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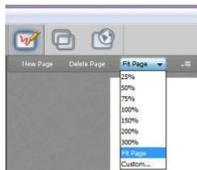
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Accessible Entrances, Doors, and Gates



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Today's Presenters

U.S. Access Board



Scott Windley



Bill Botten

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Session Agenda

- Where required
- Manual Doors
- Automated Doors
- Questions

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ADA and ABA Standards

ADA :

- DOJ's standards (2010)
- DOT's standards (2006) for transit facilities



ABA (Federal Sector):

- ABA standards updated (GSA, DOD, USPS)
- Update of HUD standards still pending (UFAS still applies to housing covered by ABA)

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Door & Entrance Scoping

Section 206 (Accessible Routes)

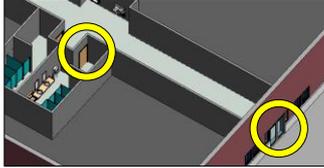


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Doors Scoping (206.5)

Covers doors providing user passage at:

- required accessible entrances
- accessible rooms/spaces (at least 1)
- along accessible routes & MOE



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Doors Scoping (206.5)

Additional requirements:

- **Transient Lodging:**
all guest rooms must have doors meeting 32" clear width
- **Dwelling Units:**
all doors in accessible units must comply



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Entrances (206.4)

At least 60% of public entrances must comply

Public entrance = any entrance that is not a service or restricted entrance

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Entrances

In addition to the 60% requirement:

- direct access from parking structures (all)
- direct access from tunnels or elevated walkways
- different fixed routes in transit facilities
- entrances to each tenant space
- restricted entrance (at least 1)
- secured entrance (at least 1)



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Signs

Labels / directional signs (with ISA) required at entrances (when not all are accessible)



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Secured Entrances (404.1)

Doors operated only by security personnel exempt from provisions for:

- Hardware (404.2.7)
- Closing speed (404.2.8)
- Opening force (404.2.9)



(automated doors subject to clear width & threshold requirements only)

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Rooms & Spaces

Work Areas (203.9):
Entry doors/ gates must comply
(most other requirements do not
apply in the ADA standards)



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Doors Covered (404)

- Manual: swing, sliding, folding (404.2)
- Automated: full powered and low energy/
power assisted (404.3)
- Gates also covered by 404

Revolving doors (including
automated) can't serve as
accessible door



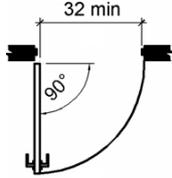
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Manual Doors

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Clear Width (404.2.3)

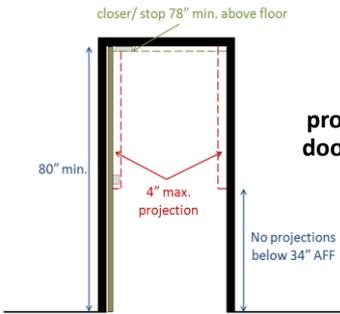
32" min. measured from stop to face of door open 90°



alterations: 5/8" max. projection into latch side stop allowed

25

Clear Width

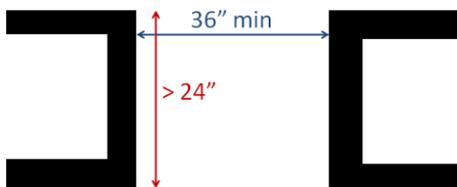


Limited projections into door clear width

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Clear Width

36" min. clear width required if opening more than 24" deep



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Maneuvering Clearances (404.2.4)

