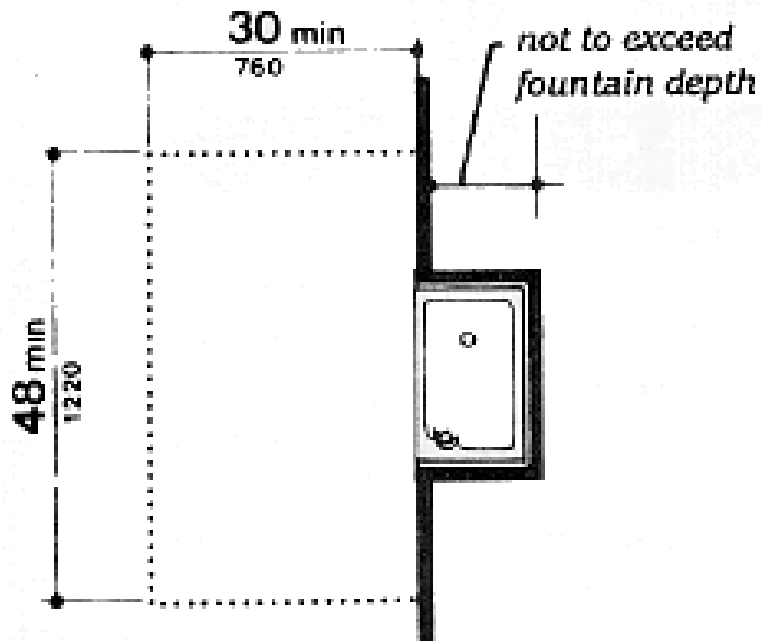


Figure 28 - Clear Floor Space at Water Closets

For a front transfer to the water closet, the minimum clear floor space at the water closet is a minimum 48 inches (1220 mm) in width by a minimum of 66 inches (1675 mm) in length. For a diagonal transfer to the water closet, the minimum clear floor space is a minimum of 48 inches (1220 mm) in width by a minimum of 56 inches (1420 mm) in length. For a side transfer to the water closet, the minimum clear floor space is a minimum of 60 inches (1525 mm) in width by a minimum of 56 inches (1420 mm) in length. (4.16.2, A4.22.3)

