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25 inches (64 mm) maximum. Figure 810.10 (Exception) Track Crossings 811 Storage 811.1 General Storage shall comply with 811. 811.2 Clear Floor or Ground Space A clear floor or ground space complying with 305 shall be provided. 811.3 Height Storage elements shall comply with at least one of the reach ranges specified in 308. 811.4 Operable Parts Operable parts shall comply with 309. The provisions of Chapter 9 shall apply where required by Chapter 2 or where referenced by a requirement in this document. 902 Dining Surfaces and Work Surfaces 902.1 General Dining surfaces and work surfaces shall comply with 902.2 and 902.3. EXCEPTION: Dining surfaces and work surfaces for children's use shall be permitted to comply with 902.4. Advisory 902.1 General Dining surfaces include, but are not limited to, bars, tables, lunch counters, and booths. Examples of work surfaces include writing surfaces, study carrels, student laboratory stations, baby changing and other tables or fixtures for personal grooming, coupon counters, and where covered by the ABA scoping provisions, employee work stations. 902.2 Clear Floor or Ground Space A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided. 902.3 Height The tops of dining surfaces and work surfaces shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground. 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 (610 mm) minimum above the finish floor or ground shall be permitted. 902.4.2 Height The tops of tables and counters shall be 26 inches (660 mm) minimum and 30 inches (760 mm) maximum above the finish floor or ground. 903 Benches 903.1 General Benches shall comply with 903. 903.2 Clear Floor or Ground Space A clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench. 903.3 Size Benches shall have seats that are 42 inches (1065 mm) long minimum and 20 inches (510 mm) deep minimum and 24 inches (610 mm) maximum. 903.4 Back Support The bench shall provide back support or shall be affixed to a wall surface. Back support shall be 2 1/2 inches (64 mm) maximum from the rear edge of the seat measured horizontally. Advisory 903.4 Back Support. To assist in transferring to the bench, consider providing grab bars on a wall adjacent to the bench, but not on the seat back. If provided, grab bars cannot obstruct transfer to the bench. Figure 903.4 Bench Back Support 903.5 Height The top of the bench seat surface shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the finish floor or ground. 903.6 Structural Strength Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure. 903.7 Wet Locations Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water. 904 Check-Out Aisles and Sales and Service Counters 904.1 General Check-out aisles and sales and service counters shall comply with the applicable requirements of 904. 904.2 Approach All portions of counters required to comply with 904 shall be located adjacent to a walking surface complying with 403. Advisory 904.2 Approach. If a cash register is provided at the sales or service counter, locate the accessible counter close to the cash register so that a person using a wheelchair is visible to sales or service personnel and to minimize the reach for a person with a disability. 904.3 Check-Out Aisles Check-out aisles shall comply with 904.3. 904.3.1 Aisle Aisles shall comply with 403. 904.3.2 Counter The counter surface height shall be 38 inches (965 mm) maximum above the finish floor or ground. The top of the counter edge protection shall be 2 inches (51 mm) maximum above the top of the counter surface on the aisle side of the check-out counter. Figure 904.3.2 Check-Out Aisles Counters 904.3.3 Check Writing Surfaces Where provided, check writing surfaces shall comply with 902.3. 904.4 Sales and Service Counters Sales counters and service counters shall comply with 904.4.1 or 904.4.2. The accessible portion of the counter top shall extend the same depth as the sales or service counter top. EXCEPTION: In alterations, when the provision of a counter complying with 904.4 would result in a reduction of the number of existing counters at work stations or a reduction of the number of existing menu boards, the counter shall be permitted to protrude a distance of 25 inches (635 mm) maximum above the floor or ground surface of the wheelchair space. Objects are permitted to protrude a distance of 25 inches (635 mm) maximum above the floor or ground surface of the wheelchair space when located more than 27 inches (685 mm) above the floor or ground surface of the wheelchair space. Figure 1002.4.4 Protrusions in Wheelchair Spaces in Amusement Rides 1002.4.5 Ride Entry Openings providing entry to wheelchair spaces in amusement rides shall be 32 inches (815 mm) minimum clear. 1002.4.6 Approach One side of the wheelchair space shall adjoin an accessible route when in the load and unload position. 1002.4.7 Companion Seats Where the interior width of the amusement ride is greater than 53 inches (1345 mm), seating is provided for more than one rider, and the wheelchair is not required to be centered within the amusement ride, a companion seat shall be provided for each wheelchair space. 