



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

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2010 ADA Standards for Accessible Design

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ADA Coverage

Private sector (title III)

- Places of Public Accommodation
- Commercial Facilities



Public Sector (title II)

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

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Existing facilities

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

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What Standards Apply to ADA Existing Facilities?

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

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

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Safe Harbor – Existing Facilities

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

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

For more information, contact DOJ @ 800 514-0301

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Elements in 2010 Standards Not Subject to Safe Harbor

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

For more information, contact DOJ @ 800 514-0301

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ABA Coverage

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

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

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Architectural Barriers Act (ABA)

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

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CHAPTER 1

Application and Administration

- Purpose
- Dimensions for Adults and Children
- Equivalent Facilitation
- Conventions
- Referenced Standards
- Definitions

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Conventions

- Scoping percentages/ratios (round up)
 - Unless standards say otherwise
- Figures – informational; text governs
- Dimensions – range added instead of using absolute dimension, where possible

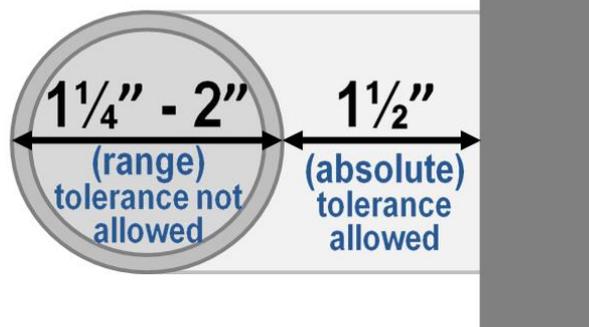
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Construction Tolerances

Grab Bar Diameter and Clearance

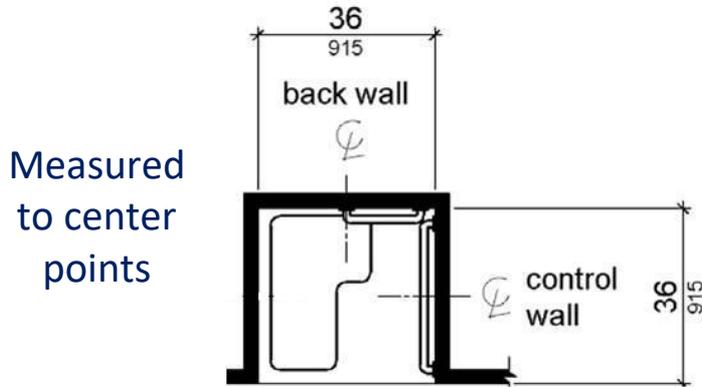


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Construction Tolerances



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Referenced Standards

- powered doors (ANSI/BHMA A156.10 & A156.19)
- elevators and lifts (ASME A17.1 & A18.1)
- egress (IBC)
- alarms (NFPA 72)
- play surfacing & equipment (ASTM standards)

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CHAPTER 2

Scoping Requirements:

- New Construction
- Exceptions
- Additions and Alterations
- Primary Function Areas – Path of Travel
- Qualified Historic Facilities

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Application

What needs to comply?
All areas of newly designed, constructed, and altered facilities, unless otherwise indicated



- No retrofit required (where unaltered)

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General Exceptions

- construction sites
- raised for security, life/fire safety
- spaces accessed by ladders, catwalks, crawl spaces, narrow passageways
- machinery spaces



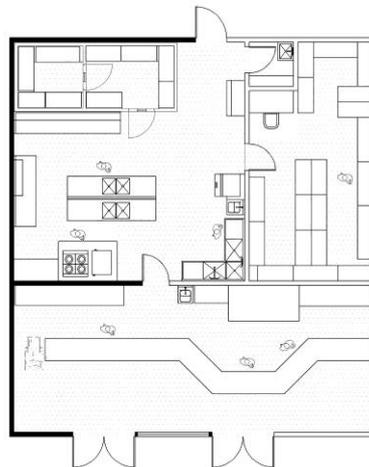
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Work Areas

- ABAAS: Treat as open to the public
- ADA: Approach, enter, exit, circulate, egress, plus alarm wiring



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Alterations

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Alterations (202.3)

- **New definition (106.5)**

What you touch you fix

- **Remodeling, renovation, reconstruction, and could include maintenance actions**
- **Exceptions (e.g., technically infeasible)**



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Alterations (202.3)

“Technical Infeasibility” =
Existing physical/site constraints that prohibit compliance

Example: removing fixture to create accessible stall conflicts with plumbing code

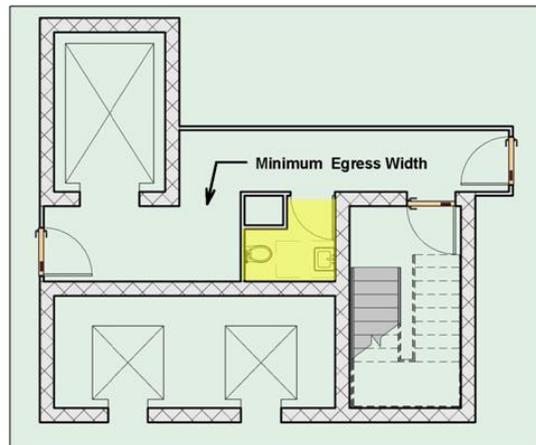
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Alterations (203)

