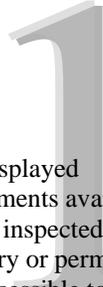


# NEW CASTLE COUNTY ACCESSIBILITY CHECKLIST



**Pass**    **Corr. Req'd**    **N/A**

**GENERAL**

- |     |                       |                       |                       |   |                        |
|-----|-----------------------|-----------------------|-----------------------|---|------------------------|
| 1.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Site readily identifiable, permit displayed   | Ch 6 6.03.012(Q)       |
| 2.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | NCC approved construction documents available on site   | Ch 6 6.03.013(E)(F)(1) |
| 3.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Access provided to all areas to be inspected  | Ch 6 6.03.018(A)(E)    |
| 4.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Buildings and structures, temporary or permanent, including their associated sites and facilities, shall be accessible to persons with physical disabilities  | IBC 1103.1             |
| 5.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Spaces w/in employee work areas accessible (except where < 150 ft <sup>2</sup> and elevated more than 7")   | IBC 1103.2.3           |
| 6.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Common use circulation paths w/in employee work areas shall be accessible (except where < 300 ft <sup>2</sup> and defined by perm. partitions, counters, casework or furnishings)   | IBC 1104.3.1           |
| 7.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Accessible routes provided from parking, pedestrian, and public transportations stops to accessible building entrance   | IBC 1104.1             |
| 8.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Specific Occupancy criteria as outlined in:<br>1107 Dwelling/sleeping units    1107.5 Use Group I    1107.6 Use Group R<br>1108.2 Assembly area seating    1108.4 Judicial facilities    1108.3 Self-service storage facilities |                        |
| 9.  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Toilet and bathing facilities shall be accessible   | IBC 1109.2             |
| 10. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Drinking fountains (at least 50% but no less than 1)  | IBC 1109.5             |
| 11. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Elevators (passenger on accessible routes)  | IBC 1109.6             |
| 12. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Point of sale and service counters-where provided at least 1 shall be access.   | IBC1109.12.3           |
| 13. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Signage identified by the International Symbol of Accessibility installed at:   | IBC 1110               |
|     |                       |                       |                       | <input type="checkbox"/> Parking spaces req'd by 1106.1   | UDC 40.22.613          |
|     |                       |                       |                       | <input type="checkbox"/> Passenger loading zones, accessible  |                        |
|     |                       |                       |                       | <input type="checkbox"/> Areas of refuge, accessible  |                        |
|     |                       |                       |                       | <input type="checkbox"/> Entrances (accessible) where not all entrances are accessible  |                        |
|     |                       |                       |                       | <input type="checkbox"/> Unisex toilet and bathing rooms  |                        |
|     |                       |                       |                       | <input type="checkbox"/> Toilet or bathing rooms where multiple single-user rooms are clustered at a single location  |                        |
|     |                       |                       |                       | Directional Signage indicating the route to the nearest like accessible element installed at:   |                        |
|     |                       |                       |                       | <input type="checkbox"/> Building entrances where inaccessible  |                        |
|     |                       |                       |                       | <input type="checkbox"/> Public toilet and bathing facilities where inaccessible  |                        |
|     |                       |                       |                       | <input type="checkbox"/> Elevators not serving an accessible route  |                        |
|     |                       |                       |                       | <input type="checkbox"/> Exits and elevators serving a req'd access. space, but not providing an approved accessible means of egress  |                        |

**Comments** \_\_\_\_\_

I hereby certify that this commercial building has been built to comply with all applicable New Castle County Building Codes.

**CONTRACTOR:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

I hereby certify that this commercial building has been inspected and this visual inspection indicates this building complies with all applicable New Castle County Building Codes.

**INSPECTOR :** \_\_\_\_\_ **DATE:** \_\_\_\_\_

Permit Number \_\_\_\_\_ Pass \_\_\_\_\_ Fail \_\_\_\_\_

## GENERAL SITE AND BUILDING ELEMENTS

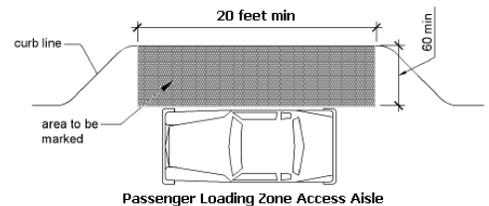
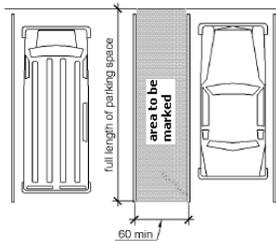
### Parking Spaces

- Car **96"** min wide (made from centerline of marking)
- Van **132"** min wide (**96"** where adjacent access aisle is **96"** min wide)
- Spaces marked to define width (lines)
  - Access Aisle (AA) provided at all spaces
    - AA adjoins accessible route
    - 2 spaces may share a common AA
    - AA does not overlap the vehicular way
    - Angled VAN spaces have AA on passenger side
    - AA **60"** min wide
    - AA extends full length of served parking space
    - AA marked so as to discourage parking in them
- FLOOR SURFACES in compliance and sloped  $\leq 1:48$  and on same level as parking spaces they serve
- Vertical Clearance – **98"** min for VAN PS, associated AA, vehicular routes from an entrance to the VAN PS, and from the VAN PS to a vehicular exit serving them
- Identification – Ground mounted signs and pavement marking req's symbol  and statement informing public that the parking space is reserved for use by disabled persons.
  - VAN signage contain designation "van accessible"
  - VAN signage **60"** min above floor (to bottom of sign)
- Parking Spaces and AA designed so that cars and vans cannot obstruct req'd clear width of accessible routes

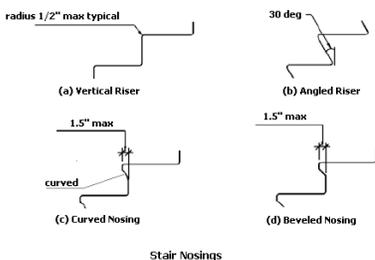


### Passenger Loading Zones (PLZ)

- PLZ provide vehicular pull-up space **96"** min wide and **20'** min long
- PLZ have adjacent AA
  - AA adjoins an accessible route
  - AA do not overlap the vehicular way
  - AA serving vehicle pull-up spaces **60"** min wide
  - AA **20'** min long
  - AA marked to discourage parking in them
- FLOOR SURFACES – Vehicle pull-up spaces and AA serving them comply w/ FLOOR SURFACES and sloped  $\leq 1:48$ 
  - AA at same level as vehicle pull-up spaces they serve
- Vertical Clearance – Vehicle pull-up spaces, AA serving them, and vehicular route from an entrance to the PLZ, and from the PLZ to a vehicular exit serving them = min **114"** vertical clearance (**9'6"**)

