

ADA Standards Part 1

Agenda

- Access onto Sites
- Entrances & Doors
- Spaces Covered
- Operable Parts & Elements

(Chapters 1 – 5)

ADA Standards (2010)

Apply to:

- State/ local gov't facilities
- Places of public accommodation
- Commercial facilities
- Transportation facilities (DOT's 2006 Standards)







Application

Standards fully apply within boundary of the site starting with site arrival points (at least one accessible route to accessible entrance)



Parking Spaces

AR must connect to access aisles at accessible parking spaces



Recommended: connect AR to front of aisle to prevent travel behind parked cars

Curb Ramps (§406)

Landing 36" deep min. required at top of curb ramps in new construction



Curb ramps cannot protrude into access aisle

Curb Ramps

Parallel curb ramps can be used where top landing space is unavailable



Detectable Warnings

<u>Required</u> on curb ramps at:

- Transit facilities (DOT standards 406.8)
- FHWY funded projects
- Public sidewalks (recommended new ROW guidelines will address)

Not required on curb ramps at other facilities

or hazardous vehicular areas

<u>Required</u> on rail station boarding platforms

Entrances (§206.4)

Minimum Number





Entrances

Landings must accommodate door man. clearances



Recommended: locate door swing outside ramp landing

Recommended: locate clearances away from stair openings/ drop-offs

Entrances

Exterior Doors: Automation Recommended





Which rooms and spaces must comply?

New Construction (§201)

<u>All</u> areas must comply except:

- Exempted structures/ spaces
- Employee Work areas
- Partially scoped spaces



General Exceptions (§203)

- construction sites
- areas raised for security, life/fire safety
- raised work areas
- machinery spaces
- spaces accessed by ladders, catwalks, crawl spaces, very narrow passageways
- certain single occupant structures (e.g., toll booths)
- certain sports structures (e.g., referee standards, boxing rings, diving platforms)



Example: Retail Facility



Example: Medical Care Suite



(50%: clustered single user of same type)



Employee Work Areas & Exempt Spaces



Employee Work Areas (§203.9) Minimum requirements:

- "approach, entry, & exit"
- circulation paths (in areas ≥ 1000 sq ft)
- means of egress
- visual alarm connection



Employee Work Areas Access for "approach, entry, & exit"



Employee Work Areas

Less than 1,000 SF



Employee Work Areas 1,000 SF or more in size



Employee Work Areas (§206.2.8)

Common use circulation paths must comply in work areas 1,000 SF or more in size

Exempt:

- exterior areas fully exposed to weather
- portions of paths integral to equipment



Accessible Routes

Must connect to:



Doors, Doorways, and Gates

Doors, Doorways, Gates (§404)



- Clear Width (32" min.)
- Closing Speed
- Opening Force (5 lbf max)
- Vision/ Side Lights
- Compliant Hardware
- Smooth Surface (bottom, push side)
- Thresholds (1/2" max)
- Maneuvering Clearance (both sides unless usable in 1 direction only)

Doors, Doorways, Gates



Limited projections into door clear width

Hardware height: 34" – 48"

Minimum space for positioning/ maneuvering at doors





Maneuvering Clearances Forward Approach 48" min. 60" min. 12" min.* 18" min.

* If door has closer <u>and</u> latch (otherwise 0")

Maneuvering Clearances Required at each accessible door based on approach & swing



Maneuvering clearance measured from the wall - cannot be offset more than 8" from the face of the door



8" max. offset from face of door





Recess > 8": maneuvering clearance for <u>forward</u> <u>approach</u> located 8" max. from face of door

Accessible Routes Between Stories

Multi-Story Facilities (§206.2.3)

At least one accessible route must connect each story and mezzanine unless an exception applies



Exceptions (§206.2.3)

AR between floors ("elevator exception") <u>Private</u> sector facilities only:

OR





less than 3 stories

less than 3,000 sf/ flr)
Exception not allowed for:

- Shopping centers/ malls with 5 or more sales or rental establishments)
- Professional offices of health care providers
- Terminal, depots, or stations used for public transportation
- Government Facilities







Accessible route required to upper story:





containing a health care facility

containing a sales/rental establishment (if facility contains at least 5 total)

 Accessible route <u>not</u> required to upper story without a health care facility or a sales/rental establishment





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If facility qualifies for exception,

- all other provisions in the standards still apply to stories/ mezzanines not served by AR
- elevators provided anyway must fully comply (as standard or LULA elevators)
- •vertical access still may be required by state or local code.

Exception: Gov't Buildings

Exception for <u>public</u> (government) buildings:

- 2 story only <u>AND</u>
- 1 floor has: no public space <u>AND</u> max.
 occupancy of 5



Exceptions: Mezzanines

AR not required to mezzanines in buildings not required to have an elevator





Additional exceptions:

- detention and correctional facilities
- residential facilities
- transient lodging (multi-story units)
- air traffic control tower cab
- qualified historic facilities
- press boxes



Operable Parts & Elements

Operable Parts

Standards apply to *fixed or built-in* elements



Moveable elements/ furnishings not covered by the standards

Operable Parts (§309)

- Operability
- Reach range
- Clear floor space
- AR connection



Reach Ranges (§308)

Side reach range reduced: 48" – 15" (same as forward reach)



Clear Floor Space (§305)

Forward Approach



Required at:

- dining/ work surfaces
- drinking fountains
- lavatories & most sinks

Side Approach



Allowed at other elements (including sales/service counters), specified for: beds & most appliances

Clear Floor Space (§306)

Forward Approach: Objects with knee/toe clearance can overlap a portion of the space (required at some elements, e.g. DFs & lavs)



Toe space (9" high min.): Max. depth 6"



Knee & Toe Space: Max. depth 25"

Clear Floor Space

Knee/toe specifications allow space for plumbing, enclosures, and supports



No object can protrude into min. clearances (other than dip of overflow at lavs & sinks)



Toe space



Beyond toe space, clearance increases from 9" to 27" min. high over 3" span (6:1 slope)



Knee Space (8" deep min. where knee space required)



Required knee & toe space must be at least 17" deep



Additional depth must provide clearance for knees (27" high min.)



Space beyond 25" depth can exist but is not usable

Knee & Toe Space (§306) Knee and Toe Clearances





17" min. depth at DFs, lavs, sinks, dining/work surfaces 25" max. depth (all elements)

Knee/ toe space must equal or exceed the reach depth over obstruction



Reach Range (§308)

Forward reach depth over obstruction limited to 25" (max. height reduced to 44" when depth exceeds 20")



Reach Range

Side reach depth over obstruction limited to 24" (max. height reduced to 46" when depth exceeds 10")

46"

max



Reach Range

Elements in corners can be hard to reach (side approach) Recommendation: locate away from corners where possible or within reach radius



Operability

- 1 hand operation
- no tight grasping, pinching, twisting of wrist
- 5 lbf max.





Technical Guides on the Standards Available on the Board's website



Questions?



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