

Accessibility Standards for Outdoor Recreation Environments Quick View – Accessible Routes

Surface (ADA Standards 302.1)

- Accessible route surfaces shall be firm, stable, and slip resistant
 - A firm surface resists deformation by indentation
 - A stable surface is one that remains unchanged by contaminant or applied force
 - A slip resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation
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Clear Width (ADA Standards 403.5.1)

- 36 inches minimum; may be reduced to 32 inches minimum for a length of 24 inches maximum, but these reductions must be separated by minimum 48 inch long
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Passing Spaces (ADA Standards 403.5.3)

- Required where clear width is less than 60 inches
 - Provide in intervals of 200 feet maximum
 - Size: 60 x 60 inches minimum or T-shaped complying with 304.3.2
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Obstacles and Changes in Level (ADA Standards 403.4)

- ¼ inch high maximum; ½ inch permitted if beveled according to 303.3
 - Openings: ½ inch maximum
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Running Slope (ADA Standards 403.3)

- The running slope of walking surfaces shall not be steeper than 1:20 (5%)
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Cross Slope (ADA Standards 403.3)

- 2.08% maximum (1:48)
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Ramps (ADA Standards 405)

- Running slopes greater than 1:20 (5%) up to 1:12 (8.33%)
 - Maximum rise: 30 inches
 - Clear width: 36 inches
 - Landings must be provided at the top and bottom of each ramp run and where ramps change directions. Landings must be 60 inches long minimum. Must also be 60 inches wide where ramps change directions. (405.7)
 - Must have handrails (505) and edge protection (405.9) if rise is greater than 6 inches
 - No changes in level are permitted on ramp runs
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Protruding Objects (ADA Standards 307)

- Objects with leading edges between 27 and 80 inches above the ground shall protrude 4 inches maximum
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Doorways, Curb Ramps, Elevators, and Platform lifts (ADA Standards 402)

- In addition to walking surfaces and ramps discussed above, accessible routes also may consist of doorways, curb ramps, elevators, and platform lifts. See 402 for the specific technical requirements.
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Accessibility Standards for Outdoor Recreation Environments Quick View – Beach Access Routes

Surface (ABAAS 1018.3)

- Beach access route surfaces shall be firm and stable
- A firm surface resists deformation by indentation
- A stable surface is not permanently affected by expected weather conditions and can sustain normal wear and tear from the expected uses between planned maintenance

Clear Width (ABAAS 1018.4)

- 60 inches minimum (with exception for dune crossings)

Passing Spaces

- Not required since clear width is 60 inches

Tread Obstacles (ABAAS 1018.5, 1018.6)

- Concrete, asphalt or boards: ½ inch high maximum
- Other surfaces: 1 inches high maximum
- Openings: ½ inch maximum

Running Slope (ABAAS 1018.7.1)

- Where running slope of a beach access route segment is steeper than 5%, the maximum length of the segment shall be in accordance with Table 1018.7.1. A resting interval shall be provided at the top and bottom of each segment. Note: Removable beach access routes are not required to comply with running slope and resting interval requirements.

Table 1018.7.1 Maximum Running Slope and Segment Length		
Running Slope of Beach Access Route Segment		Maximum Length of Segment
Steeper than	But not Steeper than	
1:20 (5%)	1:12 (8.33%)	50 feet (15 m)
1:12 (8.33%)	1:10 (10%)	30 feet (9 m)

Cross Slope (ABAAS 1018.7.2)

- Concrete, asphalt or boards; 2.08% maximum (1:48)
- Other surfaces: 5% maximum (1:20) when necessary for drainage

Resting Intervals (ABAAS 1018.8)

- Size: 60 inches long minimum by 60 inches wide minimum
- Slope: 2.08 percent maximum (concrete, asphalt, or boards); 5 percent maximum (other surfaces) where necessary for drainage

Protruding Objects (ABAAS 1018.9; ABAAS 307)

- Applies to constructed elements on beach access routes
- Objects with leading edges between 27 and 80 inches above the ground shall protrude 4 inches maximum

Dune Crossings (ABAAS 1018.10)

- If slope of a beach access route at a dune crossing is greater than 1:20 (5%), handrails and edge protection must be provided. The edge protection must prevent the passage of a 2-inch sphere.

Accessibility Standards for Outdoor Recreation Environments Quick View – ORAR

Surface (ABAAS 1016.2)

- Outdoor recreation access route surfaces shall be firm and stable
- A firm surface resists deformation by indentation
- A stable surface is not permanently affected by expected weather conditions and can sustain normal wear and tear from the expected uses between planned maintenance

Clear Width (ABAAS 1016.3)

- 36 inches minimum

Passing Spaces (ABAAS 1016.4)

- Required where clear tread width is less than 60 inches
- Provide in intervals of 200 feet maximum
- Size: 60 x 60 inches minimum or T-shaped complying with ABAAS 304.3.2 at the intersection of two ORARs

Tread Obstacles (ABAAS 1016.5, 1016.6)

- Concrete, asphalt or boards: ½ inch high maximum
- Other surfaces: 2 inches high maximum
- Openings: ½ inch maximum

Running Slope (ABAAS 1016.7.1)

- Where running slope of an ORAR segment is steeper than 5%, the maximum length of the segment shall be in accordance with Table 1016.7.1. A resting interval shall be provided at the top and bottom of each segment