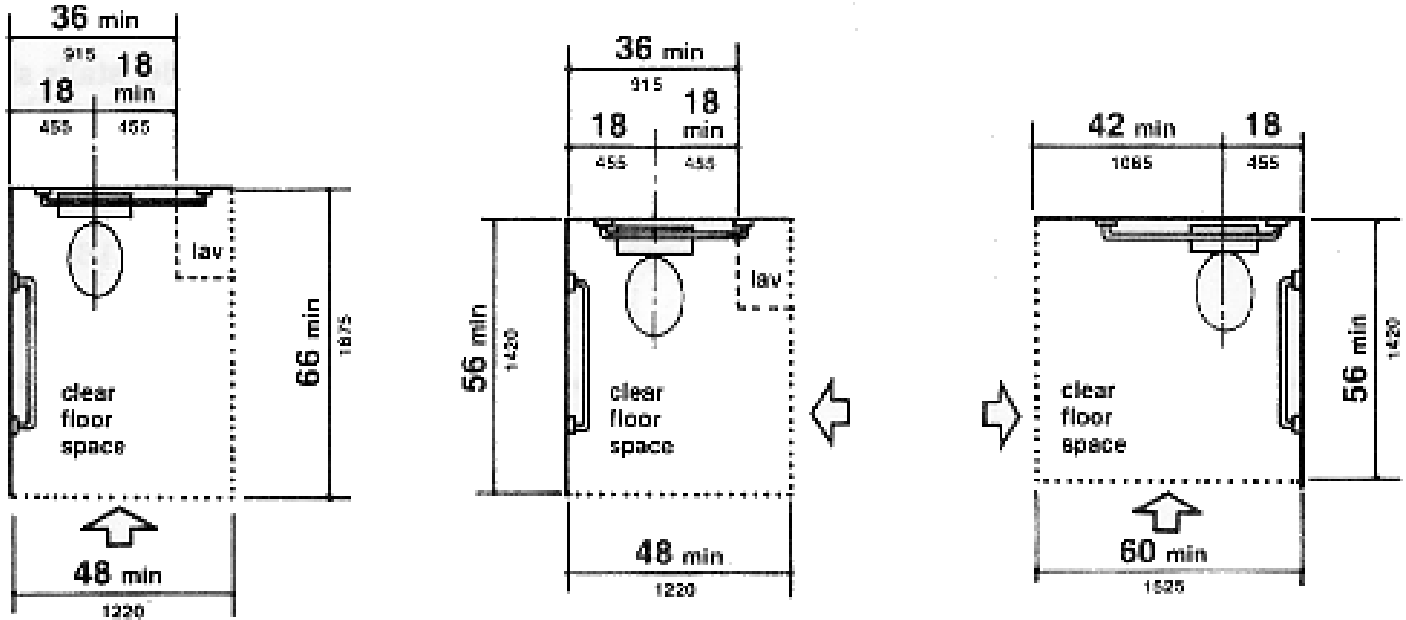


Figure 29b - Grab Bars at Water Closets, Side Wall

A 42 inch (1065 mm) minimum length grab bar is required to the side of the water closet spaced 12 inches (305 mm) maximum from the back wall and extending a minimum of 54 inches (1370 mm) from the back wall at a height between 33 and 36 inches (840-915 mm). The toilet paper dispenser shall be mounted at a minimum height of 19 inches (485 mm). (4.16.3, 4.16.4, 4.16.6)

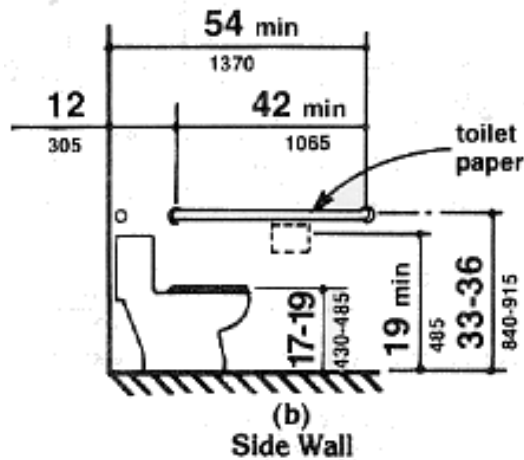


Figure 29 - Grab Bars at Water Closets

Fig. 29(a) Back Wall. A 36 inch (915 mm) minimum length grab bar is required behind the water closet mounted at a height between 33 and 36 inches (840-915 mm). The grab bar must extend a minimum of 12 inches (305) beyond the center of the water closet toward the side wall and a minimum of 24 inches (610 mm) toward the open side for either a left or right side approach.

