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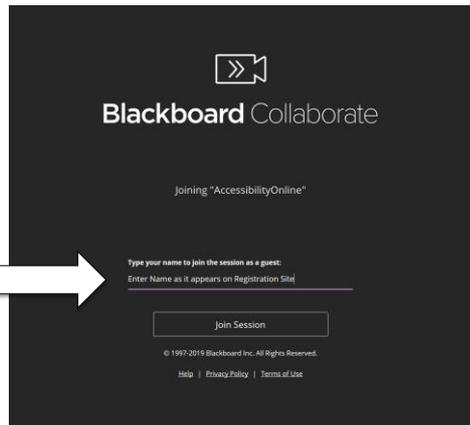
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5



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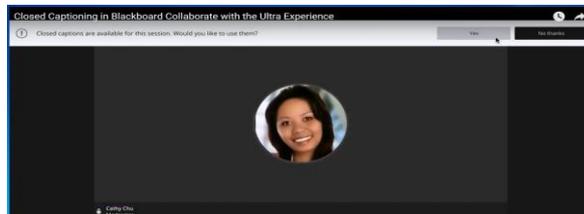
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6



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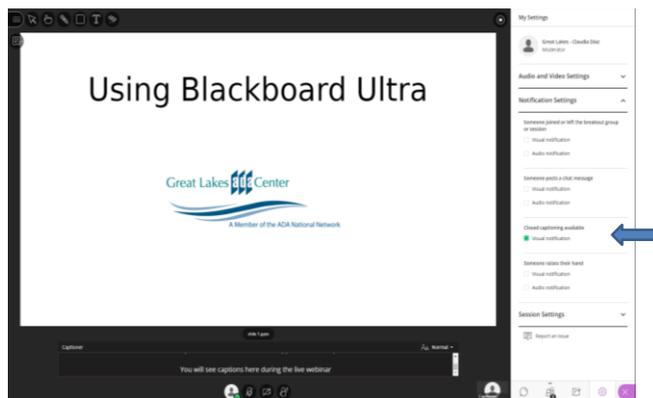
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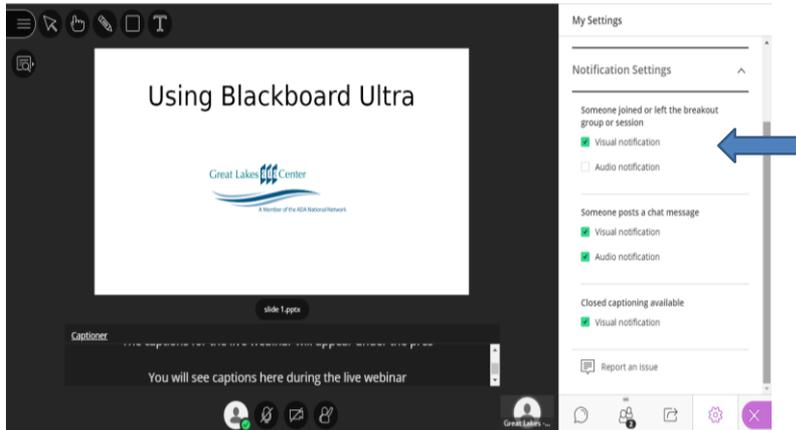


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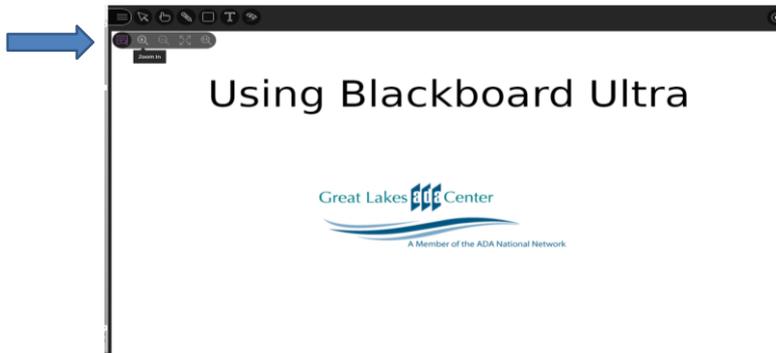
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10