Space limitations and technical infeasibility



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Alterations (202.3)

Technical Infeasibility:

- case-by-case determination
- based on existing constraints/ conditions and scope of work
- compliance required to the *maximum extent feasible*

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Alterations Affecting Primary Function Areas (202.4)

- Additional 20% of alteration cost (CFR)
- Path of travel Improvements:
route, plus restrooms, telephones, drinking fountains, serving the area
- Alteration exceptions can be used
- Not applicable in residential alterations

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Alterations Affecting Primary Function Areas (202.4)

- What are the priorities?
 - accessible route, accessible entrance, at least one accessible uni-sex toilet room, accessible telephone, drinking fountains, and parking spaces
- Small projects - series of costs over 3 years

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Additions (202.2)

- Comply with new construction
- Existing Building Impact
 - Accessible entrance
 - Existing toilet and bathing facilities
 - Public telephones
 - Drinking fountains



No Cost Ceiling

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Historic (202.5)

Qualified Historic Facilities

- No grandfathering
- Threaten or destroy the historic significance
- Exceptions: accessible routes, entrances, and toilet facilities



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Technical Chapters

- 3 – Building Blocks
- 4 – Accessible Routes
- 5 – General Site & Building Elements
- 6 – Plumbing Elements & Facilities
- 7 – Communication Elements & Features
- 8 – Special Rooms, Spaces & Elements
- 9 – Built-in Elements
- 10 – Recreation Facilities

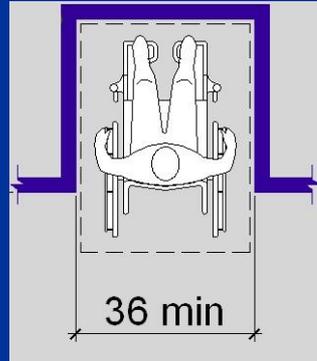
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Building Blocks (Chapter 3)

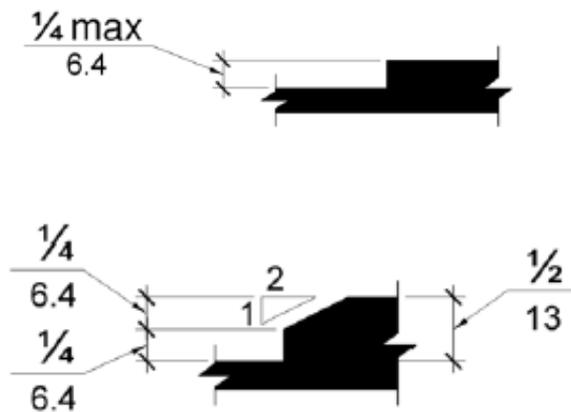
- Floor or Ground Surfaces
- Changes in Level
- Turning Space
- Clear Floor/ Ground Space
- Knee & Toe Clearance
- Protruding Objects
- Reach Ranges
- Operable Parts



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Changes in Level



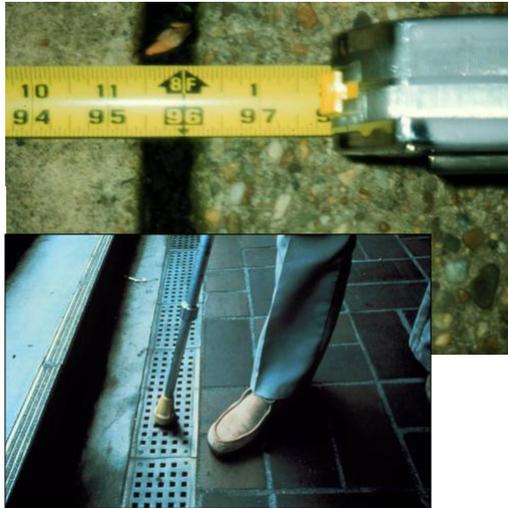
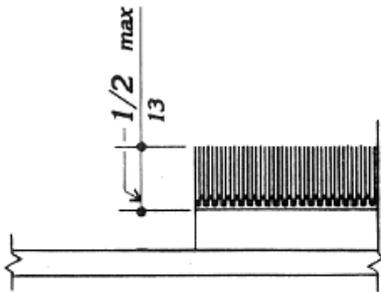
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Ground and Floor Surfaces (302)

- Surface - stable, firm, and slip-resistant
- Carpet
- Openings



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Changes in Level (303)



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Changes in Level (303)



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Ground and Floor Surfaces (302)

Surface - stable, firm, and slip-resistant

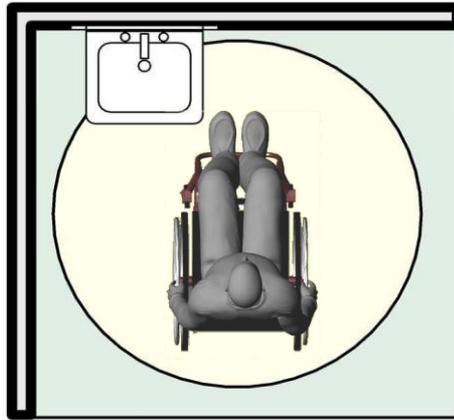
EXCEPTIONS: 1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.