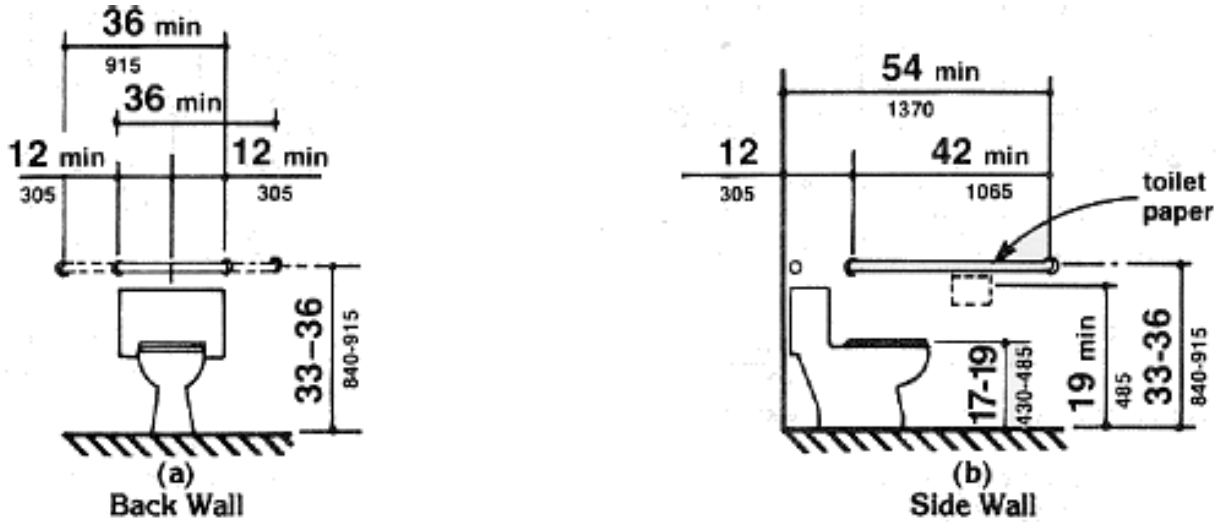


Figure 30a1 - Toilet Stalls, Standard Stall (end of row)

If a standard stall is provided at the end of a row of stalls, the door (if located on the side of the stall) may swing into to the stall, if the length of the stall is extended at least a minimum of 36 inches (915 mm) beyond the required minimum length.

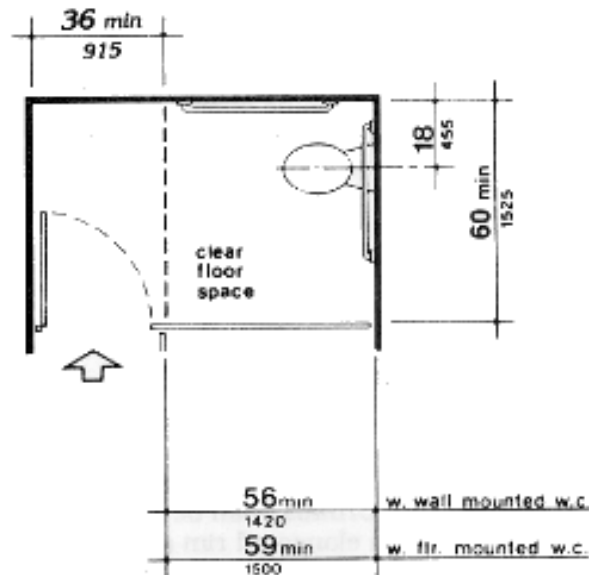


Figure 31 - Lavatory Clearances

In addition to clearances discussed in the text, the following knee clearance is required underneath the lavatory: 27 inches (685 mm) minimum from the floor to the underside of the lavatory which extends 8 inches (205 mm) minimum measured from the front edge underneath the lavatory back towards the wall; if a minimum 9 inches (230 mm) of toe clearance is provided, a maximum of 6 inches (150 mm) of the 48 inches (1220 mm) of clear floor space required at the fixture may extend into the toe space. (4.19.2, 4.19.6)

