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

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
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”)

Maneuvering Clearances

- 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)

½” max. (beveled)
¼” max. (vertical)
Existing/altered: ¾” (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

1.5 seconds min.

70°

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)

Security Barriers (206.8)

Alternative route permitted at security screen devices
Security Barriers

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

Automated Doors
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

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 7<sup>th</sup>)

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