1002.4.7.1 Shoulder-to-Shoulder Seating. Where an amusement ride provides shoulder-to-shoulder seating, companion seats shall be shoulder-to-shoulder with the adjacent wheelchair space. EXCEPTION: Where shoulder-to-shoulder companion seating is not operationally or structurally feasible, compliance with this requirement shall be required to the maximum extent practicable. 1002.5 Amusement Ride Seats Designed for Transfer Amusement ride seats designed for transfer shall comply with 1002.5 when positioned for loading and unloading. Advisory 1002.5 Amusement Ride Seats Designed for Transfer. The proximity of the clear floor or ground space next to an element and the height of the element one is transferring to are both critical for a safe and independent transfer. Providing additional clear floor or ground space both in front of and diagonal to the element will provide flexibility and will increase usability for a more diverse population of individuals with disabilities. Ride seats designed for transfer should involve only one transfer. Where possible, designers are encouraged to locate the ride seat no higher than 17 to 19 inches (430 to 485 mm) above the load and unload surfaces. Seat padding, and avoiding sharp objects in the path of transfer will facilitate transfer. Advisory 1002.5.1 Clear Floor or Ground Space A clear floor or ground space complying with 305 shall be provided in the load and unload area adjacent to the amusement ride seats designed for transfer. 1002.5.2 Transfer Height The height of amusement ride seats designed for transfer shall be 14 inches (355 mm) minimum and 24 inches (610 mm) maximum measured from the surface of the load and unload area. 1002.5.3 Transfer Entry Where openings are provided for transfer to amusement ride seats, the openings shall provide clearance for transfer from a wheelchair or mobility aid to the amusement ride seat. 1002.5.4 Wheelchair Storage Space Wheelchair storage spaces complying with 305 shall be provided in or adjacent to unload areas for each required amusement ride seat designed for transfer and shall not overlap any required means of egress or accessible route. 1002.6 Transfer Devices for Use with Amusement Rides Transfer devices for use with amusement rides shall comply with 1002.6 when positioned for loading and unloading. Advisory 1002.6 Transfer Devices for Use with Amusement Rides. Transfer devices for use with amusement rides should permit individuals to make independent transfers to and from their wheelchairs or mobility devices. There are a variety of transfer devices available that could be adapted to provide access onto an amusement ride. Examples of devices that may be provided for transfers include, but are not limited to, transfer systems, lifts, mechanized seats, and custom designed systems. Operators and designers have flexibility in developing designs that will facilitate individuals to transfer onto amusement rides. These systems or devices should be designed to be reliable and sturdy. Designs that limit the number of transfers required from a wheelchair or mobility device to the ride seat are encouraged. When using a transfer device to access an amusement ride, the least number of transfers and the shortest distance is most usable. Where possible, designers are encouraged to locate the transfer device seat no higher than 17 to 19 inches (430 to 485 mm) above the load and unload surfaces. Where possible, designers are encouraged to locate the ride seat no higher than 17 to 19 inches (430 to 485 mm) above the load and unload surfaces. Seats and transition plates shall be designed to be parallel to the load and unload surfaces. Changes in slope complying with 303.3 and 305.4 shall be permitted on the surfaces of gangways and boat launch ramps. Advisory 1002.6.1 Clear Floor or Ground Space A clear floor or ground space complying with 305 shall be provided in the load and unload area adjacent to the transfer device. 1002.6.2 Transfer Height The height of transfer device seats shall be 14 inches (355 mm) minimum and 24 inches (610 mm) maximum measured from the load and unload surface. 1002.6.3 Wheelchair Storage Space Wheelchair storage spaces complying with 305 shall be provided in or adjacent to unload areas for each required transfer device and shall not overlap any required means of egress or accessible route. 1003 Recreational Boating Facilities 1003.1 General Recreational boating facilities shall comply with 1003. 1003.2 Accessible Routes Accessible routes serving recreational boating facilities, including gangways and floating piers, shall comply with Chapter 4 except as modified by the exceptions in 1003.2. 1003.2.1 Boat Slips Accessible routes serving boat slips shall be permitted to use the exceptions in 1003.2.1. EXCEPTIONS: 1. Where an existing gangway or series of gangways is replaced or altered, an increase in the length of the gangway shall not be required to comply with 1003.2 unless required by 202.4. 2. Gangways shall not be required to comply with the maximum rise specified in 405.6. 3. Where the total length of a gangway or series of gangways serving as part of a required accessible route is 80 feet (24 m) minimum, gangways shall not be required to comply with 405.2. 