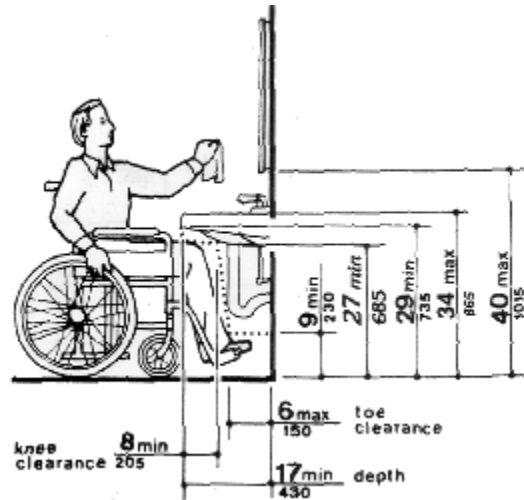


Figure 33 - Clear Floor Space at Bathtubs

Fig. 33(a) With Seat in Tub. If the approach is parallel to the bathtub, a 30 inch (760 mm) minimum width by 60 inch (1525 mm) minimum length clear space is required alongside the bathtub. If the approach is perpendicular to the bathtub, a 48 inch (1220 mm) minimum width by 60 inch (1525 mm) minimum length clear space is required.

Fig. 33(b) With Seat at Head of Tub. If the approach is parallel to the bathtub, a 30 inch (760 mm) minimum width by 75 inch (1905 mm) minimum length clear space is required alongside the bathtub. The seat width must be 15 inches (380 mm) and must extend the full width of the bathtub.

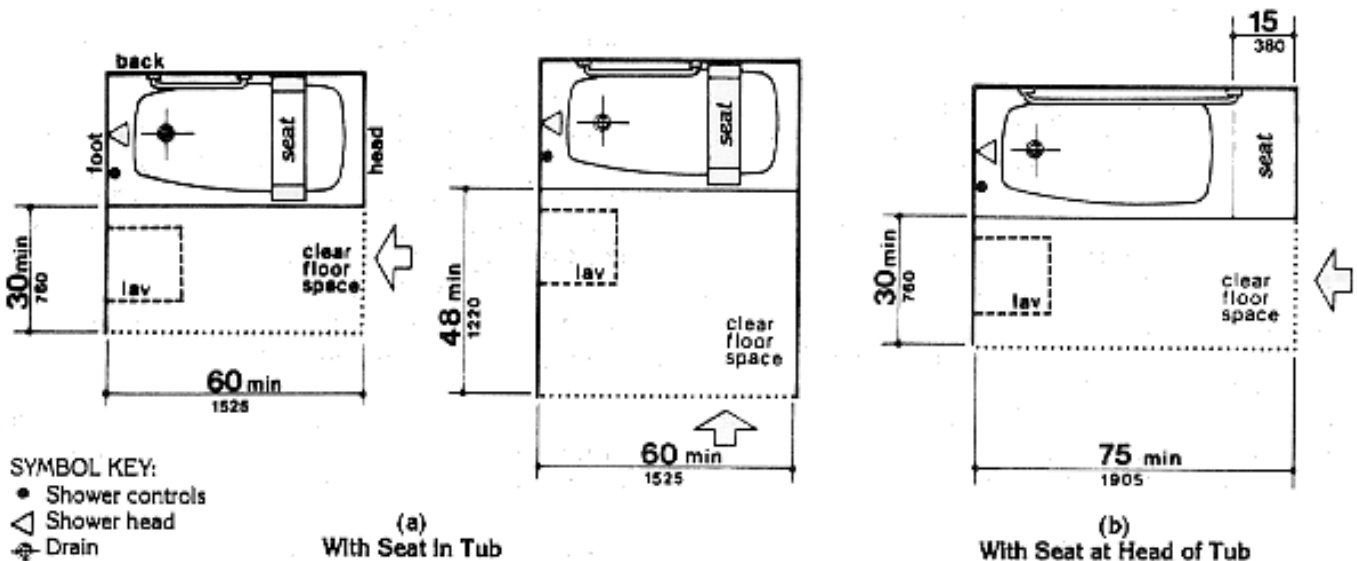


Figure 34 - Grab Bars at Bathtubs

Fig. 34(a) With Seat in Tub. At the foot of the tub, the grab bar shall be 24 inches (610 mm) minimum in length measured from the outer edge of the tub. On the back wall, two grab bars are required. The grab bars mounted on the back (long) wall shall be a minimum 24 inches (610 mm) in length located 12 inches (305 mm) maximum from the foot of the tub and 24 inches (610 mm) maximum from the head of the tub. One grab bar shall be located 9 inches (230 mm) above the rim of the tub. The others shall be 33 to 36 inches (840 mm to 910 mm) above the bathroom floor. At the head of the tub, the grab bar shall be a minimum of 12 inches (305 mm) in length measured from the outer edge of the tub.