Minimum space for positioning/
maneuvering at doors



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Maneuvering Clearances

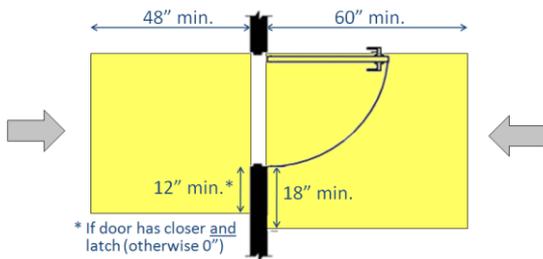
Accommodates all types of mobility aids



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Maneuvering Clearances

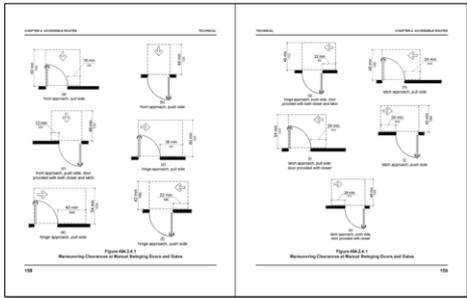
Forward Approach



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Maneuvering Clearances

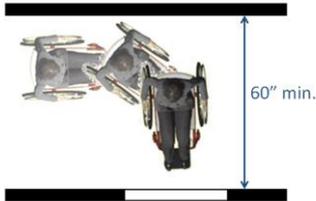
Forward, latch-side, hinge-side approaches



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Maneuvering Clearances

If space is at least 60" deep, a forward approach can be provided (instead of side)



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Maneuvering Clearances

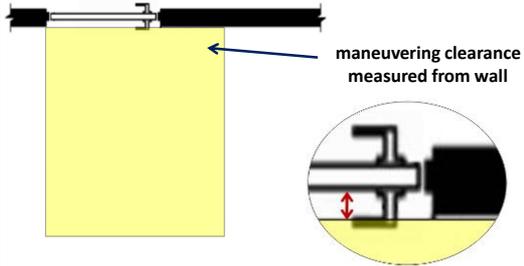


clearance applies to full height (80" min.)

No changes in level (other than thresholds)

33

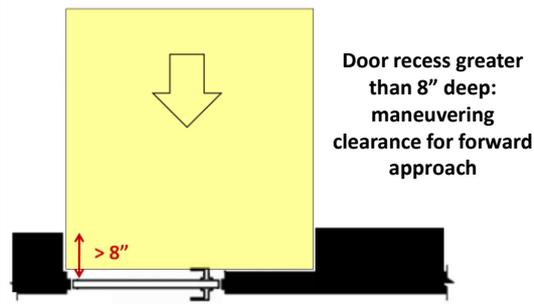
Maneuvering Clearances



Max. offset from face of door: 8"

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Maneuvering Clearances



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Maneuvering Clearances



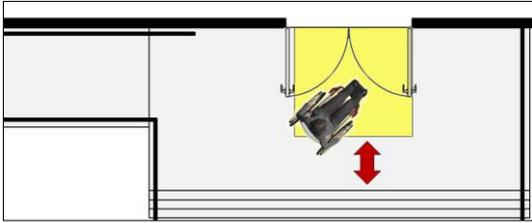
Recess: 8" max.

Recess: greater than 8"

36

Maneuvering Clearances

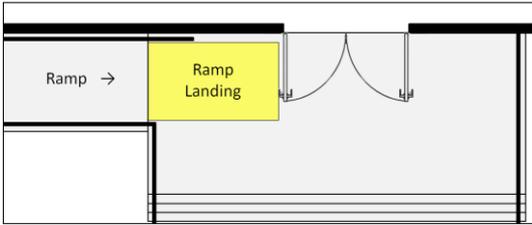
Landings must accommodate maneuvering clearance
Tip: Locate maneuvering clearance away from stair openings/ drop-offs



37

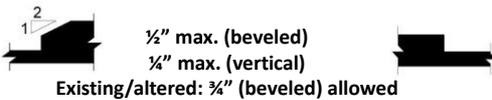
Landings

Maneuvering clearance and ramp landings can overlap
Tip: Locate doors outside ramp landings to prevent hazards



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Thresholds (404.2.5)