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Turning Space

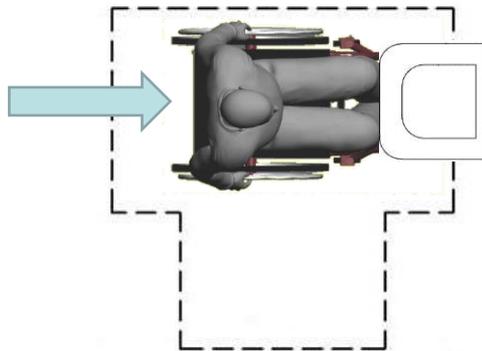


**Permitted overlap clarified
(objects with required knee/ toe clearance)**

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Turning Space

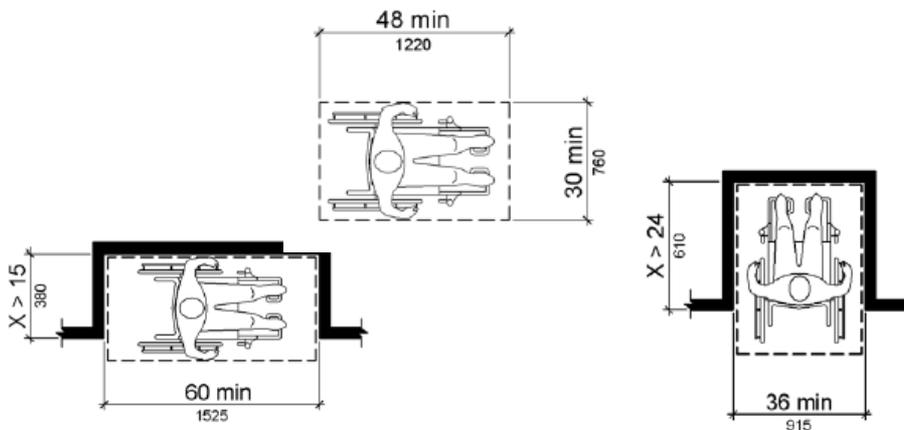


**Permitted overlap limited to 1 arm of
T-shaped space**

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Clear Floor Space

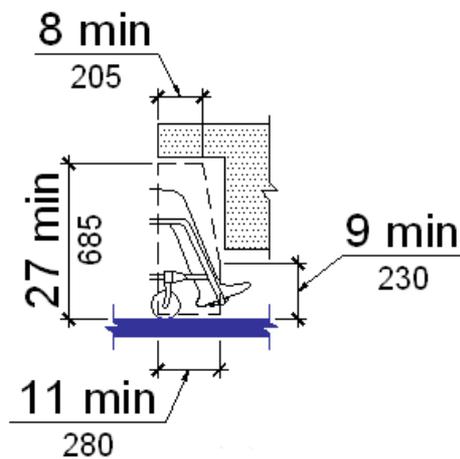


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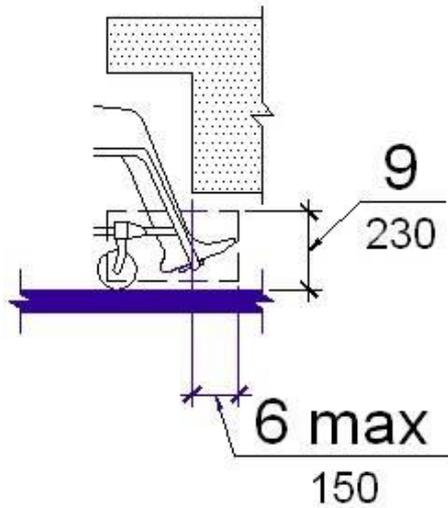
Knee Clearance (306)



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Toe Clearance (306)

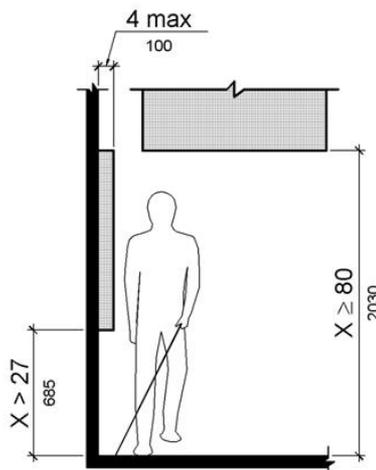


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Protruding Objects

- Applies to all circulation paths (F204)

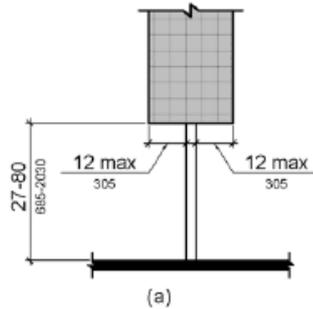


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Protruding Objects (307)



Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches maximum when located 27 inches minimum and 80 inches max.