Fig. 34(b) With Seat at Head of Tub. At the foot of the tub, the grab bar shall be a minimum of 24 inches (610 mm) in length measured from the outer edge of the tub. On the back wall, two grab bars are required. The grab bars mounted on the back wall shall be a minimum of 48 inches (1220 mm) in length located a maximum of 12 inches (305 mm) from the foot of the tub and a maximum of 15 inches (380 mm) from the head of the tub. Heights of grab bars are as described above.

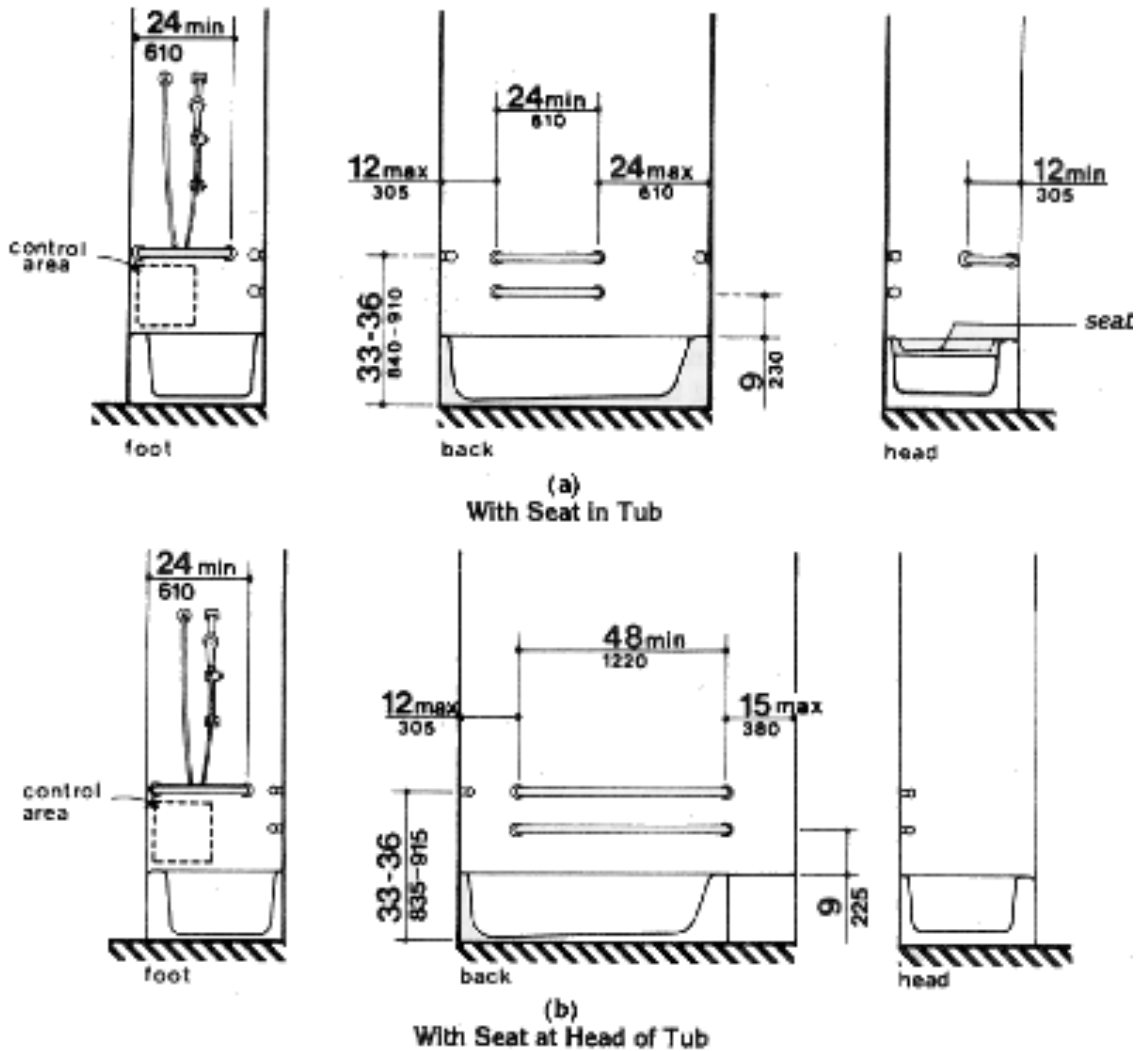


Figure 35b - Shower Size and Clearances, 30-in by 60-in (915mm by 915mm) Stall

The clear floor space alongside the shower shall be a minimum of 60 inches (1220 mm) in length by a minimum of 36 inches (915 mm) in width.

