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

Scott Windley  Dave Yanchulis
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)

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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

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
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)

60” min.

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”

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°

12°

5 seconds min.
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**

*Ttip*: 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)

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

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Accessible Hospitals and Other Health Care Facilities (July 7th)
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