Welcome to the AccessibilityOnline Webinar Series

A collaborative program between the National Network of ADA Centers and the US Access Board

The Session is Scheduled to begin at 2:30pm Eastern Time
We will be testing sound quality periodically

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Presenters

U.S. Access Board

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Accessible Doors

Session Agenda

• Where required
• Manual Doors
• Automated Doors
• Questions

New ADA Standards

DOJ’s 2010 standards
(mandatory March 15, 2012)

Based on the Board’s ADA-ABA Guidelines (2004)
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)

Door & Entrance Scoping
Section 206 (Accessible Routes)
Doors Scoping (206.5)

• Covers doors providing user passage at:
  • required accessible entrances
  • accessible rooms/spaces (at least 1)
  • along accessible routes & MOE

Additional requirements:
• Transient Lodging: all guest rooms must have doors meeting 32” clear width
• Dwelling Units: all doors in accessible units must comply
Entrances (206.4)

• At least 60% of public entrances must comply

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

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)
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)

Rooms & Spaces

• All rooms/spaces must comply in new construction unless exempted/partially scoped
• Exceptions:
  • areas raised for security, life/fire safety
  • machinery/equipment spaces
  • certain single occupant structures
  • other spaces listed in 203 (General Exceptions)
Rooms & Spaces

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

Stairwells

• Doors on accessible route/ MOE must comply
• (e.g., route to area of refuge or emergency exit in stairwell)
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

Manual Doors
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

Clear Width

32” min. clear width: sliding and folding doors
Clear Width

Limited projections into door clear width

Clear Width

36” min. clear width required if opening more than 24” deep
Maneuvering Clearances (404.2.4)

• Minimum space for positioning/maneuvering at doors

Maneuvering Clearances

• Accommodates all types of mobility aids
Maneuvering Clearances

Forward Approach

- 48” min.
- 60” min.
- 12” min.*
- 18” min.

* If door has closer and latch (otherwise 0”)

- Forward, latch-side, hinge-side approaches
Maneuvering Clearances

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

Maneuvering Clearances

- clearance applies to full height (80” min.)
- No changes in level (other than thresholds)
Maneuvering Clearances

- maneuvering clearance measured from wall

Max. offset from face of door: 8”

Maneuvering Clearances

Door recess greater than 8” deep: maneuvering clearance for forward approach

> 8”
Maneuvering Clearances

Recess: 8” max.  
Recess: greater than 8”

Maneuvering Clearances

Hospital Patient Rooms:  
latch side clearance not required at entry doors  
(404.2.4, exception)
Maneuvering Clearances

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

Landings

Maneuvering clearance and ramp landings can overlap
*Tip:* Locate doors outside ramp landings to prevent hazards
Thresholds (404.2.5)

\[ \frac{1}{2}'' \text{ max. (beveled)} \]
\[ \frac{1}{4}'' \text{ max. (vertical)} \]
Existing/altered: \( \frac{3}{4}'' \text{ (beveled)} \) allowed

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
Door maneuvering clearances can overlap

Toilet/Bath/Dressing Rooms
Door cannot swing into toilet/bathroom fixture clearances or into dressing rooms unless ...
Toilet/Bath/Dressing Rooms

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

Toilet Stall Doors (604.8)

- Self-closing
- Door pull (both sides)
- Can’t swing into minimum stall area
- Location
Toilet Stall Doors

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

Toilet Stall Doors

Doors can swing into stall
beyond min. stall clearance
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)

Hardware
Levers, pulls, and other types comply
Not compliant: rounded knobs
Hardware
Closed fist/ loose grip operability = good
(but not required)

Closing Speed (404.2.8)
Door Closers

90°
5 seconds min.
12°
Closing Speed

Spring Hinges

70°

1.5 seconds min.

closed position

Opening Force (404.2.9)

5 lbf max.

Except:

• Fire Doors (min. required by code)
• Exterior Hinged Doors (min. feasible)
Opening Force

Exterior Doors: Automation Recommended

Required at GSA buildings (Public Building Service Standards)

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
Opening Force

Available devices for measuring opening force:

- Door gauges
- Tensionometers
- Fish scale

Door Surface (404.2.10)

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

Kick plates can be used to protect door
Bottom Surface

Exceptions:
• Sliding doors
• Some tempered glass doors without stiles
• Existing doors
• Doors not extending to 10” AFF

Vision Lights (404.2.11)

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

Signs

Labels / directional signs (with ISA) required at entrances (when not all are accessible)
2-Way Communication Systems

Entrances:
Communication devices must have both visual and audible signals

Notification Devices

*Communication accessible* units only

Transient Lodging (806.3.2):
- Visible notification of door knock/bell

Residential Dwelling Units (809.5.5):
- Hard-wired doorbell – audible & visible
- Means to identify visitors without opening door (e.g., window/ vision panel, peephole, door scope, etc.)
Peepholes

*Tip:* Prisms/ lenses (door scopes) available that provide wide-angle view and are usable from standing and seated positions

(standards do not address peephole height)

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Security Barriers (206.8)

Alternative route permitted at security screen devices
Security Barriers

Security barriers (e.g., bollards) cannot obstruct accessible route to entrances
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)

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
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

Controls

Wheelchair space at controls must be outside the door swing
Controls

Control on adjacent wall/post can provide easier access

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)
Two BHMA/ANSI Standards

ANSI/BHMA A156.19

ANSI/BHMA A156.10

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.
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)

ANSI/BHMA

Both referenced standards address:

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

You may type and submit questions in the Chat Area Text Box or press Control-M and enter text in the Chat Area.

U.S. Access Board

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Thank you for participating in today’s webinar

Next scheduled session:
Accessible Hospitals and Other Health Care Facilities (July 7th)

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