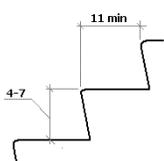


### Stairways

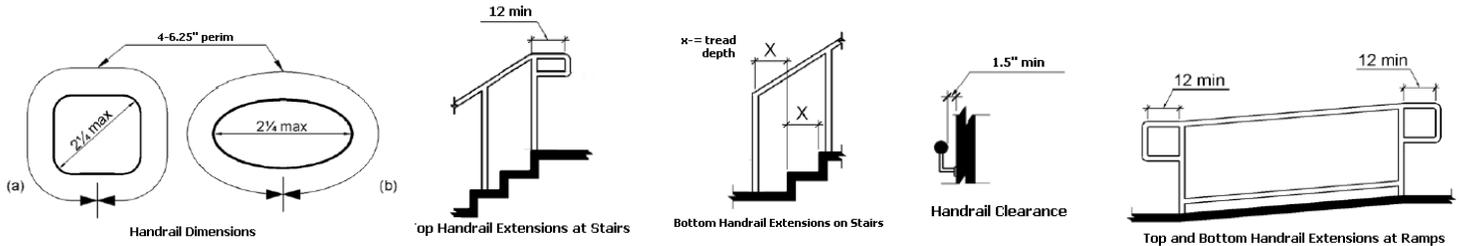


### ANSI 504

- Risers (**4" min to 7" max**) and Treads (**11" min**) uniform
- Open Risers not permitted
- Tread surface comply with FLOOR SURFACES and max slope **1:48**
- Nosing curvature radius  $\frac{1}{2}$ " max
  - Nosings that project beyond risers have their leading edge curved or beveled
  - Risers permitted to slope under the tread **30°** from vertical
  - Nosing projection **1½"** max over the tread or floor below
  - Leading **2"** of tread visually contrasts dark on light or light on dark from remainder of tread
- Treads and landings subject to wet conditions designed to prevent accumulation of water
- Lighting provided on interior stairs at 10 foot-candles
- Stair Level Identification located at each floor level landing in all enclosed stairways (w/ tactile characters)
  - Signage posted adjacent to door leading from stairwell into the corridor
  - Signage identifies the floor level
- Exit door discharging to outside or to level of exit discharge has tactile sign stating "EXIT"



- Handrails provided on both sides of stairs and ramps
  - Handrails continuous full length of each stair flight or ramp run
  - Inside H/rail on switchback or dogleg stairs or ramps continuous between flights or runs
  - Top of gripping surface **34"- 38"** vertically above stair nosings, ramp surfaces and walking surfaces
    - Handrail height is consistent
  - Clearance between handrail gripping surface and adjacent surfaces **1½"** min.
  - Gripping surfaces continuous, w/o interruption by newel posts or other obstructions
- EXCEPTION:
  - Handrail brackets or balusters attached to bottom surface of handrail not considered obstructions if:
    - Not more than **20%** of the handrail length is obstructed
    - Horiz projections beyond sides of handrail occur **1½"** min below bottom of handrail, and provided that for each **½"** of additional handrail perimeter above **4"**, the vertical clearance dimension of **1½"** can be reduced by **1/8"**
    - Edges are rounded
  - Handrails provided along walking surfaces with slopes  $\leq 1:20$ , bottoms of handrail gripping surfaces are permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards
- Circular Cross Section outside diameter of **1¼"** min and **2"** max
- Non-circular Cross Section perimeter **4"- 6¼"** and cross sectional dimension of **2¼"** max
- Handrails and any wall or other surfaces adjacent to them free of any sharp or abrasive elements
  - Edges rounded
- Handrails do not rotate w/in their fittings
- Handrails extend beyond and in the same direction of stair flights and ramp runs
  - Top and Bottom Extensions min **12"** beyond top and bottom of RAMP runs and return to wall, guard, or floor
  - Top Extensions at STAIRS **12"** min beginning directly above the landing nosing and return to wall, guard, or landing surface or continuous to adjacent stair flight
  - Bottom Extensions at STAIRS for a horiz distance equal to one tread beyond bottom tread nosing and return to wall, guard, or landing surface, or continuous to adjacent stair flight



**Communication Elements and Features**  
**Signs-Visual Characters**

**ANSI Chpt 7**

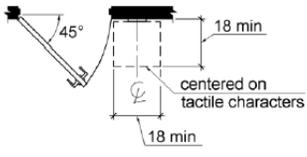
- VC **40"** min above floor of the viewing position measured to baseline of character.  
 Except: VC indicating elevator car controls
- Characters contrast with their backgrounds

Height above Floor to Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
40" to less than or equal to 70"	Less than 6'	5/8"
	6' and greater	5/8", plus 1/8" per foot of viewing distance above 6'
Greater than 70" to less than or equal to 120"	Less than 15'	2"
	15' and greater	2", plus 1/8" per foot of viewing distance above 15'
Greater than 120"	Less than 21'	3"
	21' and greater	3", plus 1/8" per foot of viewing distance above 21'

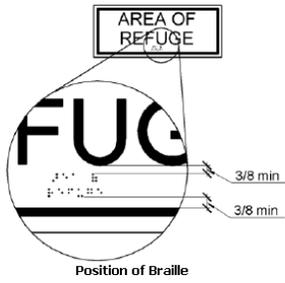
Visual Character Height

**Signs-Tactile Characters**

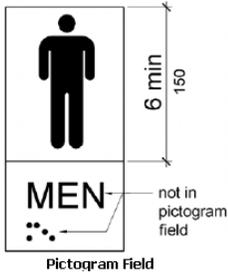
- Raised above background **1/32"**
- Height- Upper case "I" = **5/8"-2"**  
**Exception:** where separate tactile and visual characters with same info are provided, height of tactile upper-case letter "I" may be **½"** min.
- Width-Upper case "O" = **55-110%** of upper-case "I" height



Location of Tactile Signs at Doors



Position of Braille



Pictogram Field

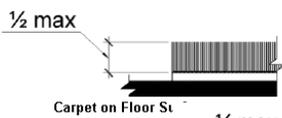
- Spacing – meas. between 2 closest points of adjacent tactile characters within a message
  - 1/8”** min- at top surface of character
  - 1/16”** min – at base of character
  - 3/8”** min – from raised borders and decorative elements
- Height above floor – **48”** min to **60”** max meas. to baseline of character
  - Exception:** tactile characters for elevator car controls
- Location – where provided at door, on latch side alongside of door
  - so that a clear floor area **18x18”** min provided beyond the arc of door swing between the closed position and **45°** open position.
- Finish and Contrast – characters have a non-glare finish and contrast w/ their background
- Braille-located below the corresponding text
  - separated **3/8”** min from any other tactile characters
  - separated **3/8”** min from raised borders and decorative elements
  - mounting height **48-60”** above floor
- Pictograms-**6”** min height
  - characters or Braille not located in the pictogram field
  - finish and contrast with background
  - where text descriptors are req'd, they shall be located directly below the pictogram field

**Building Blocks**

**Floor Surfaces**

- Shall be stable, firm, and slip resistant
- Edges secured and trim installed
- Carpet or carpet tile securely attached and be level
  - Pile **1/2”** max
- Shall comply with **CHANGES IN LEVEL**
- Openings shall not allow the passage of a **1/2”** dia. sphere (elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel). Does not apply to platforms and hoistway clearances.
- Max allowable vertical height change **1/4”**
- Beveled changes in level **>1/4”** but **<1/2”** allowable w/ slope no steeper than **1:2**
- Changes in level **>1/2”** allowable but must comply with **RAMPS**