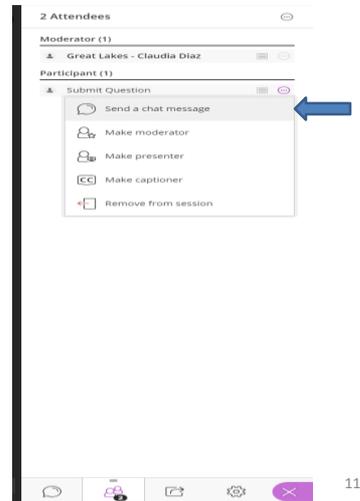
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12

**Using the ADA and ABA
Standards:
Chapter 1: Application and
Administration**

13

**Access Board Presenters
Paul Beatty
&
Bill Botten**

14

Agenda

- Purpose of the Standards
- Dimensions for Adults and Children
- Equivalent Facilitation (ADA only)
- Modifications and Waivers (ABA only)
- Conventions
- Referenced Standards
- Definitions

15

Purpose §101 & §F101

16

Americans with Disabilities Act (ADA)

- Civil rights law, not based on federal funding
- Scope: places of public accommodation, commercial facilities, state/local gov't facilities
- ADA Standards (based on Board guidelines)



17

ADA Standards



Issued by:
Dept. of Justice (2010)

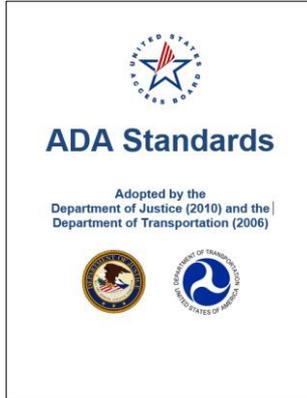


Dept. of Transportation: public transit facilities (2006)

18

Current ADA Standards

Apply to all facilities covered by ADA (some differences between DOJ & DOT versions)



available on Board's website

19

Current ADA Standards

Combined edition on Board's site notes differences

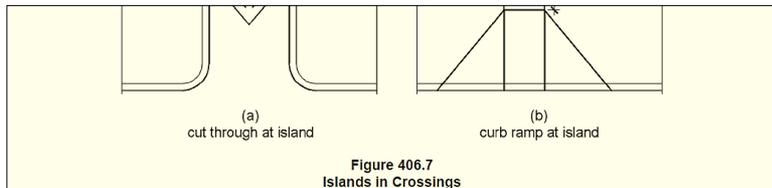


Figure 406.7
Islands in Crossings

Note to Reader: The Department of Transportation's ADA standards require detectable warnings on curb ramps:

406.8 Detectable Warnings. A curb ramp shall have a detectable warning complying with 705. The detectable warning shall extend the full width of the curb ramp (exclusive of flared sides) and shall extend either the full depth of the curb ramp or 24 inches (610 mm) deep minimum measured from the back of the curb on the ramp surface.

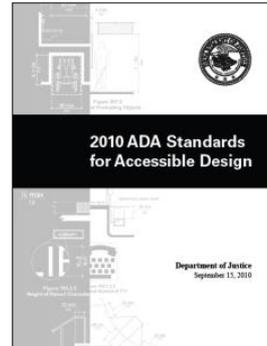
407 Elevators

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

20

Purpose (§101)

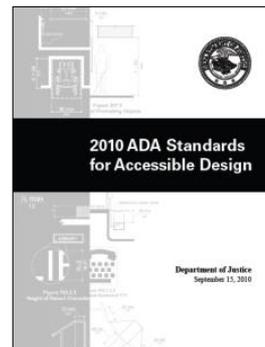
- General (101.1)
- Contains scoping and technical requirements for accessibility to sites, facilities, buildings, and elements by individuals with disabilities.
- The requirements are to be applied during the design, construction, additions to, and alteration of sites, facilities, buildings, and elements to the extent required by regulations issued by Federal agencies under the Americans with Disabilities Act of 1990 (ADA).