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Protruding Objects (307)



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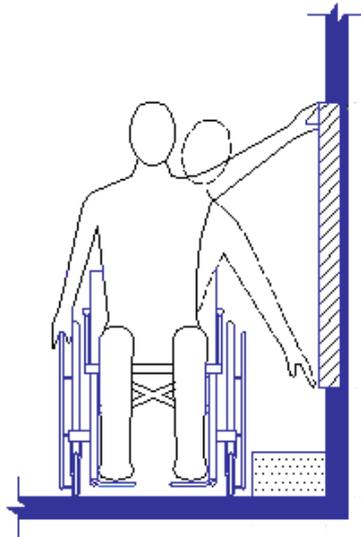
Reach Ranges (308)

Max. Reach – 48”

Min. Reach – 15”

(forward & side)

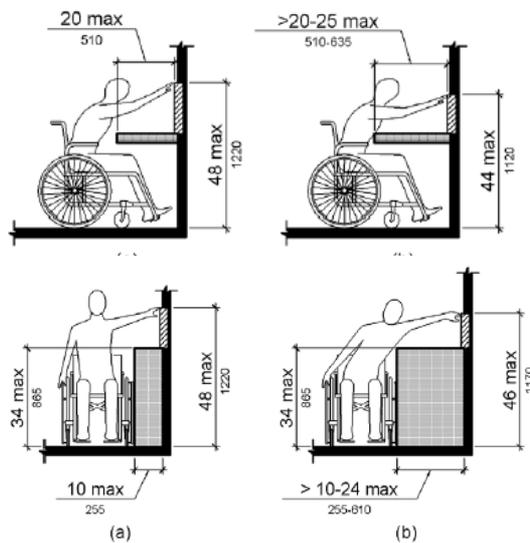
**Includes children’s
advisory**



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Reach Range over Obstruction



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Reach Ranges (308)



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Operable Parts (309)

Height. Operable parts - within one or more of the reach ranges.

Operation. Operable with one hand, shall not require tight grasping, pinching, or twisting of the wrist.

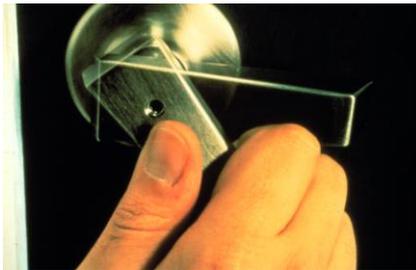
Force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

EXCEPTION: Gas pump nozzles shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) maximum.

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Operable Parts (309)



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Accessible Routes (Chapter 4)

- Accessible Route Components
 - walking surfaces
 - doors, doorways, gates
 - ramps
 - curb ramps
 - elevators
 - limited use/ limited application elevators
 - private residence elevators
 - platform lifts

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Accessible Routes (206)

Where required:

- Site arrival points
- Within sites
- Between stories
- Space and elements
- Specific spaces (e.g., restaurant & cafeteria, performance area, press box)
- Exceptions



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Accessible Routes (206)

Scoping for routes & route elements

- Location
- Entrances
- Doors
- Elevators (all)
- Platform lifts (all)
- Security barriers



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Accessible Routes – “Location”

206.3 (Location)

- If circulation path interior, accessible route interior
- General circulation path

206.2.6 (Performance Areas)

- Direct connection from seating area to performing area, need direct accessible connection

206.8 (Security Barriers)

- EX: visual contact with personal items

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Accessible Routes – Entrances (206.4)

60% of
public
entrances



At least 1 direct
access from
tunnels or
elevated
walkways

At least 1 restricted or
secured entrance

Each direct
access from
parking
structures

Each
tenancy

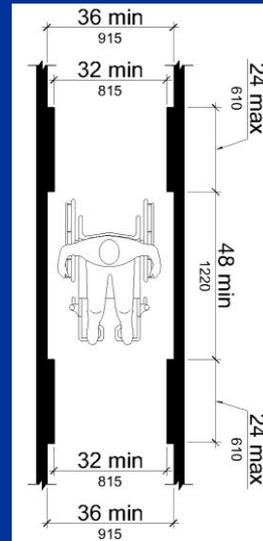
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Walking Surfaces (403)

(Portions of accessible routes that slope no more than 1:20)

- Minimum separation (48") between reduced clear widths
- Handrails along walking surfaces req'd to comply



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Doors (206.5)

At accessible features a minimum of:

- Entrances - 1 door
- Rooms and Spaces - 1 door*
- Transient Lodging – all 32" clear width
- Residential – doors in mobility dwelling units



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Entrances

Automation of Exterior Doors



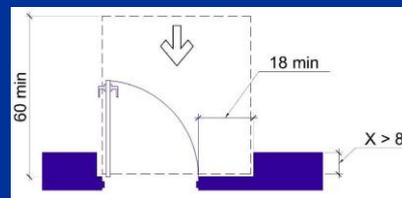
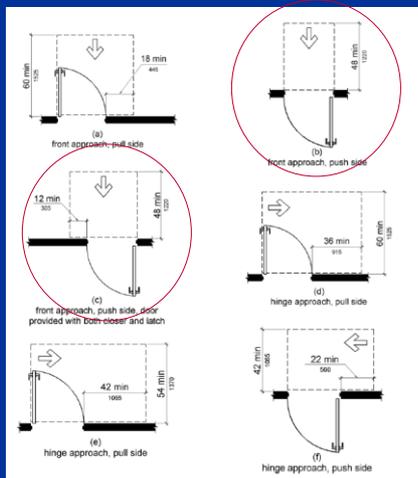
Required:
Federal
Courthouses
(GSA's Public
Building Standards)