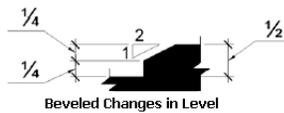
**Changes in Level**



Carpet on Floor Step



Vertical Changes in Level

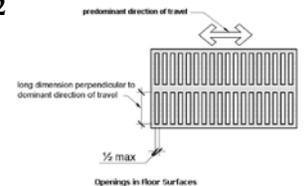


Beveled Changes in Level



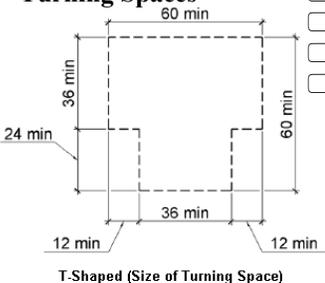
Beveled Changes in Level

**ANSI 303**



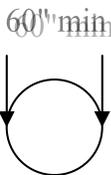
Openings in Floor Surfaces

**Turning Spaces**



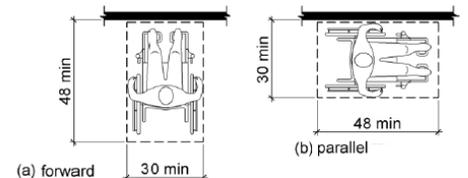
T-Shaped (Size of Turning Space)

- Floor surface not steeper than **1:48** and complies with **CHANGES IN LEVEL**
- Shall be circular w/ **60”** diam. and can include **KNEE AND TOE CLEARANCES**
- Shall be T-shaped w/ a **60”** min square and comply with **TURNING SPACES**
- Doors shall be permitted to swing into turning spaces



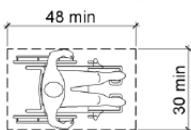
Circular

**ANSI 304**



Position of Clear Floor Space

**Clear Floor Space**



Size of Clear Floor Space

- Floor surface not steeper than **1:48** and complies with **CHANGES IN LEVEL**
- Shall be **48”** long by **30”** wide minimum
- Positioned for either **FORWARD** or **PARALLEL APPROACH** to an element
- One full, unobstructed side of the CFS shall adjoin or overlap an access. route or another CFS
- CFS in an **ALCOVE**, additional maneuvering clearances shall be provided
- CFS positioned for **PARALLEL APPROACH**: **ALCOVE = 60”** wide min where depth **>15”**
- CFS positioned for **FORWARD APPROACH**: **ALCOVE = 36”** wide min where depth **>24”**

**ANSI 305**

**Knee and Toe Clearance**

ANSI 306.3

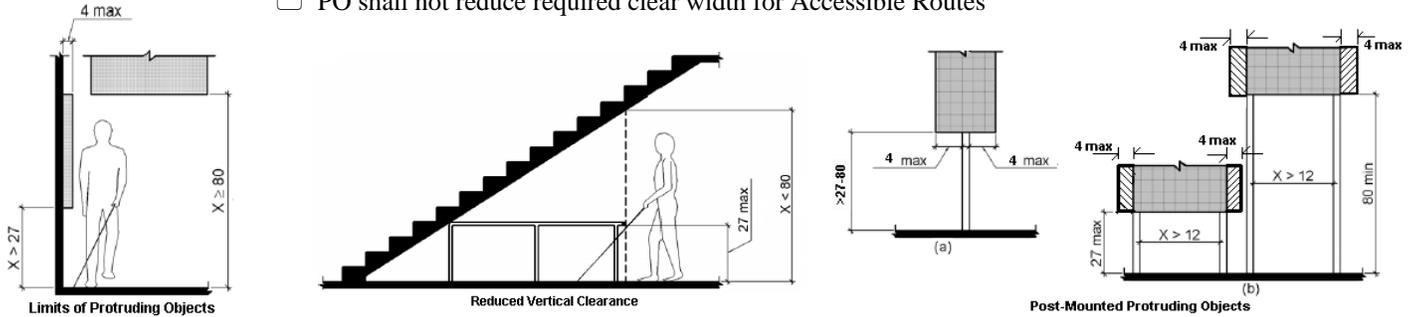
- Toe Clearance: Space between the floor and **9"** above the floor
- Toe clearance **17-25"** under an element (**30"** min width)
- Knee Clearance: Space beneath an element between **9-27"** (**30"** min width)
- Maximum depth of **25"** at **9"** above the floor
- Minimum depth of **11"** at **9"** above the floor and **8"** min depth at **27"** above floor



**Protruding Objects**

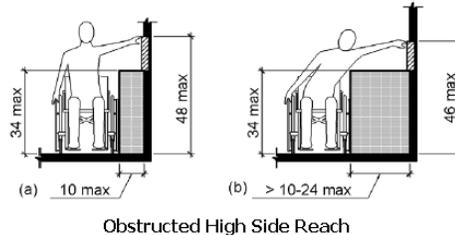
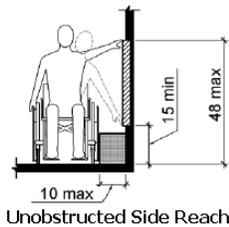
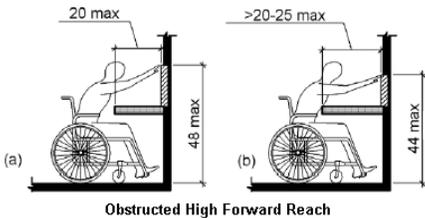
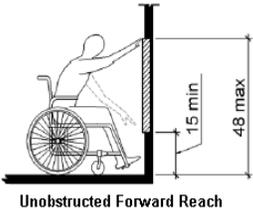
ANSI 307

- Between **27-80"** above floor = **4"** max projection into circulation path
  - Handrails **4½"** max
  - Door closers and stops **78"** min above the floor
- Post-mounted objects: may overhang **4"** max where between **27-80"** above the floor
- Reduced vertical clearance: guardrails or other barriers installed where Protruding Objects limits (as above) exceeded and where vertical clearance is **<80"** (Barrier shall be **27"** high min above the floor)
- PO shall not reduce required clear width for Accessible Routes



**Reach Ranges**

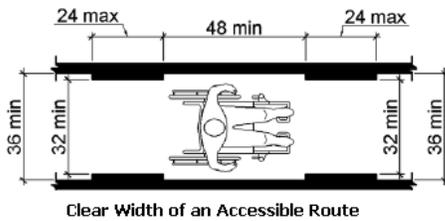
- FWD Reach: where UNOBSTRUCTED- HIGH FWD Reach **48"** max.  
LOW FWD Reach **15"** min above the floor
  - where OBSTRUCTED-Clear Floor Space extends beneath the element not less than the req'd reach depth over the obstruction-  
HIGH FWD Reach **48"** max where reach depth is **20"** max  
HIGH FWD Reach **44"** max where reach depth **>20 to 25"**
- SIDE Reach: where UNOBSTRUCTED and CFS allow parallel appch to an element then,  
HIGH SIDE Reach **48"** max  
LOW SIDE Reach **15"** min above the floor
  - where OBSTRUCTED -CFS allows parallel appch to an element then,  
obstruction height **34"** max, obstruction depth **24"** max  
HIGH SIDE Reach **48"** max for a reach depth of **10"** max  
HIGH SIDE Reach **46"** max for a reach depth of **>10"-24"**