21

Effect on Removal of Barriers in Existing Facilities (§101.2)

- Does not address existing facilities unless altered at the discretion of a covered entity.
- The Department of Justice has authority over existing facilities that are subject to the requirement for removal of barriers under title III of the ADA.
- Any determination that this document applies to existing facilities subject to the barrier removal requirement is solely within the discretion of the Department of Justice and is effective only to the extent required by regulations issued by the Department of Justice.



22

Architectural Barriers Act (ABA)

- First federal law to address access (1968)
- Scope: facilities built/ altered with federal funds or leased by federal gov't
- Enforced by the Board
- ABA Standards (based on Board guidelines)



23

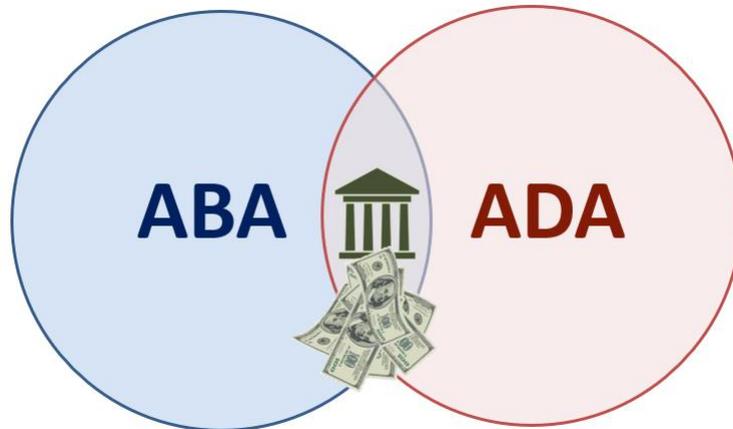
ABA & ADA Standards

In last guideline update, Board harmonized ABA & ADA requirements – reflected in the standards



24

ABA & ADA Overlap



Facilities subject to the ADA that are federally funded may be covered by the ABA as well

25

ABA Standards

Issued by:

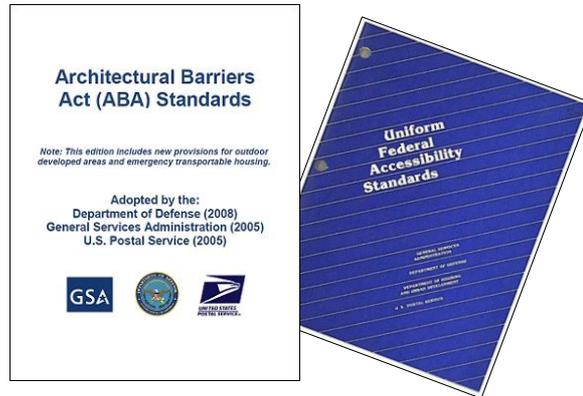
- US Postal Service: postal facilities (2005)
- Dept. of Defense: military facilities (2008)
- Dept. of Housing & Urban Development: residential facilities (1984 - UFAS)
- GSA: all other facilities (2006)



26

Current ABA Standards

New version applies to all facilities except residential covered by HUD (UFAS)



available on Board's website

27

ABA CHAPTER 1

Application and Administration

- F101 – Purpose
- F102 – Dimensions for Adults and Children
- F103 – Modification and Waivers
- F104 – Conventions
- F105 – Referenced Standards
- F106 – Definitions

28

Purpose (§F101)

- General (F101)
- This document contains scoping and technical requirements for accessibility to sites, facilities, buildings, and elements by individuals with disabilities.
- The requirements are to be applied during the design, construction, addition to, alteration, and lease of sites, facilities, buildings, and elements to the extent required by regulations issued by Federal agencies under the Architectural Barriers Act of 1968 (ABA).

Architectural Barriers Act (ABA) Standards

Note: This edition includes new provisions for outdoor developed areas and emergency transportable housing.