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Doors, Doorways, & Gates (404)



Recessed doors
addressed

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Maneuvering Clearances



8" max. offset from face of door

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Maneuvering Clearances



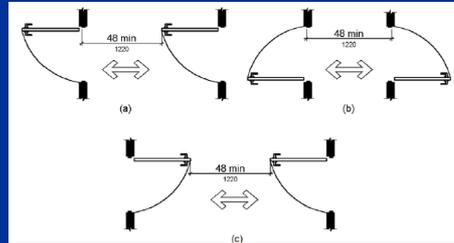
Recess > 8": maneuvering clearance for forward approach located 8" max. from face of door

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Doors, Doorways, & Gates (404)

- Limited projections into clear width
- Doors in series
- Hardware
- Closing speed
- Opening force
- Surface (push side)
- Vision lights



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Automatic & Power Assisted Doors & Gates (404.3)

Industry standards referenced:

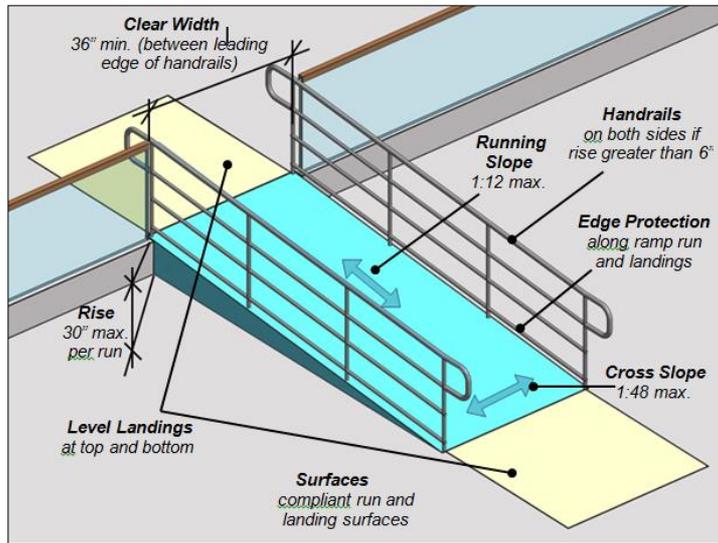
- Full-powered: ANSI/BHMA A156.10 (1999)
- Low-energy and power-assisted: ANSI/BHMA A156.19 (1997 or 2002)

New provisions for break-out opening, clear floor space at controls

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Ramps (§405)

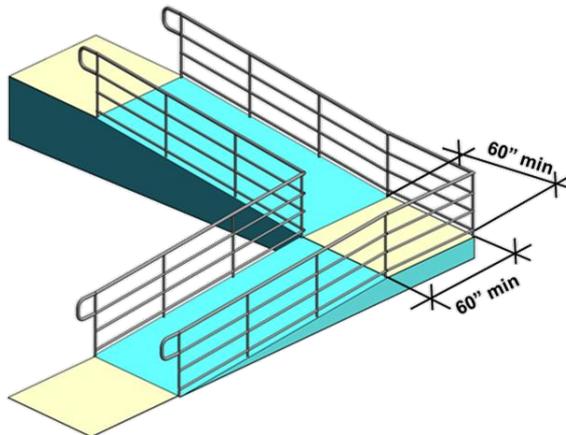


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Ramps: Landings

Intermediate landings 60" x 60" min. required where ramps change direction

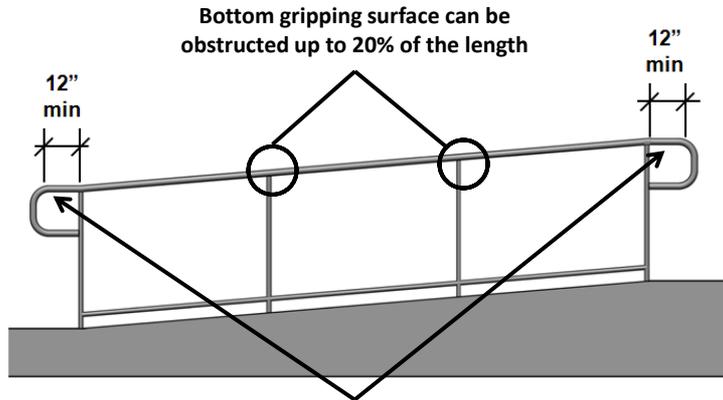


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Ramp Handrails

Must be continuous the full length of run and provide unobstructed gripping surface

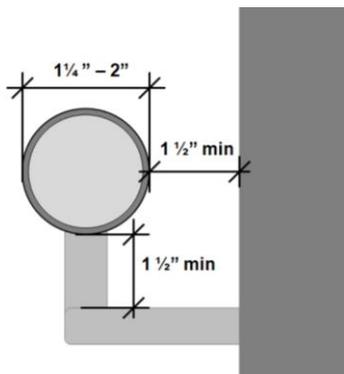


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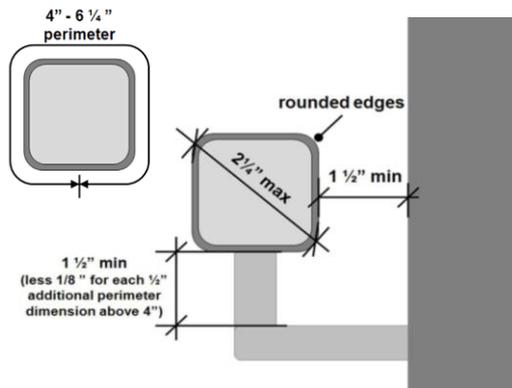
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Ramp Handrails (§505)