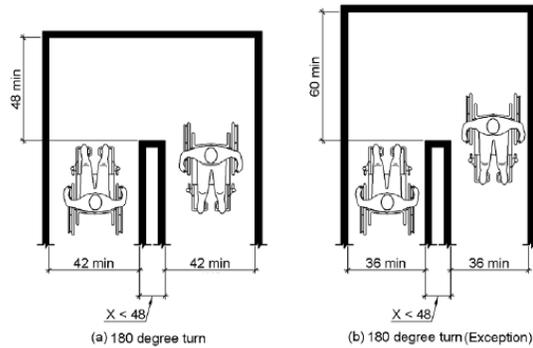
**ACCESSIBLE ROUTES**

**Walking Surfaces**

- Shall consist of one or more of the following components: ANSI 402
  - Walking surfaces not steeper than **1:20**
  - Doors and Doorways, ramps, curb ramps excluding flared sides, elevators, platform lifts
  - All portions comply w/ applicable portion of this standard
- Revolving doors, revolving gates, turnstiles **SHALL NOT** be part of an accessible route
- Walking surfaces not steeper than **1:20 (1:48 max cross slope)**
- Segment Length **≤24"** min width **32"**; **>24"** min width **36"** (consecutive segments of **32"** in width **MUST** be separated by a route segment **48"** min in length x **36"** min in width)
- CLEAR WIDTH AT TURN**; where AR makes **180°** turn around object that is less than **48"** in width, **CLEAR WIDTHS** min **42"** approaching turn, min **48"** during turn, min **42"** leaving turn (does not apply where CW at turn is min **60"**)
- PASSING SPACE**; an AR w/ CW **<60"** **SHALL** be provided passing spaces at intervals of **200'** max
- PS shall be min **60" x 60"** or an intersection of two walking surfaces that provide a **T-SHAPED** turning space provided the base and arms of the T-SHAPED space extend **48"** min beyond the intersection.



Clear Width of an Accessible Route



(a) 180 degree turn  
(b) 180 degree turn (Exception)  
Clear Width at Turn

**Doors and Doorways (where part of AR)**

- DOORWAYS** clear opening width of **32"** min. (meas between the face of door and stop, w/ door open **90°**)
- OPENINGS, DOORS, DOORWAYS W/O DOORS >24"** in depth = min clear opening **36"**
  - No projections into C.O.Width **<34"** above floor
  - Projections into C.O.Width **34-80"** above floor = **4"** max (EXCEPTIONS: Door closers and stops allowable at **78"**)
- MANEUVERING CLEARANCES AT DOORS**: shall include the full clear opening width of the doorway

TYPE OF USE		MINIMUM MANEUVERING CLEARANCES	
Approach Direction From	Door side	Perpendicular to Doorway	Parallel to Doorway (beyond latch unless noted)
Front	Pull	60"	18"
Front	Push	48"	0"
Hinge side	Pull	60"	36"
Hinge side	Pull	54"	42"
Hinge side	Push	42" <sup>1</sup>	22" 3&4
Latch side	Pull	48" <sup>2</sup>	24"
Latch side	Push	42" <sup>2</sup>	24"

1 add 6" if closer and latch provided

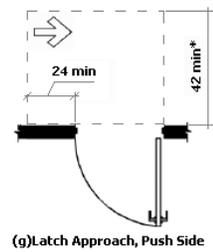
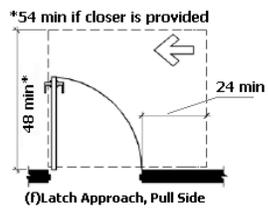
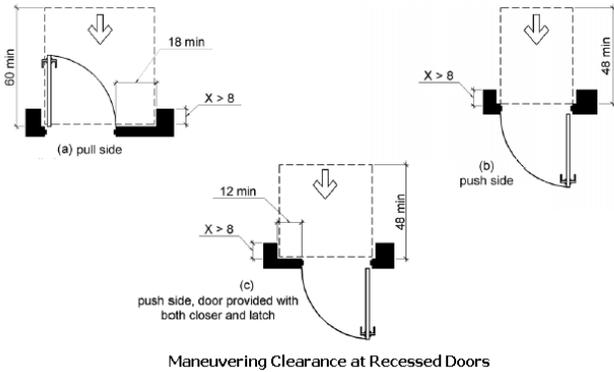
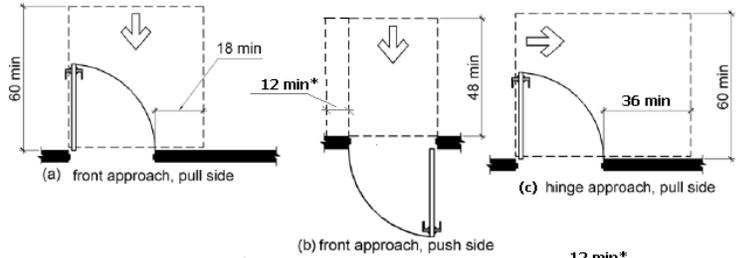
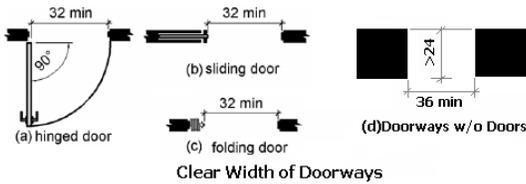
2 add 6" if closer provided

3 add 12" beyond latch if closer and latch provided

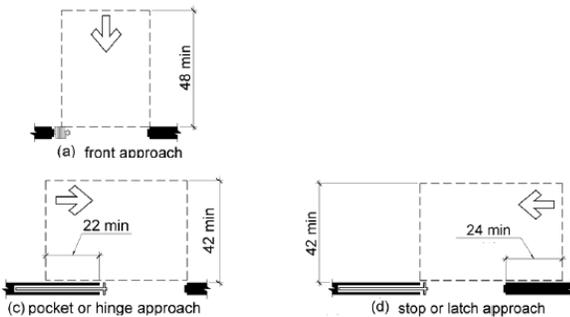
4 beyond hinge side

- Swinging Doors comply with chart
- Sliding and Folding Doors comply with chart
- Doorways w/o Doors where **<36"** wide comply w/ chart

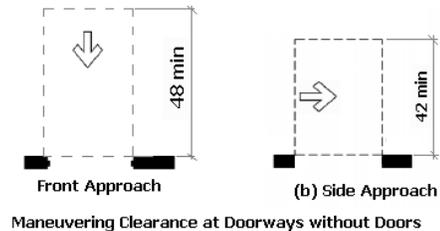
- Recessed Doors comply w/ chart where any obstruction w/in 18" of the latch side of a doorway projects >8" beyond door face, measured perpend. to door face (MC provided for FWD APPROACH)
  - Floor surfaces w/in MC slope  $\leq 1:48$  and comply w/ FLOOR SURFACES
  - Thresholds at Doorways 1/2" max in height where provided
  - Raised thresholds and CHANGES IN LEVEL shall comply w/FLOOR SURFACES and C.I.L. (does not apply to existing or altered thresholds)
  - 2 Doors in Series min distance 48" plus width of any door swinging into the space (space between doors shall have TURNING SPACE)
  - Door Hardware complies with OPERABLE PARTS, shall be 34-48" above floor
  - Closing Speed DOOR CLOSERS 5 sec min from 90° to 12°
  - Closing Speed SPRING HINGES 1.5 sec min from 70° to closed
  - Opening Force (not fire doors) Interior hinged, Sliding or Folding door 5 lbs max
  - Door Surface w/in 10" of floor, smooth on push side extending full width of door
    - Parts creating horiz or vert joints in such surface w/in 1/16" of the same plane as the other
    - Cavities created by ADDED kick plates shall be capped
- Exceptions: Sliding doors, Doors that do not extend to w/in 10" of floor, Temp glass doors w/o stiles and having a bottom rail or shoe w/ the top leading edge tapered at  $\geq 60^\circ$  from horiz NOT required to meet the 10" bottom rail height req.
- Vision Lites max 43" above floor where provided (except where lowest part is >66" above floor)
  - Automatic Doors comply w/ ANSI/BHMA A156.10 for full power doors and ANSI/BHMA A156.19 for power-assist and low-energy doors
    - Control switches (manual) provided w/ CFS adjacent to the control and located beyond the arc of the door swing



