Welcome to the AccessibilityOnline Webinar Series

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

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

The content and materials of this training are property of the US Access Board and the DBTAC - Great Lakes ADA Center and cannot be used and/or distributed without permission. This program is funded under award #H133A060097 from the U.S. Department of Education through the auspices of the National Institute on Disability and Rehabilitation Research (NIDRR) and an inter-agency agreement with the U.S. Access Board. For permission to use training content or obtain copies of materials used as part of this program please contact us by email at adata@adagreatlakes.org or toll free (877)232-1990 (V/TTY)

Accessible Play Areas
Presenters
U.S. Access Board

Bill Botten  Peggy Greenwell

SESSION AGENDA

• Application of ABA and ADA Standards
• Play Area Terminology
• Ground Level Play Components and Accessible Routes
• Elevated Play Components and Accessible Routes
• Play Component Accessibility
• Soft Contained Play Structures
• Questions
New ADA and ABA Standards

- Based on the Board’s ADA-ABA Guidelines (2004)
- Revised 1991 ADA Standard (ADAAG and UFAS)
- Earlier supplements added – including “Play Areas and other Recreation Facilities”

2004 ADA/ABA Accessibility Guidelines

- ADA Application & Scoping Chapters (1 – 2) (pages 5 – 71)
- ABA Application & Scoping Chapters (1 – 2) (pages 72 – 140)
- Common Technical Chapters (3 – 10) (pages 141 – 289)
Architectural Barriers Act (ABA) Accessibility Standards

- Buildings and facilities constructed or altered or leased on behalf of the federal government
- Where?
  - employee day care centers, federal parks, other Federal leased facilities
- Play area accessibility guidelines effective May 8, 2006 - GSA

Current ADA Standards

Option:
DOJ’s 2010 standards (mandatory March 15, 2012)
OR
DOJ’s 1991 standards (until March 15, 2012)
What Standards Apply to Existing ADA Facilities?

• Title II — Program accessibility

• Title III — Readily achievable barrier removal

For more information, contact DOJ @ 800 514-0301

Safe Harbor – Existing Facilities

• Elements that comply with 1991 Standards do not need to be modified to meet the 2010 Standards unless those elements are altered on or after March 15, 2012.

• Safe Harbor does not apply to elements in existing facilities that were not subject to specific requirements in the 1991 Standards

For more information, contact DOJ @ 800 514-0301
Elements in 2010 Standards Not Subject to Safe Harbor

(A) Residential facilities and dwelling units
(B) Amusement rides
(C) Recreational boating facilities
(D) Exercise machines and equipment
(E) Fishing piers and platforms
(F) Golf facilities
(G) Miniature golf facilities
(H) Play areas
(I) Saunas and steam rooms
(J) Swimming pools, wading pools, and spas
(K) Shooting facilities with firing positions,
(L) Miscellaneous.
   (1) Team or player seating
   (2) Accessible route to bowling lanes
   (3) Accessible route in court sports facilities

For more information, contact DOJ @ 800 514-0301

Online Guidance
www.access-board.gov/ada/
Play Area Guidelines

Inside the Play Area

Outside the Play Area

The play area guidelines do not apply to:

• Play areas designed for children under 2 years old

• Family childcare facilities where the proprietor resides

• Amusement attractions

• Religious entities
Building Play Areas in Phases

Accessibility must be maintained in each phase of development.
Geographically Separated Play Areas
Alterations vs. Maintenance

Normal maintenance activities such as replacing worn “S” hooks or topping off ground surfaces are not considered alterations.

Alterations

• Actions that affect, or could affect, the usability of the play area.

Examples include removing a climbing play component & replacing it with a spring rocker, or changing the ground surfacing.
Alterations
Additional Requirements

- When altering a “primary function area”
  - Area altered must be in compliance with ADA or ABA Accessibility Standards
  - Provide “path of travel” to the altered area
- 20% Disproportionate Rule

Moving components to create safe use zones

- USE ZONE - Ground level area beneath and immediately adjacent to a play structure or piece of equipment that is designated for unrestricted circulation around the equipment.

- It is predicted that a user would fall and land or exit the equipment on the surface of the use zone.
Moving components to create safe use zones

- Guidelines do not apply where ground surface is not changed or extended more than one use zone.

When altering the play component...not the surface
Replacing the entire ground surface...

Play Area
- Contains play components
- Designed and constructed for children
Play Area Terms

Accessible Routes

- Route designed to provide access for individuals with disabilities
- Connects all entry and exit points of accessible play components
What is a Play Component?