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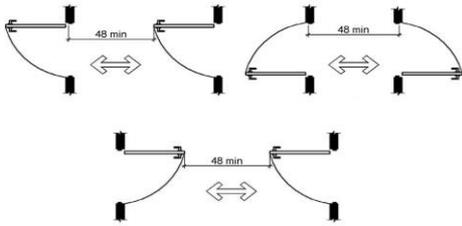
Doors in Series (404.2.6)

48" min. separation between swing of doors



Doors in Series

Requirement applies in all cases same direction, in-swinging, out-swinging)



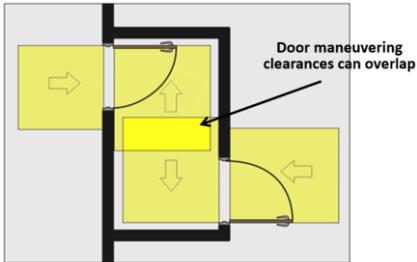
Vestibules

Tip: Wheelchair space beyond door swing is advisable in other types of vestibules



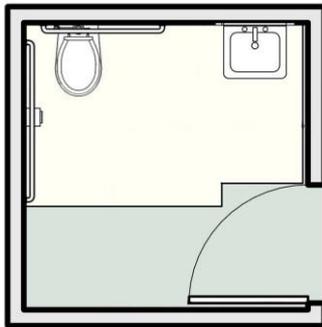
Vestibules

Required at each accessible door based on approach & swing



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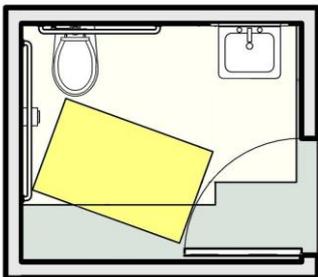
Toilet/Bath/Dressing Rooms



Door cannot swing into toilet/bathroom fixture clearances or into dressing rooms unless ...

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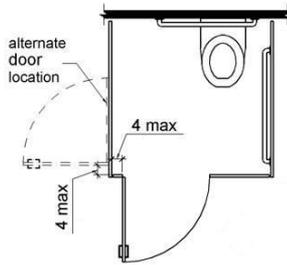
Toilet/Bath/Dressing Rooms



... unobstructed wheelchair space (30"x 48") is provided beyond door swing

45

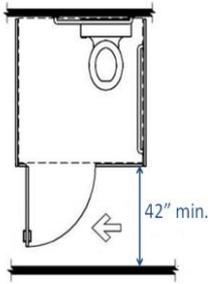
Toilet Stall Doors (604.8)



- Self-closing
- Door pull (both sides)
- Can't swing into minimum stall area
- Location

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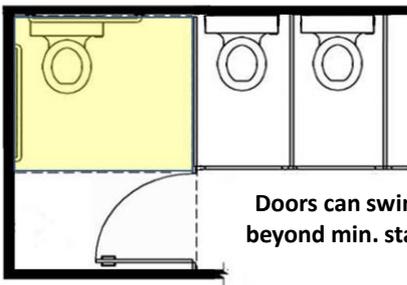
Toilet Stall Doors



Must meet man. clearances
(42" min. clearance allowed
for latch side approaches)

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Toilet Stall Doors



Doors can swing into stall
beyond min. stall clearance

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Hardware (404.2.7)

- 1 hand operation
- No tight grasping, pinching, twisting of wrist
- 5 lbf max. force
- Height: 34" – 48" AFF (exception for certain existing doors and gates at pools)



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Hardware

Levers, pulls, and other types comply
Not compliant: rounded knobs



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Hardware

Closed fist/ loose grip operability = good
(but not required)



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Gate Hardware (404.2.7 EX. 2)

Access gates in barrier walls and fences protecting pools, spas, and hot tubs

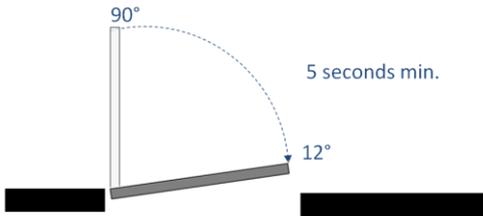


Operable parts of the release of latch on self-latching devices at 54 inches maximum