Maneuvering Clearance at Manual Swinging Doors



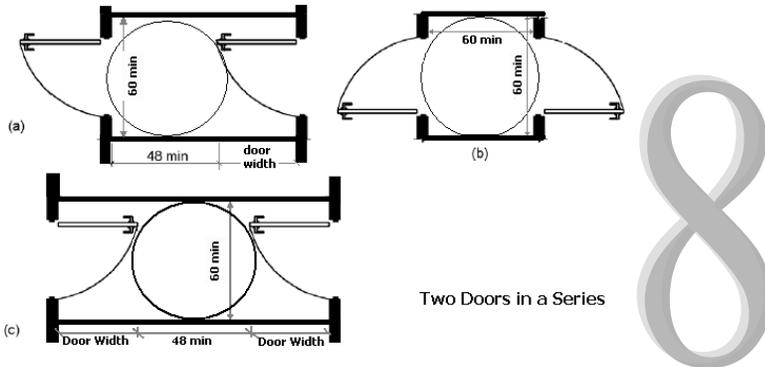
Maneuvering Clearance at Sliding and Folding Doors



Maneuvering Clearance at Doorways without Doors

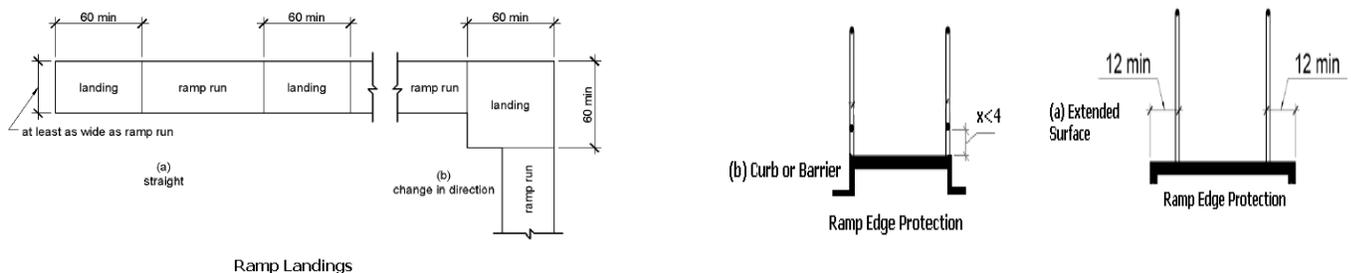
## Two Doors in Series

- 48" min distance between 2 doors plus the width of any door swinging into the space.
- 60" min TURNING SPACE provided between doors
- OP operable w/ 1 hand w/ no tight grasping, pinching, or twisting of the wrist
  - OP located 34-48" above floor



## Ramps (along AR)

- Max slope **1:12** (Max cross slope **1:48**)
- Floor surfaces shall comply with FLOOR SURFACES section
- Clear Width **36"** min (measured between h/rails where provided)
- Rise **30"** max for any ramp run
- Landings provided at top and bottom
  - Slope **1:48** max
  - Clear Width at least as wide as the widest ramp run leading to the landing
  - Clear Length **60"** min
  - Change in direction provided with TURNING SPACE
  - Doorway MANEUVERING CLEARANCE may overlap landing area
- HANDRAILS provided where ramp run exceeds **6"**
- Edge Protection provided on each side of ramp run and at each side of ramp landing
  - Exception: 1) ramps not req'd to have h/rails where curb ramp flares are provided
  - 2) sides of ramp landings serving an adjoining ramp run or stairway
  - 3) sides of ramp landings having a vert. drop-off of  $\frac{1}{2}$ " max w/in **10"** horiz of the min landing area
  - Extended Floor Surface or ramp run or ramp landing extends **12"** min beyond inside face of railing
  - Curb or Barrier provided that prevents the passage of a **4"** dia. sphere where any portion of the sphere is w/in **4"** of the floor
- Ramps subject to WET CONDITIONS designed to prevent the accumulation of water

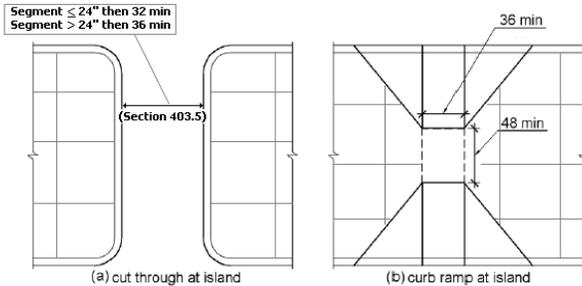
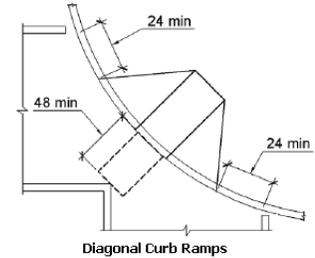
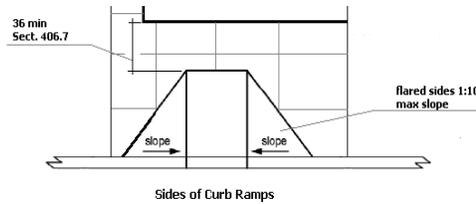
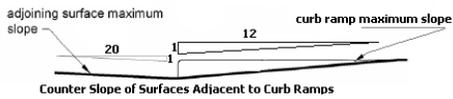


## Curb Ramps (along AR)

- Counter Slope of adjoining gutters and road surfaces immediately adjacent to curb ramp **1:20** max slope
  - Adjacent surfaces at transitions at curb ramps to walks, gutters, and streets at same level
- Curb Ramp Flares max **1:10** slope where provided
- Width min **36"** exclusive of flared sides
- Floor surface at Curb Ramps comply with FLOOR SURFACES section
- Located so they do not project into vehicular traffic lanes, parking spaces or parking access aisles
- Landings provided at top (Clear length **36"** min; Clear width at least as wide as curb ramp, excluding flares)
- Curb Ramps located or protected to prevent their obstruction by parked vehicles
- Handrails NOT required
- Diagonal or Corner Curb Ramps edges parallel to direction of pedestrian flow
  - Bottoms **48"** min clear space outside active traffic lanes of the roadway
  - Diagonal Curb Ramps w/ flared sides have a segment of curb **24"** min long on each side of curb ramp and w/in the marked crossing
- Raised Islands in crossings cut through level w/ street or have curb ramps on both sides

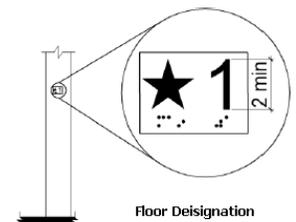
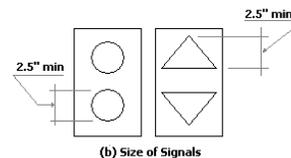
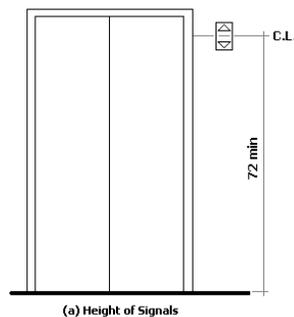
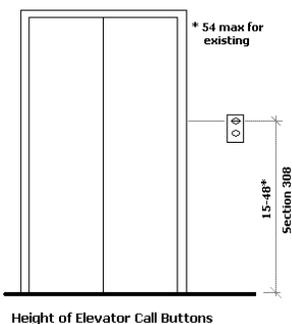
- CR has level area **48"** min long by **36"** min wide at top of the CR in the part of the island intersected by the crossings (**48"** length oriented in direction of the running slope of curb ramp) (**48" x 36"** areas and the AR may overlap)