Adopted by the:
Department of Defense (2008)
General Services Administration (2005)
U.S. Postal Service (2005)



Existing facilities (unaltered) – not addressed by ABAAS but by other regulations (e.g., section 504)

29

Dimensions for Adults and Children §102 & §F102

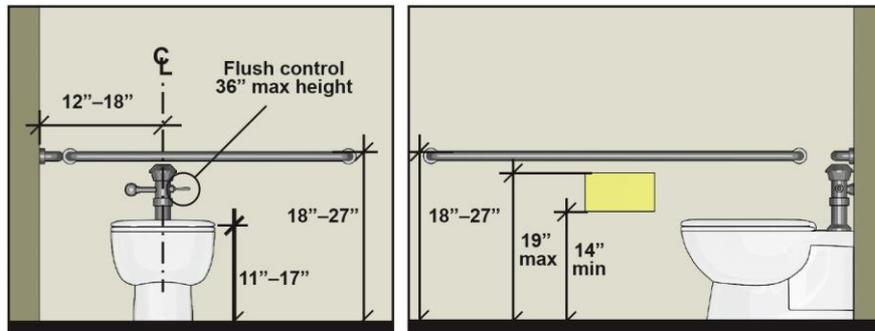
30

Dimensions for Adults and Children

- Technical requirements are based on adult dimensions and anthropometrics.
- Additional technical requirements based on children's dimensions and anthropometrics for;
 - drinking fountains (§602)
 - water closets and toilet compartments (§604)
 - lavatories and sinks (§606) and
 - dining and work surfaces (§902)

31

Children's Toilets



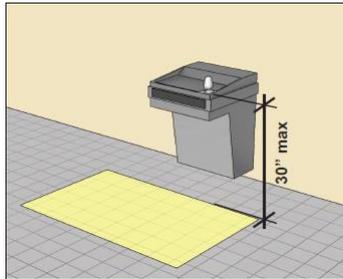
Advisory (Non-Mandatory) Specifications by Age Group			
	3 & 4	5 through 8	9 through 12
Water Closet Centerline	12"	12" – 15"	15" – 18"
Toilet Seat Height	11" – 12"	12" – 15"	15" – 17"
Grab Bar Height	18" – 20"	20" – 25"	25" – 27"
Dispenser Height	14"	14" – 17"	17" – 19"

32

Drinking Fountains (§602)

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches maximum above the finish floor or ground and is 3½ inches maximum from the front edge of the unit, including bumpers.



33

Lavatories and Sinks (§606)

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

EXCEPTIONS:

4. A knee clearance of 24 inches minimum above the finish floor or ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches maximum above the finish floor or ground.

5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.

34

Dining and Work Surfaces (§902)

902.4 Dining Surfaces and Work Surfaces for Children's Use. Accessible dining surfaces and work surfaces for children's use shall comply with 902.4.

EXCEPTION: Dining surfaces and work surfaces that are used primarily by **children 5 years and younger** shall **not** be required to comply with **902.4** where a clear floor or ground space complying with **305 positioned for a parallel approach** is provided.

902.4.1 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for **forward approach** shall be provided. Knee and toe clearance complying with 306 shall be provided, except that **knee clearance 24 inches** minimum above the finish floor or ground shall be permitted.

902.4.2 Height. The tops of tables and counters shall be 26 inches minimum and 30 inches maximum above the finish floor or ground.

35

Play Area (Advisory)

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

1008.4.3 Play Tables. Where play tables are provided, knee clearance 24 inches (610 mm) high minimum, 17 inches deep (430 mm) minimum, and 30 inches (760 mm) wide minimum shall be provided. The tops of rims, curbs, or other obstructions shall be 31 inches (785 mm) high maximum.

EXCEPTION: Play tables designed and constructed primarily for children 5 years and younger shall not be required to provide knee clearance where the clear floor or ground space required by 1008.4.2 is arranged for a parallel approach.

36

ADA & ABA Standards - Differences

- **Equivalent Facilitation/Modifications & Waivers**
- **Employee Work Areas**
- **Additions**
- **Leased Facilities**
- **Vertical Access Exceptions**
- **Outdoor Developed Areas**
- **Emergency Transportable Housing**
- **Unique provisions in DOJ & DOT Standards**

37

ADA: Equivalent Facilitation (§103)

ADA: No Waivers

103 - Nothing in these requirements prevents the use of designs, products, or technologies as alternatives to those prescribed, provided they result in:

- substantially equivalent or greater accessibility and usability.