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Closing Speed (404.2.8)

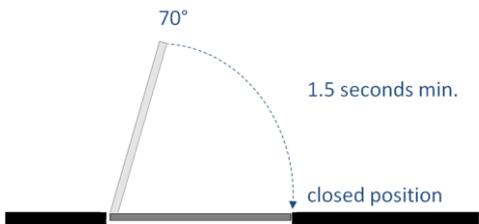
Door Closers



53

Closing Speed

Spring Hinges



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Opening Force (404.2.9)

5 lbf max.

Except:

- Fire Doors (min. required by code)
- Exterior Hinged Doors (min. feasible)

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Opening Force

- Applies to continuous opening force

Does not apply to:

- Initial force to overcome inertia of door
- Force to retract bolts/ disengage devices holding door in closed position

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Opening Force

Exterior Doors: Automation Recommended



Required at GSA buildings
(Public Building Service Standards)

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Door Surface (404.2.10)

Bottom 10" must be smooth (full width of door)



Kick plates can be used to protect door

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Bottom Surface

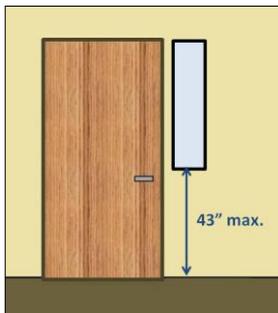
Exceptions:

- Sliding doors
- Some tempered glass doors without stiles
- Existing doors
- Doors and gates not extending to 10" AFF



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Vision Lights (404.2.11)



If provided, vision lights: 43" max. AFF
(not required if bottom edge is above 66")

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Automated Doors

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Automatic and Power-Assisted Doors (404.3)

- Thresholds (same as manual doors)
- Doors in series (same as manual doors)
- Clear width
- Break Out Opening
- Controls
- Maneuvering Clearance
- ANSI/BHMA Standards (for safety and operation)



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Clear Width (404.3.1)

- 32" minimum in power-on and power-off mode
- If both leaves open when activated the clear width is based on the opening provided by all leaves in the open position



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Break Out Opening



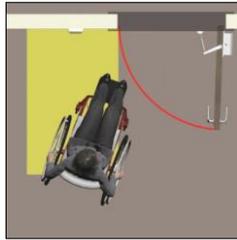
Doors on MOE:
32" min. clear break out
opening (emergency
mode)

Unless:

- Door has standby power
or
- Compliant manual door
serves the same MOE

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Controls



Wheelchair space at controls must be outside
the door swing

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Controls



Control on adjacent wall/post can
provide easier access

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Maneuvering Clearance

Compliance with 404.2.4
required for:

- Power-assisted doors
- Automatic doors on accessible MOE (except those with standby power or that stay open in power-off mode)

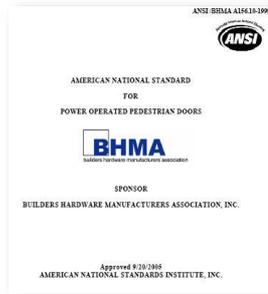


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Two BHMA/ANSI Standards



ANSI/BHMA A156.19



ANSI/BHMA A156.10

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ANSI/BHMA

A156.10 Full-Powered Automatic Doors

- Activated by mats or overhead sensors
- Do not require actuation
- Often provided at retail facilities, airports etc.



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ANSI/BHMA

A156.19 Low-Energy Power-Assisted Doors

- Covers doors that function more like a standard hinged door but with a power closer/opener option
- Require actuation (e.g., push plate)



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ANSI/BHMA

Both referenced standards address:

- Sensors or actuating devices
- How fast the door opens
- Safety features
- Sign requirements
- General performance



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Questions?

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



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AIA Course Number: GL20190307

Date: March 7, 2019

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