- Detectable Warnings comply w/ section 406 where provided



## ELEVATORS

- Call controls – objects beneath hall call buttons **1"** max protrusion
  - Located w/in one of the REACH RANGES
  - Button size  $\frac{3}{4}"$  min in smallest dimension
  - CLEAR FLOOR SPACE provided at call controls
  - UP button located above the DOWN button
  - Call buttons have visible signals to indicate when call is registered and when call is answered
  - Provided KEYPADS arranged in standard telephone keypad arrangement
- Hall Signals- a visible and audible signal provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel
  - Visible signal fixtures centered **72"** min above floor.
    - Min **2½"** measured along vertical centerline.
    - Visible from floor area adjacent to hall call button
  - Audible signals sounds once for UP and twice for DOWN or have verbal annunciators
- Hoistway Signs
  - Floor designations provided in tactile (raised) characters located on both jambs
    - Tactile characters **2"** min height
    - Tactile STAR provided on both jambs at main entry level



Elevator Visible Signals

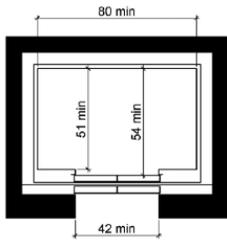
- Doors horizontally sliding (Car gates prohibited)
  - Doors open and close automatically
  - Doors provided w/ reopening device that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person. (**5-29"** nominal above floor)
    - Reopening device shall not REQUIRE contact to operate (though contact permitted)
    - Reopening device shall remain effective for **20 seconds** min
  - Doors shall remain fully open in response to a car call for **3 seconds** min

## Minimum Dimensions of Elevator Cars

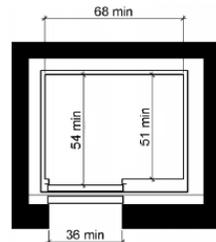
Door Location	Door Clear Opening Width	Inside Car, Side to Side	Inside Car, Back Wall to Front Return	Inside Car, Back Wall to Inside Face of Door
Centered	42"	80"	51"	54"
Side (Off Center)	36" <sup>1</sup>	68"	51"	54"
Any	36" <sup>1</sup>	54"	80"	80"
Any	36" <sup>1</sup>	60" <sup>2</sup>	60" <sup>2</sup>	60" <sup>2</sup>

1 Tolerance of minus 5/8" permitted

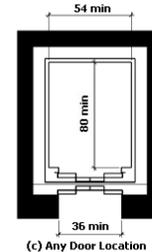
2 Other car config that provide 36" door clear opening width & a turning space complying w/ Section 304 w/ door closed is permitted



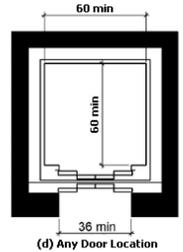
(a) Centered Door Location



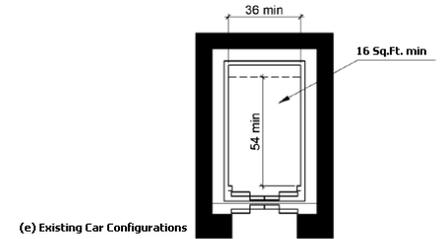
(b) Side (Off-Centered Door) Location



(c) Any Door Location



(d) Any Door Location



(e) Existing Car Configurations

Inside Dimensions of Elevator Cars

- Elevator Car Controls located w/in one of the REACH RANGES listed
  - May be raised or Flush- 3/4" min in their smallest dimension
  - Arranged in Ascending order in Standard Telephone Keypad format
  - Emergency Controls – max 35" above floor to centerline
  - Emergency Controls – grouped at BOTTOM of panel (including alarm)
- Designations and Indicators of Car Controls –
  - Identified by TACTILE characters
  - TACTILE characters and BRAILLE designations placed immed. to left of their control button
  - Emergency Stop, Alarm, Door Open, Door Close, Main Entry Floor and Phone properly identified
  - Visible Indicators provided that indicated call has been registered (for buttons with floor designations)
    - Visible Indicators extinguish when car arrives at designated floor
  - Keypads identified by visual characters per 703.2 and centered on corresponding keypad button
    - #5 key has single raised dot
- Car Position Indicators – Audible and Visible indicators provided
  - Visible Indicators – characters 1/2" min height
    - Located above car control panel or above the door
    - Floor Arrival indicated by illumination as car passes a floor and arrives at a floor served by elevator
  - Audible Indicators – Automatic non-verbal audible signal provided that sounds as the car passes or is about to stop at a floor served by the elevator (Elevators >200' per minute require automatic verbal annunciators)
    - Announcement completed prior to initiation of door opening
- Emergency 2-Way Communications provided and located w/in REACH RANGES and identified by TACTILE characters and symbols

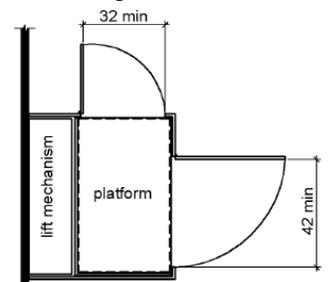
### Platform Lifts

ANSI 410

- Not attendant operated
- Provide unassisted entry and exit from the lift

#### Lift Entry

- Door and Gates – low energy power operated and comply with AUTOMATIC DOORS (Exception: manual-self-closing doors and gates allowed on lifts serving 2 landings max)
- Doors remain open for **20 sec** min
- End door clear opening width **32"** min
- Side door clear opening width **42"** min
- End RAMPS **32" min width**
- Side RAMPS **42" min width**
- FLOOR SURFACES provided
- Clearance between platform sill and edge of any runway landing **1 1/4"** max
- CLEAR FLOOR SPACE provided
- OP operable w/ 1 hand w/ no tight grasping, pinching, or twisting of the wrist



Platform Lift Doors and Gates

## PLUMBING ELEMENTS AND FACILITIES

- Drinking fountains:** (accessible)
- Clear floor space provided and centered on fountain
  - Operable parts (OP) placed w/in reach ranges
  - OP operable w/ 1 hand w/ no tight grasping, pinching, or twisting of the wrist (max **5 lbs force**)
  - Spout outlet height **36"** max above floor for wheelchair, **38-43"** for standing
  - Spout location: **15"** min from vert support, **5"** max from front edge (**3½"** where only parallel approach provided)
  - Water flow: **4"** min in height (standards for angle of flow in ANSI 602.6)

ANSI 602.2



- Toilet & Bathing Rooms:**
- Turning space provided w/in the room
  - Clear floor spaces, clearances at fixtures, and turning spaces may overlap
  - Doors shall not swing into the clear floor space or clearance for any fixture (w/excep's) ANSI 603.2.3
  - Mirrors above lav's, sinks or counters max **40"** bottom edge of reflecting surface to floor (mirrors NOT above lav's, sinks or counters max **35"**)
  - Coat hooks and shelves located w/in one of the Reach Ranges
  - Shelves **40-48"** above floor