38

ABA: Modifications and Waivers (§F103)

F103 - The ABA authorizes ...
to **modify or waive the
accessibility standards** for
buildings and facilities
covered by the ABA

AUTHORIZED UNDER THE ABA

- Administrator of the General Services Administration
- Secretary of the Department of Housing and Urban Development
- Secretary of the Department of Defense
- United States Postal Service

39

ABA: Modifications and Waivers (§F103)

- **Case-by-case basis where clearly necessary**
- **Rare and are usually considered only in unique circumstances that make compliance with certain provisions exceptionally problematic.**

**Section 502(b)(1) of the Rehabilitation Act of 1973
authorizes the Access Board to ensure that modifications
and waivers are based on findings of fact and are
consistent with ABA standards.**

40

Conventions

§104 & §F104

41

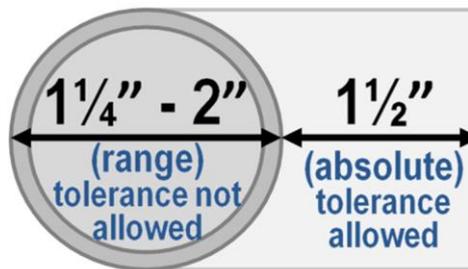
Conventions

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

42

Construction Tolerances

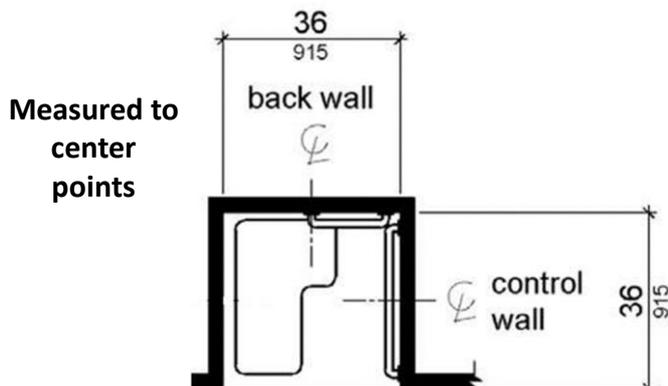
Grab Bar Diameter and Clearance



43

Construction Tolerances

e.g. transfer shower stall (36" x 36")



(manufacturing tolerances recognized)

44

Referenced Standards

§105 & §F105

45

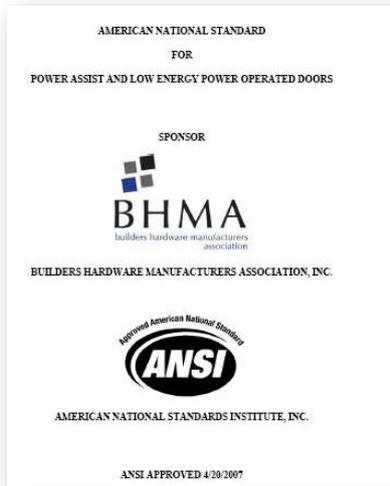
Referenced Standards

105.2 Referenced Standards. The specific edition of the standards listed below are referenced in this document. Where differences occur between this document and the referenced standards, this document applies.

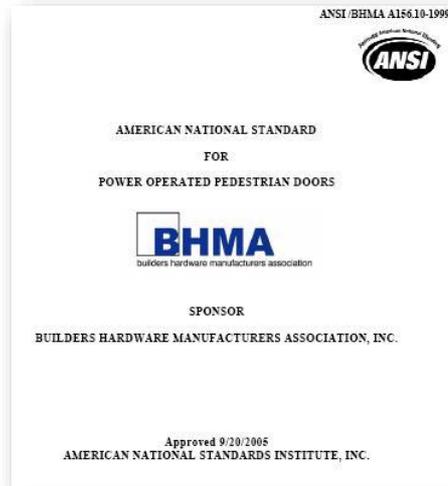
- **Powered doors**
(ANSI/BHMA A156.10 & A156.19)
- **Elevators and Lifts**
(ASME A17.1 & A18.1)
- **Egress - (IBC)**
- **Alarms - (NFPA 72)**
- **Play surfacing & equipment – (ASTM)**