Circular Cross Section



Non-Circular Cross Section



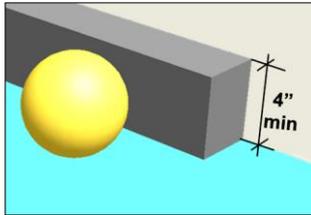
Other profiles that meet these criteria are allowed:



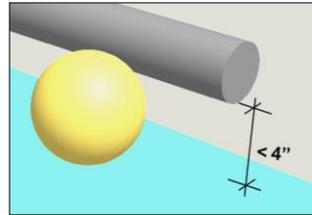
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Ramps: Edge Protection

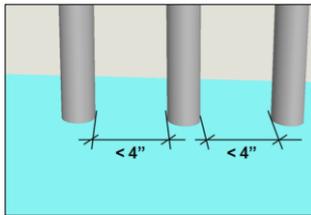
Must prevent passage of 4" diameter sphere



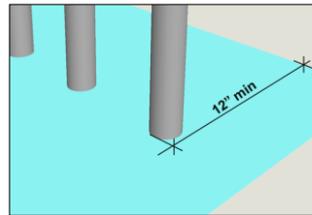
curb



rail or other barrier



vertical pickets



Extended platform

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Handrails along Routes (403.6)

Handrails where provided along walking surfaces other than ramps or stairs also must comply (excluding elevator cars)

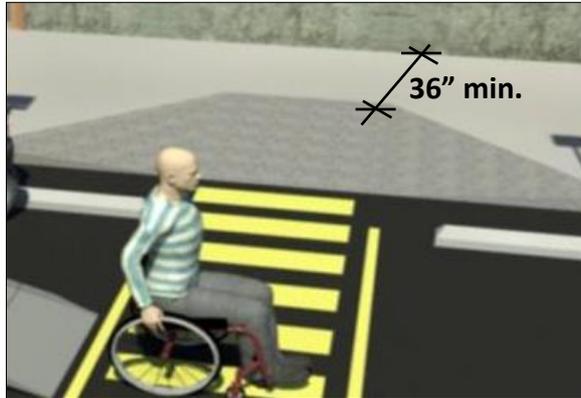


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Curb Ramps (§406)

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



Curb ramps cannot protrude into access aisle

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Curb Ramps



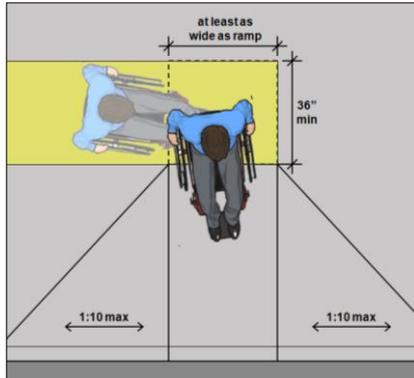
Lack of space at top makes curb ramps difficult to use

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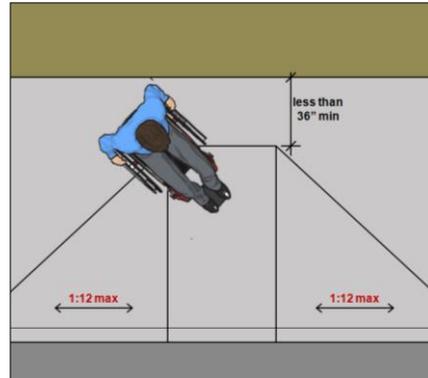
Curb Ramps

New Construction



Top landing: easier maneuvering without travel across flares

Alterations



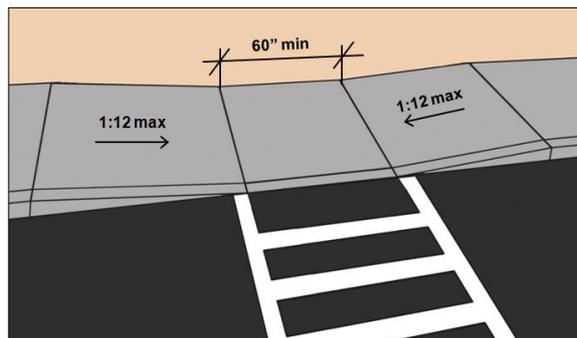
Alterations: if landing space unavailable, side flares = 1:12 max.

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Curb Ramps: Parallel

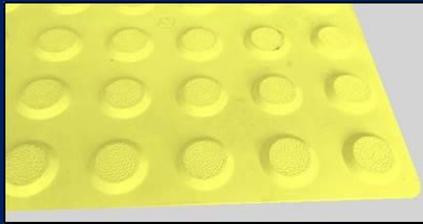
Parallel curb ramps can be used where top landing space is unavailable



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Where are detectable warnings required?