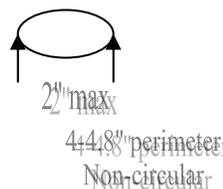
ANSI 603

### W/C and Toilet Compartments:

- W/C located w/ a wall or partition to the rear AND to one side
- W/C Centerline (CL) **16-18"** from side wall or partition
- W/C in Ambulatory (walking) CL **17-19"** from side wall or partition
- Ambulatory compartment min size **60"** deep by **36"** wide
- Clearance around W/C **60"** min meas. perpend. from sidewall and **56"** min meas. from rear wall (**59"** for floor mounted W/C's)
- Req'd W/C Clearance may overlap W/C, grab bars, dispensers, san. napkin receptacles, coat hooks, shelves, accessible routes, clear floor space at other fixtures, and the turning space.  
NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE W/IN THE REQ'D CLEARANCE
- W/C seat height **17-19"** max (seats shall not be sprung to return to a lifted position: open front type IPC 420.3)
- Flush controls (operable parts) placed w/in reach ranges
- Flush controls operable w/ 1 hand w/ no tight grasping, pinching, or twisting of the wrist
- Flush controls located on the open side of W/C (except in Ambulatory Compartments can be located on either side of the W/C)
- Toilet paper dispensers operable w/ 1 hand w/ no tight grasping, pinching, or twisting of the wrist
- Toilet paper dispensers located **7-9"** in front of W/C meas to CL of dispenser
- Toilet paper dispensers outlet **15-48"** above floor and not located behind grab bars, shall not control delivery and shall allow continuous paper flow
- Toilet compartment doorways shall comply with DOORS AND DOORWAYS except:
  - If approach is to latch side of door, clearance between the door side of the stall and any obstruction shall be **42"** min.
- Doors shall be located in front partition or in side wall or partition farthest from the W/C
  - Where located in side wall or partition, door opening shall be **4"** max from front partition
- Doors shall be self-closing
- Door pull shall be placed on both sides of the door near the latch **34-48"** above floor
- Door pull operable w/ 1 hand w/ no tight grasping, pinching, or twisting of the wrist
- Doors shall not swing into the required min area of the compartment

### Grab Bars:

ANSI 609



- Space between grab bar and wall = **1½"**
- Space between grab bar and projecting objects below & at ends = **1½"** (w/ exceptions) 609.3
- Installed in horizontal position **33-36"** above floor to top of gripping surface
- Wall surface around or adjacent to grab bars free from sharp or abrasive elements
- Grab bars shall not rotate w/in their fittings
- Grab bars must withstand **250 lbs** of force

**Location and dimensions: (ALL BARS REQUIRED)**

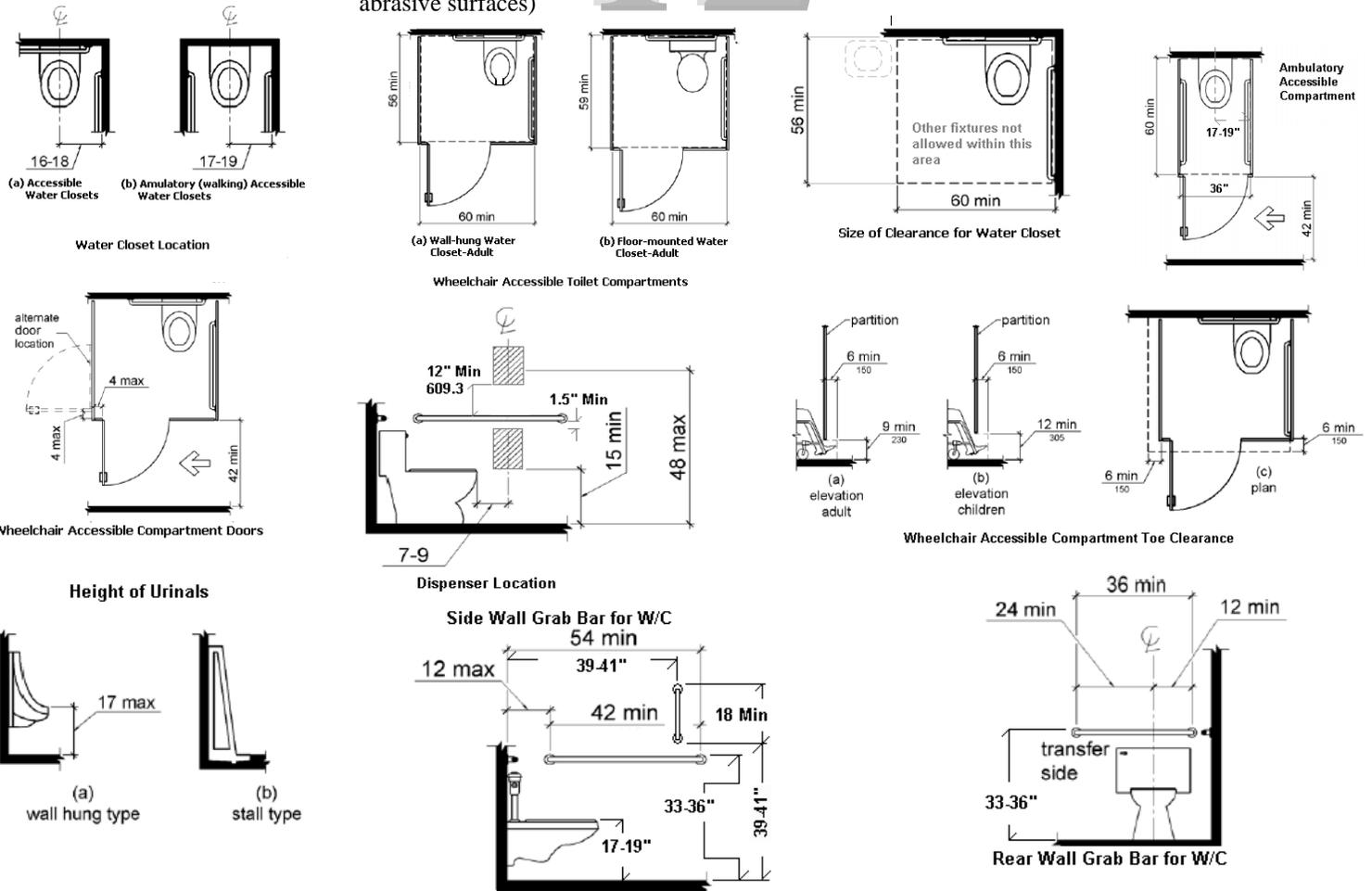
- Sidewall horizontal grab bar** 42" min in length, located 12" max from rear wall and extending 54" min from rear wall
- Sidewall vertical grab bar** 18" min in length, bottom of bar located 39-41" above floor, and with CL of bar located between 39-41" from rear wall
- Rearwall grab bar** 36" min in length and extend from CL of W/C 12" min on the side closest to the wall and 24" min on the transfer side (w/ exceptions)