46

Two BHMA/ANSI Standards



ANSI/BHMA A156.19



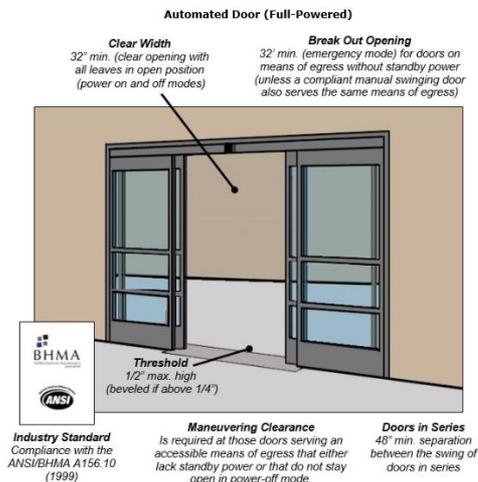
ANSI/BHMA A156.10

47

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.

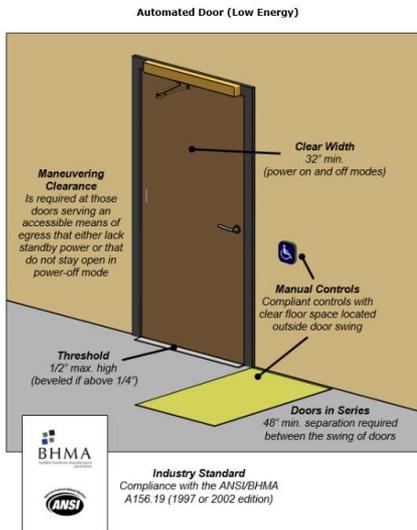


48

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)



49

ANSI/BHMA

Both referenced standards address:

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



50

ASME A18.1 Safety Standard (§410.1)

Covers the design, construction, installation, operation, inspection, testing, maintenance, and repair of lifts that are intended for transportation by persons with disabilities

ADA Standards currently require compliance with the 1999 edition or the 2003 editions of the A18.1 Standard.

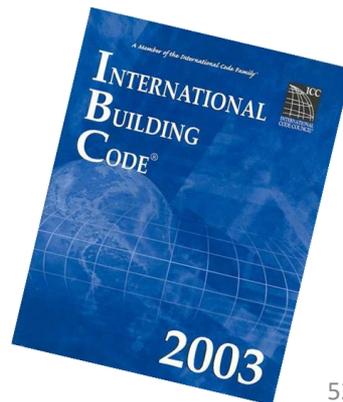
Current editions must be followed until the ADA Standards are updated to reference a later edition of the ASME A18.1 Standard.



51

Means of Egress & Areas of Rescue Assistance (§207)

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

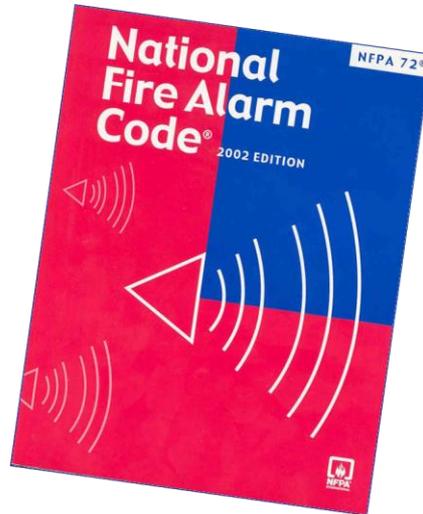


52

Fire Alarm Systems (§702)

**NFPA 72
(1999 or 2002)**

**ABAAS requires
110 dB max.**



53

Play Area Surfaces/Equipment



- **ASTM F 1487-01** - Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.
- **ASTM F 1292- 99 or 04** - Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment.
- **ASTM F 1951-99** - Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment
- Use of “Equivalent facilitation” for more recently published versions of these standards

54

ASTM F 1487-01

- Defines the use zone as the ground area beneath and immediately adjacent to a play structure or play equipment .