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Detectable Warnings

Required 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

Required on rail station boarding platforms

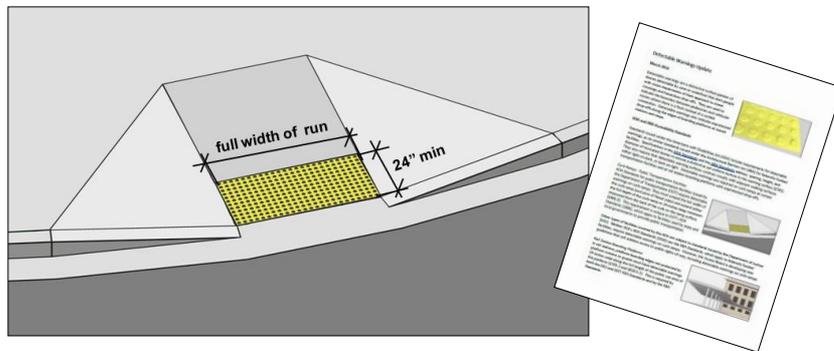


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Detectable Warnings

Revised specifications for location at curb ramps



ROW guidelines will provide further guidance
(e.g., placement at blended transitions)

DW Update on Board's website

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Elevators (407- 409)

- Standard Elevators
- Destination-Oriented Elevators
- Existing Elevators (alterations)
- Limited Use/ Limited Application Elevators
- Private Residence Elevators

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Vertical Access Between Stories (206.2.3)

Multi-story = Vertical Acc.

Exceptions:

- 2 Story - if 1 story not open to public, occupancy of 5 or fewer
- Air traffic control towers (cab and floor below)
- Certain residential facilities



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Elevators - Alterations

206.2.3.1 New Stairs or Escalators

- Stairs and escalators did not exist previously and major structural modifications necessary, elevator required (unless exceptions apply)

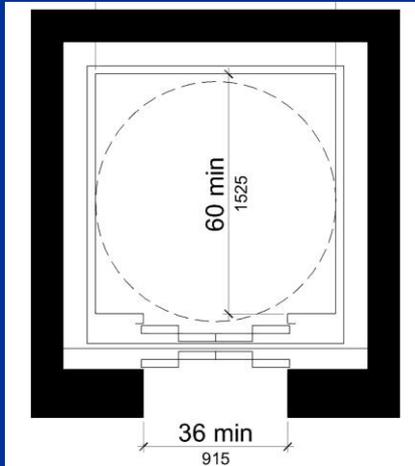
206.6.1 Elevator Alterations

- where one car in existing elevator is altered, all cars programmed to respond to the same hall call must be similarly altered

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Standard Elevator – Size (407.4)



- Car sizes – more alternatives (p175)
- Designs providing turning space within car recognized
- Existing elevators may be smaller

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Platform Lifts (206.7)

- New Const. – restricted to:
 - performance areas and speaker's platforms
 - wheelchair spaces
 - incidental spaces
 - existing site constraints (exterior)
 - other
- Alterations – no restrictions

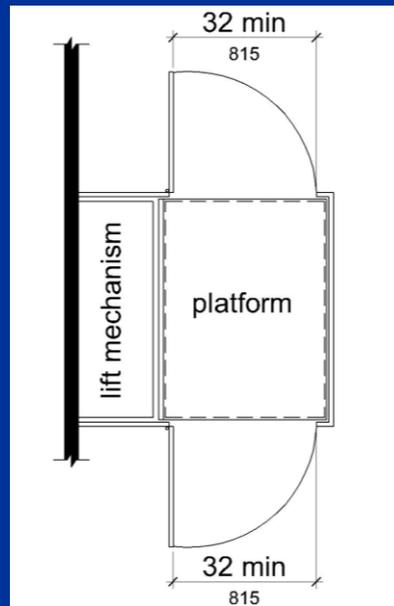


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Platform Lifts (410)

- Industry standard: ASME A18.1 (1999 or 2003)
- Low-energy, powered gates/doors req'd
 - except on 2-stop lifts with opposing gates/doors
- Independent use



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Means of Egress & Areas of Rescue Assistance (207)

- Technical requirements not included
- Scoping (207) references technical requirements in the IBC



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General Site & Building Elements (Chapter 5)

- Parking
- Passenger Loading Zones
- Stairways
- Handrails



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New Construction

Access Required

- **Parking is not required to be provided**
- **Where parking is provided, it must include accessible parking spaces**
- **Excludes commercial vehicle storage, law enforcement vehicles, or vehicle impound parking ***

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Accessible Parking Scoping

- **Where visitor, patron, or employee parking is provided**
- **Calculated on a facility by facility basis ***
- **A facility can be a single space, a parking lot, a parking floor within a building, or a stand alone parking structure**

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Accessible Parking Scoping

Location of Parking Space

- **On shortest accessible route to accessible entrance**
- **On shortest accessible route to entrance to parking facility**
- **Dispersed to multiple accessible entrances**