**Ambulatory compartment requires side wall grab bars on both sides-no rear bar req'd ANSI 605**

**Urinals, Accessible:**

- Shall be of wall or stall type; 17" max rim to floor
- CLEAR FLOOR SPACE provided for forward approach
- Flush controls OP operable w/ 1 hand w/ no tight grasping, pinching, or twisting of the wrist
- CLEAR FLOOR SPACE provided for forward approach (w/ exceptions) ANSI 606
- KNEE AND TOE CLEARANCE provided to at least one bowl (do not include the dip of the overflow)
- Height at front 34" max
- Faucets OP operable w/ 1 hand w/ no tight grasping, pinching, or twisting of the wrist
- Lav's w/ enhanced reach range; faucets and soap disp's max 11" reach depth
- Pipes under lav's and sinks insulated or otherwise configured to protect against contact (no sharp or abrasive surfaces)

**Lavatories and sinks**



**Shower Compartments**

**ANSI 608**

- Transfer Type**
- Clear inside dimension 36" wide x 36" deep meas at centerpoint of opposing sides
  - Entry 36" min wide provided
  - Clearance 48" min long meas. perpendicular to control wall and 36" min deep provided adjacent to the open face of the compartment

- Seat, folding or non-folding, provided
- Controls and Hand shower located on control wall opposite the seat
  - 38-48" max above shower floor
  - Within 15", left or right, of centerline of seat

**GRAB BARS**

- Horizontal provided across the control wall and on the back wall to a point 18" from the control wall.
- Vertical 18" min long provided on the control end wall 3" min to 6" max above the horizontal grab bar and 4" max inward from front edge of shower
- Can be single piece or separate bars or combination thereof.

**Standard Roll-in-Type**

- Clear inside dimension 60" min wide x 30" min deep meas. at the center point of opposing sides.

- Entry **60"** min wide provided
- Clearance **60"** min long adjacent to the **60"** width of the open face of the compartment, and **30"** min in depth provided.
- Lavatory complying w/ LAVATORIES AND SINKS permitted at the end of the clearance opposite the shower compartment side where shower controls are positioned.
- Where shower controls are located on the back wall and no seat is provided, the lavatory permitted at either end of the clearance.
- Seat provided-if extends over the min clear inside dimension (noted above) seat shall be folding
- Controls and Hand shower located **38-48"** max above shower floor
  - With seat, controls and hand shower located on back wall
  - $\leq 27"$  max from the end wall behind seat

**GRAB BARS**

- Provided on 3 walls of showers w/o seats
- Where seat provided, grab bars provided on back wall and on the wall opposite the seat
  - Grab bars shall not be provided above the seat
  - Grab bars 6" max from the adjacent wall

**Alternate Roll-in Type**

- Clear inside dimension of **60" min wide by 36" deep** measured at the center point of opposing sides
- Entry **36" min wide** provided at one end of the **60" width** of the compartment
- Seat wall (**24" min and 36" max long**) provided on the entry side of the compartment
- Seat provided-if extends over the min clear inside dimension (noted above) seat shall be folding
- Controls and Hand shower located **38-48"** max above shower floor
  - Where located on END wall adjacent to seat, controls and hand shower  $\leq 27"$  from seat wall
  - Where located on BACK wall opposite the seat, the controls and hand shower located w/in **15"**, left or right, of centerline of seat
  - EXCEPTION: Fixed shower head w/ controls and shower head located on BACK wall opposite the seat permitted

**GRAB BARS**

- Provided on back wall and the end wall adjacent to the seat
- Grab bars shall not be provided above the seat
- Grab bars **6"** max from the adjacent wall

**Hand Showers**

- Hand shower w/ hose **59"** min long, either fixed or hand held, provided
- Hand shower has a control w/ a non-positive shut-off feature.
- Adjustable-height shower head mounted on vertical bar installed so as to not obstruct the use of grab bars.

**Thresholds**

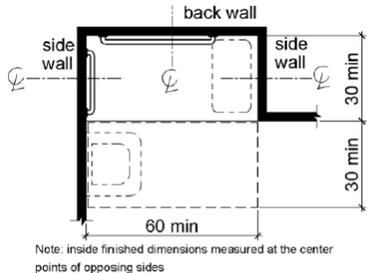
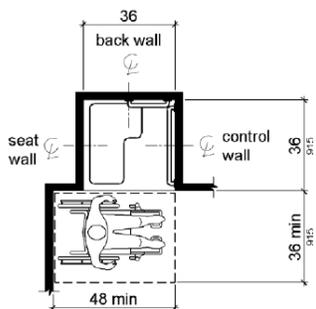
- Roll-in-type shower compartments  $\frac{1}{2}"$  max and per CHANGES IN ELEVATION
- Transfer type shower compartments  $\frac{1}{2}"$  max and beveled, rounded or vertical

**Shower Enclosures**

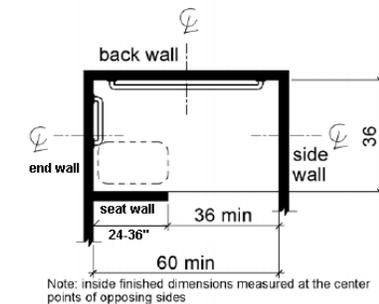
- Shall not obstruct controls or obstruct transfer from wheelchairs onto shower seats

**Water Temperature**

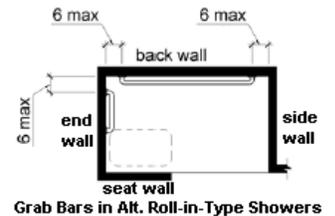
- 120° F** max



Standard Roll-in-Type Shower Compartment Size and Clearance

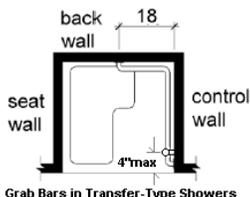


Alternate Roll-in-Type Shower Compartment Size and Clearance

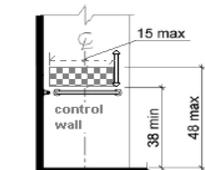


Grab Bars in Alt. Roll-in-Type Showers

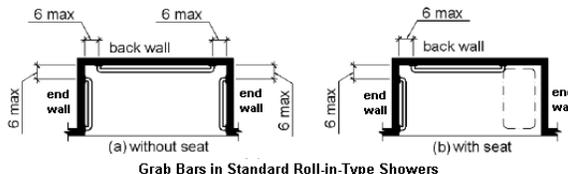
**Transfer-Type Shower Compartment Size and Clearance**



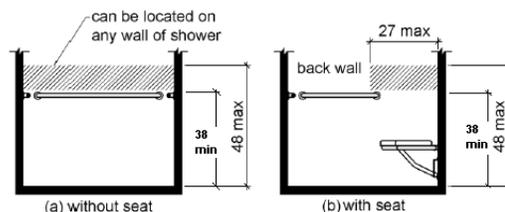
Grab Bars in Transfer-Type Showers



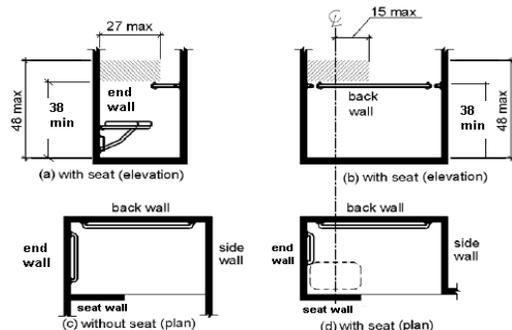
Transfer-Type Shower Controls & Handshower Location



Grab Bars in Standard Roll-in-Type Showers



Standard Roll-in-Type Shower Control and Handshower Location



Alternate Roll-in-Type Shower Control and Handshower Location