A play component is an element designed to generate specific opportunities for play, socialization, and learning.

What is not a Play Component?

- Transfer Systems
- Steps
- Decks
- Roofs
**Ground level play components**

Approached and exited at ground level

**Elevated play components**

- Approached from elevated level
- Attached to composite play structure
- Components (counted once)
Determining Ground or Elevated

**Ground-Level Play Component**

**Elevated Play Component**

Play Types

Identified by the experience the play component generally is designed to provide

- Climbing
- Rocking
- Swinging
- Spinning
Ground-level Requirement
One of Each Type

More than one — integrated in the play area
Minimum number based on the number of elevated play components provided

- Minimum quantity of ground-level play components
- Minimum number of different types

<table>
<thead>
<tr>
<th>Number of Elevated Play Components</th>
<th>Min. Number of Ground Level Components Required to be on Accessible Route</th>
<th>Min. Number of Different Types of Ground Level Components Required to be on Accessible Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>2 to 4</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>5 to 7</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>8 to 16</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>11 to 15</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>14 to 16</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>17 to 19</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>20 to 22</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>23 to 25</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>More than 25</td>
<td>8 plus 1 for each additional 3 over 25, or fraction thereof</td>
<td>5</td>
</tr>
</tbody>
</table>

Ground Level Accessible Routes

- Surface
- Clear width
- Clear width reductions
- Changes in level
- Running Slope
- Cross Slope
- Openings
- Protruding Objects
Accessible Surfaces

Accessible ground surfaces must comply with ASTM F 1951-99.

Includes accessible routes, clear floor or ground spaces, and turning spaces

Accessible Surfaces located in the Use Zone

If located within the use zone, the accessible ground surfaces must also be impact attenuating (ASTM F 1292-99 or 04)
Surface inspection and maintenance

Accessible ground surfaces must be inspected and maintained regularly & frequently to ensure continued compliance with ASTM F 1951-99.

Ground-level Accessible Route

Clear width 60 inches minimum
Clear width reductions

Permitted to narrow to 36 inches for a distance of 60 inches

UNITED STATES ACCESS BOARD

Smaller Play Areas < 1000 sq.ft. must have:
- Ground accessible routes that are 44 inches in width
- Wheelchair turning space if route exceeds 30 ft. in length.
Changes in Level

Changes in level of 1/4 inch high maximum permitted to be vertical.

Changes in level between 1/4 inch high minimum and 1/2 inch high maximum to be beveled with a slope not steeper than 1:2.

Changes in level greater than 1/2 inch high must be ramped.

Running Slope

Maximum 1:16 running slope on ground-level accessible routes.
Cross Slope

- Cross slope of ground level route must not be steeper than 1:48.
  - Cross slope is the slope of the surface perpendicular to the direction of travel.
  - Cross slope is measured the same way as slope is measured (i.e., the rise over the run).

Openings

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.
Protruding Objects

• At ground level, objects may not protrude into the 60-inch wide space of an accessible route up to or below the height of 80 inches, measured above the accessible route surface.

• Applies only to the 60-inch ground level accessible route, and is not required for the entire play area.

Elevated Play Component Requirements

At least 50% of the elevated play components must be on an accessible route.
Minimum Number of Elevated Components

50% of all elevated play components in a play area must be reached by an accessible route.

Less than 20 elevated components: ramp and/or transfer = 50%

20 or more elevated components: 25% ramp + 25% ramp and/or transfer = 50%

Providing Ramp Access to 50% of the Play Components

No additional ground level components required.
Elevated Accessible Routes

- Ramps
- Transfer Systems

Elevated Accessible Route Width

- 36-inch minimum clear width
- Exceed where possible
- Some reductions permitted
32-inch narrowed width permitted for 24-inch length to accommodate features in the composite structure

Openings

- Shall not allow passage of a sphere more than 1/2 inch diameter

- Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

- Opening criteria only applies when elevated access is by ramp
Changes in Level

Changes in level of 1/4 inch high maximum permitted to be vertical.

Changes in level between 1/4 inch high minimum and 1/2 inch high maximum must be beveled with a slope not steeper than 1:2.

Changes in level greater than 1/2 inch high must be ramped.

Ramps
Running Slope

Maximum running slope for ramps on elevated accessible routes = 1:12

Ramp Rise

*Rise* of a ramp is the amount of vertical distance the inclined or slanted surface ascends or descends.