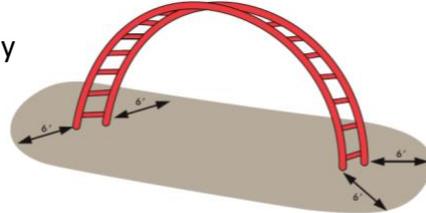


Figure 8. Use zone surrounding a freestanding arch climber

- Provides for unrestricted circulation around the equipment and on those surfaces where it is predicted that a user would land when falling from or exiting play structures or equipment

55

ASTM F 1292-99 or 04



- If located within the use zone, the accessible ground surfaces must also be impact attenuating
- No values shall exceed:
 - 200 g-max
 - 1000 HIC

56

ASTM F 1951-99

- **Wheelchair Work Test Method**
- **A lab test in a controlled environment**
- **7% ramp used as baseline**
- **Measures work per sq. ft. for straight propulsion and turning.**
- **Records data applied to push rim over 6 ½ ft. distance**



57

Definitions

§106 & §F106

58

Definitions

- **106.2 Terms Defined in Referenced Standards**
- **106.3 Undefined Terms**
- **106.4 Interchangeability**
- **106.5 Defined Terms.**

59

Defined Terms (§106.5)

All defined terms are *italicized* in the text

402 Accessible Routes

402.1 General. *Accessible* routes shall comply with 402.

402.2 Components. *Accessible* routes shall consist of one or more of the following components: walking surfaces with a *running slope* not steeper than 1:20, doorways, *ramps*, *curb ramps* excluding the flared sides, elevators, and platform lifts. All components of an *accessible* route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an *accessible* route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

60

Defined Terms (§106.5)

Alteration. A change to a building or facility that affects or could affect the usability of the building or facility or portion thereof. Alterations include, but are not limited to, remodeling, renovation, rehabilitation, reconstruction, historic restoration, resurfacing of circulation paths or vehicular ways, changes or rearrangement of the structural parts or elements, and changes or rearrangement in the plan configuration of walls and full-height partitions. Normal maintenance, reroofing, painting or wallpapering, or changes to mechanical and electrical systems are not alterations **unless they affect the usability** of the building or facility.

Technically Infeasible. With respect to an alteration of a building or a facility, something that has little likelihood of being accomplished because existing structural conditions would require removing or altering a load-bearing member that is an essential part of the structural frame; or because other existing physical or site constraints prohibit modification or addition of elements, spaces, or features that are in full and strict compliance with the minimum requirements.

61

Defined Terms (§106.5)

Common Use. Interior or exterior circulation paths, rooms, spaces, or elements that are not for public use and are made available for the shared use of two or more people.

Public Use. Interior or exterior rooms, spaces, or elements that are made available to the public. Public use may be provided at a building or facility that is privately or publicly owned.

Public Entrance. An entrance that is not a service entrance or a restricted entrance.

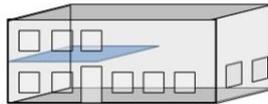
Service Entrance. An entrance intended primarily for delivery of goods or services.

Restricted Entrance. An entrance that is made available for common use on a controlled basis but not public use and that is not a service entrance.

62

Defined Terms (§106.5)

Mezzanine. An intermediate level or levels between the floor and ceiling of any story with an aggregate floor area of not more than one-third of the area of the room or space in which the level or levels are located. Mezzanines have sufficient elevation that space for human occupancy can be provided on the floor below.



Story. That portion of a building or facility designed for human occupancy included between the upper surface of a floor and upper surface of the floor or roof next above. A story containing one or more mezzanines has more than one floor level.

63

Questions?

64

Technical Guides on the Standards

Available the Board's website



65



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66



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67

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Using the ADA and ABA Standards Series

Chapter 2: Scoping - New Construction

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68