Table 1016.7.1 Maximum Running Slope and Segment Length		
Running Slope of ORAR Segment		Maximum Length of Segment
Steeper than	But not Steeper than	
1:20 (5%)	1:12 (8.33%)	50 feet (15 m)
1:12 (8.33%)	1:10 (10%)	30 feet (9 m)

Cross Slope (ABAAS 1016.7.2)

- Concrete, asphalt or boards; 2.08% maximum (1:48)
- Other surfaces: 5% maximum (1:20) when necessary for drainage

Resting Intervals (ABAAS 1016.8)

- Length: 60 inches long minimum
- Within the ORAR: clear width shall be at least as wide as the widest segment of the ORAR leading to the resting interval
- Adjacent to the ORAR: clear width shall be 36 inches minimum; turning space required (304.3.2)
- Slope: 2.08 percent maximum (concrete, asphalt, or boards); 5 percent maximum (other surfaces) where necessary for drainage

Protruding Objects (ABAAS 1017.9; ABAAS 307)

- Applies to constructed elements on outdoor recreation access routes, passing spaces, and resting intervals
- Objects with leading edges between 27 and 80 inches above the ground shall protrude 4 inches maximum

Accessibility Standards for Outdoor Recreation Environments Quick View – Shared Use Paths

Surface (Shared Use Paths SNPRM R302.7)

- Shared Use Path surfaces shall be firm, stable, and slip resistant
 - A firm surface resists deformation by indentation
 - A stable surface is one that remains unchanged by contaminant or applied force
 - A slip resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation
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Clear Width

- AASHTO Guide for the Development of Bicycle Facilities (2012) recommends a minimum width of 10 feet for two-directional traffic; in rare circumstances, may be reduced to 8 feet
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Passing Spaces (Shared Use Paths SNPRM R302.4)

- Required where clear width is less than 60 inches
 - Provide in intervals of 200 feet maximum
 - Size: 60 x 60 inches minimum
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Obstacles and Changes in Level

- ¼ inch high maximum; ½ inch permitted if beveled with a slope not steeper than 50 percent (Shared Use Paths SNPRM R302.7.2)
 - Openings: ½ inch maximum, elongated openings in gratings shall be places do that the long dimension is perpendicular to the dominant direction of travel (Shared Use Paths SNPRM R302.7.3)
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Running Slope (Shared Use Paths SNPRM R302.5)

- The running slope of Shared Use Paths shall not be steeper than 1:20 (5%)
 - Exception: if a physical or regulatory constraint make a slope of 5% or less impracticable, then must be 5% or less to the extent practicable (Shared Use Paths SNPRM R302.5.4; R302.5.5)
 - Exception: if within a street right of way, can exceed 5% up to the slope of the adjacent street
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Cross Slope (Shared Use Paths SNPRM R302.6)

- 2% maximum (1:50)
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Protruding Objects (Shared Use Paths SNPRM R210.3)

- Objects shall not overhang or protrude into any portion of a shared use path at or below 8 feet
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Accessibility Standards for Outdoor Recreation Environments Quick View – Trails

Surface (ABAAS 1017.2)

- Trail surfaces shall be firm and stable
- A firm surface resists deformation by indentation
- A stable surface is not permanently affected by expected weather conditions and can sustain normal wear and tear from the expected uses between planned maintenance

Clear Tread Width (ABAAS 1017.3)

- 36 inches minimum

Passing Spaces (ABAAS 1017.4)

- Required where clear tread width <60 inches
- Provide in intervals of 1000 feet maximum
- Size: 60 x 60 inches minimum or T-shaped complying with ABAAS 304.3.2

Tread Obstacles (ABAAS 1017.5, 1017.6)

- Concrete, asphalt or boards: ½ inch high maximum
- Other surfaces: 2 inches high maximum
- Openings: ½ inch maximum

Running Slope (ABAAS 1017.7.1)

- Where running slope of trail segments is steeper than 5%, the maximum length of the segment shall be in accordance with Table 1017.7.1. A resting interval shall be provided at the top and bottom of each segment

Table 1017.7.1 Maximum Running Slope and Segment Length		
Running Slope of Trail Segment		Maximum Length of Segment
Steeper than	But not Steeper than	
1:20 (5%)	1:12 (8.33%)	200 feet (61 m)
1:12 (8.33%)	1:10 (10%)	30 feet (9 m)
1:10 (10%)	1:8 (12%)	10 feet (3050 mm)

Cross Slope (ABAAS 1017.7.2)

- Concrete, asphalt or boards; 2.08% maximum (1:48)
- Other surfaces: 5% maximum (1:20)

Resting Intervals (ABAAS 1017.8)

- Length: 60 inches long minimum
- Within the trail tread: clear width shall be at least as wide as the widest segment of the trail tread leading to the resting interval
- Adjacent to the trail tread: clear width shall be 36 inches minimum; turning space required (304.3.2)
- Slope: 2.08 percent maximum (concrete, asphalt, or boards); 5 percent maximum (other surfaces) where necessary for drainage

Protruding Objects (ABAAS 1017.9; ABAAS 307)

- Applies to constructed elements on trails, passing paces, and resting intervals
- Objects with leading edges between 27 and 80 inches above the ground shall protrude 4 inches maximum