Maximum 12 inch vertical rise
Handrails

- Continuous within the full length of the ramp run

- Gripping surfaces with a circular cross section must have an outside diameter of 0.95 in. min. and 1.55 in. max.

- No extensions required

Handrails

- Top of handrail gripping surfaces must be 20 in. min. and 28 in. max. above the ramp surface.

- Clearance between handrail gripping surfaces and adjacent surfaces = 1 1/2 in. min.
Edge Protection

- Edge protection – extend deck 12 inches minimum OR provide a curb/barrier within 4 inches of ramp surface

![Diagram of Edge Protection]

Turning Space

- Turning or maneuvering space is defined as the space required for a wheelchair to make a 180-degree turn.

- At least one turning space must be provided on the same level as elevated play components.
Landings

• Level landings required at the top and bottom of elevated ramps

• If ramps change direction = 60 in. by 60 in. min.

• As wide as the ramp leading to it & 60 inches minimum in length

Cross Slope

- Cross slope of ramp runs must not be steeper than 1:48.
  - Cross slope is the slope of the surface perpendicular to the direction of travel.
Turning Space, Landings, and Clear Floor or Ground Spaces may overlap

Transfer Systems

- Transfer platforms
- Transfer steps
- Transfer supports
- Clear floor or ground space
Less than 20 Elevated Play Components

May use a transfer system, instead of ramps, to connect at least 50% of the elevated components.

Transfer Systems

- Consists of a transfer platform and transfer steps
- Individual transfers, or “bumps” or crawls up and down to access play components
Transfer Platform

Where it is expected that an individual would transfer onto the play structure and leave behind their wheelchair or mobility device

- 14 in. deep X 24 in. wide minimum
- 11–18 in. above the floor or ground surface
- 24 in. side to be unobstructed

Transfer Steps

- 14 in. deep by 24 in. wide minimum
- 8 in. maximum height
Transfer Supports

A means of support must be provided

Clear Floor and Ground Space

Adjacent to platform

UNITED STATES ACCESS BOARD
Transfer System Design

Limiting the distance required for movement

UNITED STATES ACCESS BOARD

Connected Elevated Play Components

• Where transfer systems are used...
  – Elevated play components may connect other elevated play components
  – Care must be taken
Accessible Play Components

- Clear floor or ground space
- Entry points and seats
- Play tables
- Reach ranges

Accessible Play Component Guidelines

Integration of accessible play components with other components
Clear Floor or Ground Space

• 30 in. x 48 in. min.
• Discretionary placement
• Applies to ground-level & elevated components accessed by ramp

Entry Points and Seats

• 11 in. minimum to 24 in. maximum above the ground or floor surface
• Mid-level height of 18 in. is recommended
Play Tables

• For ages 5 years old and over
• Knee clearance minimums
  – 24 inches high
  – 30 inches wide
  – 17 inches deep
• Top of rim 31 inches maximum

Play Tables – Under 5

May provide a parallel approach instead of knee clearance if the rim is a maximum of 31 in. high.
Reach ranges

Recommended specifications for locating manipulative features on play components within the reach of individuals using mobility devices.

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Reach Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 - 4 year olds</td>
<td>20 to 36 in.</td>
</tr>
<tr>
<td>5 - 8 year olds</td>
<td>18 to 40 in.</td>
</tr>
<tr>
<td>9 - 12 year olds</td>
<td>16 to 44 in.</td>
</tr>
</tbody>
</table>
Water Play Components

Ground level access and transfer access to elevated play components required

Soft Contained Play Structure Entry Points

A play structure made of one or more components where the user enters a fully enclosed environment that utilizes pliable materials

- 3 or fewer entry points = 1 on accessible route
- 4 or more entry points = 2 on accessible route

Transfer system permitted
RESOURCES

• Toll-free technical assistance hotline (800) 872-2253
• Phone: (TTY) (202) 272-0082
• E-mail – ta@access-board.gov

Questions?
Where to direct questions

U.S. Department of Justice
- Implementing regulation and additional requirements
- Requirements for existing facilities – title II & III

(800) 514-0301 (voice)
(800) 514-0383 (TTY)
www.ada.gov

U.S. Access Board
- 2010 Accessibility Standards for new construction and alterations

(800) 872-2253 (voice)
(800) 993-2822 (TTY)
(202) 272-0081 (FAX)
ta@access-board.gov
www.access-board.gov

Thank you for participating in today’s webinar

Next scheduled session:
“Accessible Residential Facilities”
January 6, 2011
2:30 p.m. – 4:00 p.m. ET

www.AccessibilityOnline.org