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Accessible Parking Scoping

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

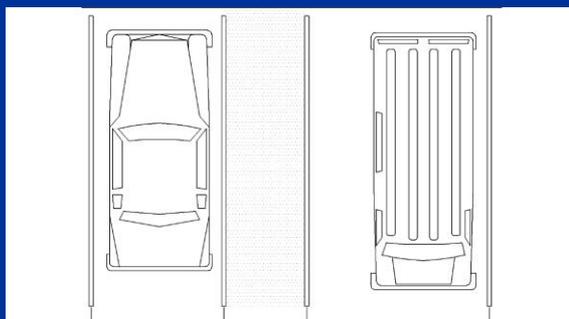
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Van Parking (208.2.4)

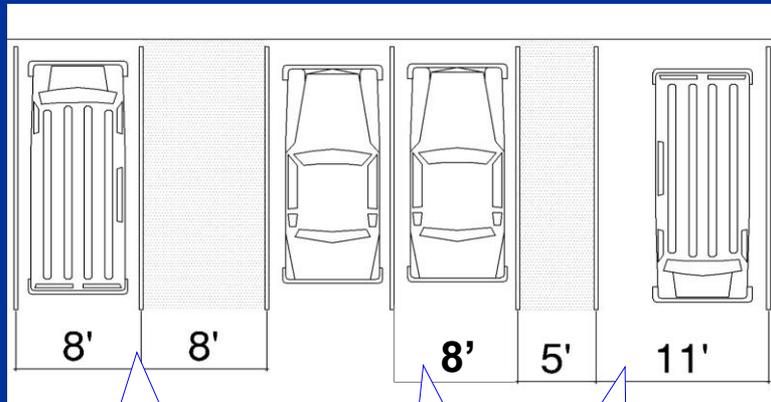


Van Spaces - 1 of every 6 accessible spaces
(instead of 1 of 8)

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Van Spaces (502)



EX: Van space

Car space

Van space

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Parking (502)

Access Aisle

- Marking
- Location (angled vans spaces)

Signage

- Height (60" min.)
- Van Accessible



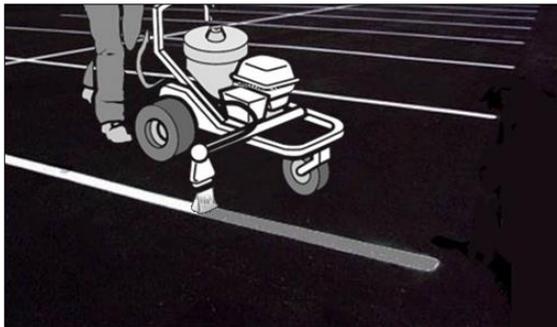
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Alterations

Example: Parking Lot

Repainting existing markings in place, filling potholes = maintenance (not an alteration)



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Electric Vehicle Charging Stations



- **The Standards do not include specific provisions for electric vehicle (EV) charging stations.**
- **Advisable to address access to EV charging stations so that they are usable by people with disabilities.**
- **If provided, accessible spaces at EV charging stations cannot count toward the minimum number of accessible car and van parking spaces required in a parking facility.**

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Passenger Loading Zones



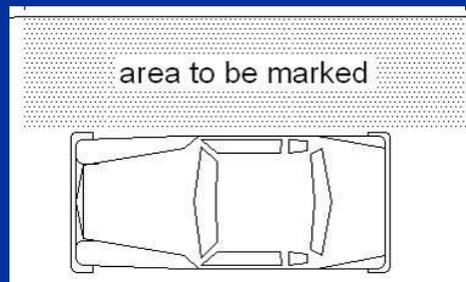
At least 1 for every 100 linear ft. of loading zone space provided

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Passenger Loading Zones (503)

- Aisles - same level as pull-up space
- Aisles to be marked
- No level changes in space or aisle



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Stairways (210)



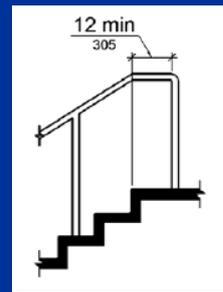
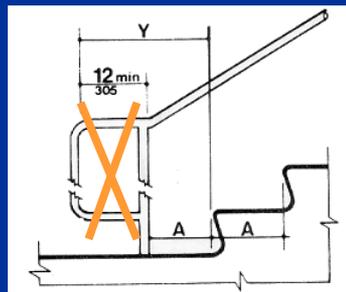
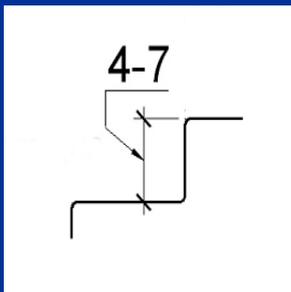
- All stairs that are part of a means of egress must comply
- Exceptions for alterations & stairs in assembly areas

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Stairways (504)

- Riser height (ANSI A117.1)
- Handrail extension change (505.10)



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Technical Assistance

- Publications and guides
- On-line guide
- Newsletter
- Webinar series



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Where to direct questions



U.S. Department of Justice

- Implementing regulation and additional requirements
- Requirements for existing facilities – title II & III

(800) 514-0301 (voice)
(800) 514-0383 (TTY)
www.ada.gov



U.S. Access Board

- 2010 Accessibility Standards for new construction and alterations

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QUESTIONS



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Additional Sessions are scheduled for the
ADAOnline2020 Program through
October 2020

Next Session:

2010 ADA Standards Part 2
October 8th

View/register on-line at: www.adaonline2020.org

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