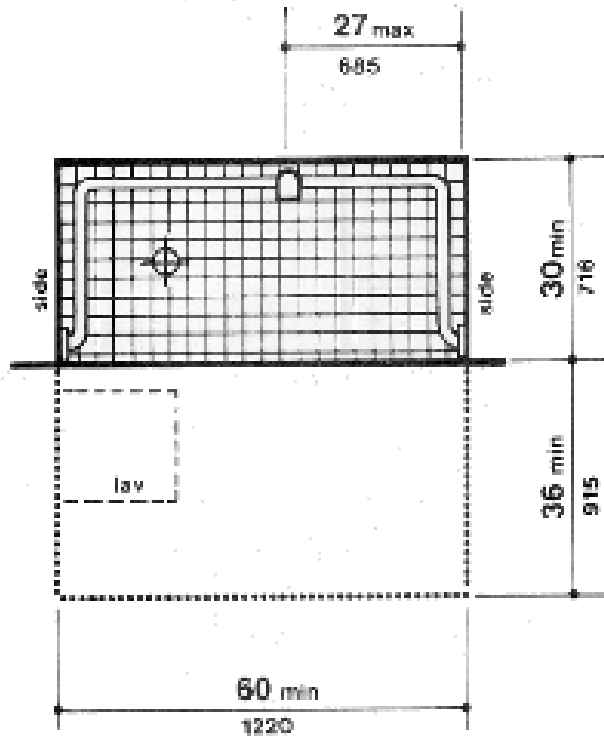


Figure 43c - International TTY Symbol Conditions



(c)
International TDD Symbol

Figure 43b - International Symbol of Accessibility, Display Conditions
The symbol contrast shall be light on dark, or dark on light.



(b)

Display Conditions
International Symbol of Accessibility

Figure 46 - Space Requirements for Wheelchair Seating Spaces in Series

Fig. 46(a) Forward or Rear Access. If seating space for two wheelchair users is accessed from the front or rear, the minimum space required is 48 inches deep by 66 inches wide.

Fig. 46(b) Side Access. If seating space for two wheelchair users is accessed from the side, the minimum space required is 60 inches deep by 66 inches wide.

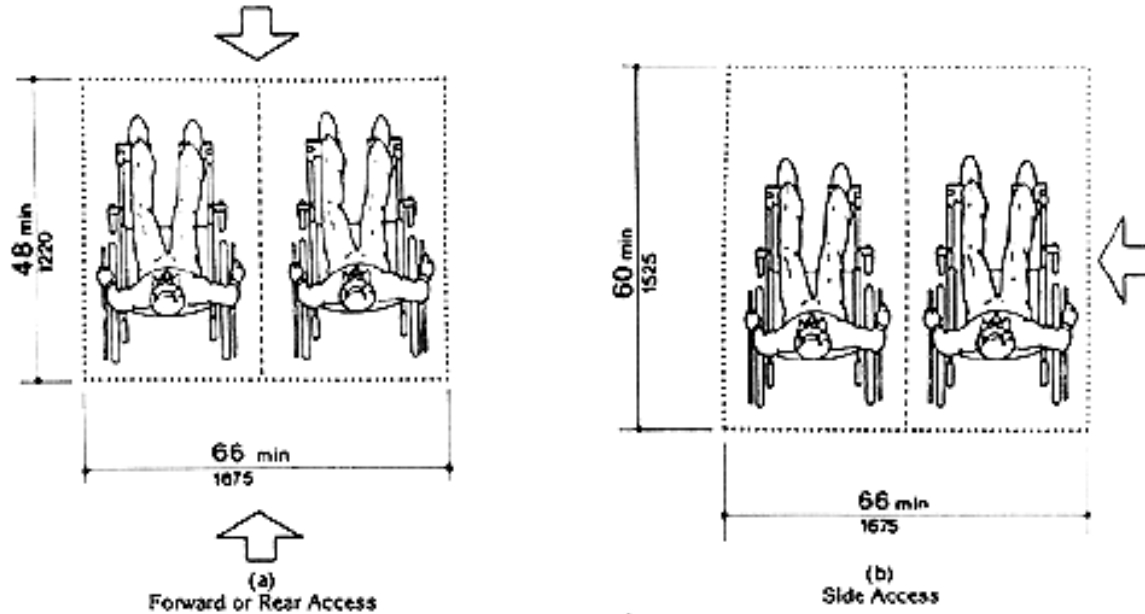


Fig. 46
Space Requirements for Wheelchair
Seating Spaces In Series

Figure 53 - Food Service Lines

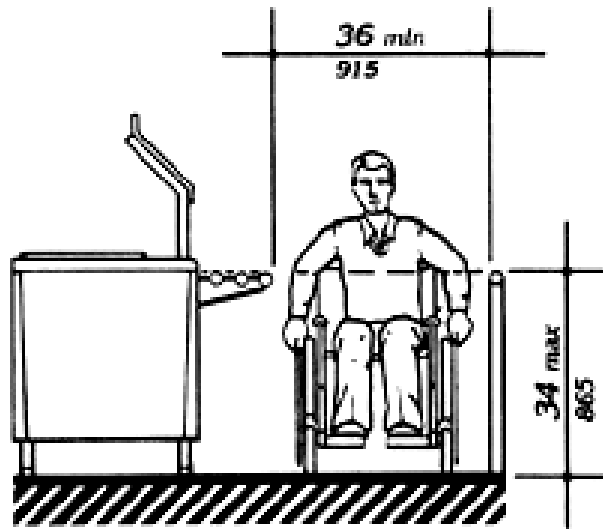


Fig. 53
Food Service Lines

Figure 54 - Tableware Areas

The maximum height is 54 inches (1370 mm).

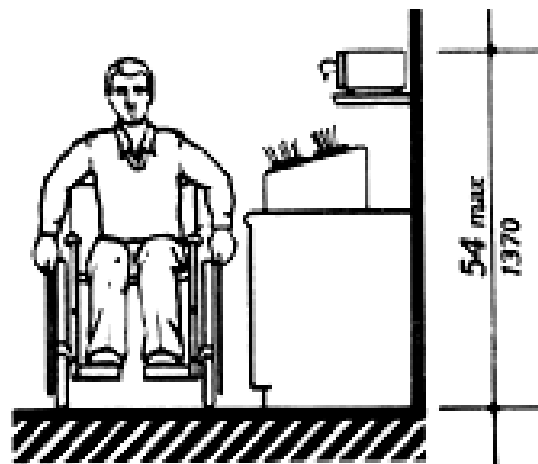


Fig. 54
Tableware Areas