4. Where facilities contain fewer than 25 boat slips and the total length of the gangway or series of gangways serving as part of a required accessible route is 30 feet (9145 mm) minimum, gangways shall not be required to comply with 405.2. 5. Where gangways connect to transition plates, landings specified by 405.7 shall not be required. 6. Where gangways and transition plates connect and are required to have handrails, handrail extensions shall not be required. Where handrail extensions are provided on gangways or transition plates, the handrail extensions shall not be required to be parallel with the ground or floor surface. 7. The cross slope provided in 403.3 for gangways, transition plates, and floating piers that are part of accessible routes shall be measured in the static position. 8. Changes in level complying with 303.3 and 305.4 shall be permitted on the surfaces of gangways and boat launch ramps. Advisory 1003.2.1 Boat Slips Exception 3. The following example shows how exception 3 would be applied: A gangway is provided to a floating pier which is required to be on an accessible route. The vertical distance is 10 feet (3050 mm) between the elevation where the gangway departs the landside connection and the elevation of the pier surface at the lowest water level. Exception 3 permits the gangway to be 80 feet (24 m) long. Another design solution would be to have two 40 foot (12 m) plus continuous gangways joined together at a float, where the float (as the water level falls) will stop dropping at an elevation five feet below the landside connection. The length of transition plates would not be included in determining if the gangway(s) meet the requirements of the exception. 1003.2.2 Boarding Piers at Boat Launch Ramps Accessible routes serving boarding piers at boat launch ramps shall be permitted to use the exceptions in 1003.2.2. EXCEPTIONS: 1. Accessible routes serving floating boarding piers shall be permitted to use Exceptions 1, 2, 5, 6, 7 and 8 in 1003.2.1. 2. Where the total length of the gangway or series of gangways serving as part of a required accessible route is 30 feet (9145 mm) minimum, gangways shall not be required to comply with 405.2. 3. Where the accessible route serving a floating boarding pier or skid pier is located within a boat launch ramp, the portion of the accessible route located within the boat launch ramp shall not be required to comply with 405. 1003.3 Clearances Clearances at boat slips and on boarding piers at boat launch ramps shall comply with 1003.3. Advisory 1003.3 Clearances. Although the minimum width of the clear pier space is 60 inches (1525 mm), it is recommended that piers be wider than 60 inches (1525 mm) to improve the safety for persons with disabilities, particularly on floating piers. 1003.3.1 Boat Slip Clearance Boat slips shall provide clear pier space 60 inches (1525 mm) wide minimum and at least as long as the boat slips. Each 10 feet (3050 mm) maximum of linear pier edge serving boat slips shall contain at least one continuous clear opening 60 inches (1525 mm) wide minimum. EXCEPTIONS: 1. Clear pier space shall be permitted to be 36 inches (915 mm) wide minimum for a length of 24 inches (610 mm) maximum, provided that multiple 36 inch (915 mm) wide segments are separated by segments that are 60 inches (1525 mm) wide minimum and 60 inches (1525 mm) long minimum. 2. Edge protection shall be permitted at the continuous clear openings, provided that it is 4 inches (100 mm) high maximum and 2 inches (51 mm) wide maximum. 3. In existing piers, clear pier space shall be permitted to be located perpendicular to the boat slip and shall extend the width of the boat slip, where the facility has at least one boat slip complying with 1003.3, and further compliance with 1003.3 would result in a reduction in the number of boat slips available or result in a reduction of the widths of existing slips. Advisory 1003.3.1 Boat Slip Clearance Exception 3. Where the conditions in exception 3 are satisfied, existing facilities are only required to have one accessible boat slip with a pier clearance which runs the length of the slip. All other accessible slips are allowed to have the required pier clearance at the head of the slip. Under this exception, at piers with perpendicular boat slips, the width of most "finger piers" will remain unchanged. However, where mooring systems for floating piers are replaced as part of pier alteration projects, an opportunity may exist for increasing accessibility. Piers may be reconfigured to allow an increase in the number of wider finger piers, and serve as accessible boat slips. Figure 1003.3.1 Boat Slip Clearance Figure 1003.3.1 (Exception 1) Clear Pier Space Reduction at Boat Slips Figure 1003.3.1 (Exception 2) Edge Protection at Boat Slips 1003.3.2 Boarding Pier Clearances Boarding piers at boat launch ramps shall provide clear pier space 60 inches (1525 mm) wide minimum and shall extend the full length of the boarding pier. Every 10 feet (3050 mm) maximum of linear pier edge shall contain at least one continuous clear opening 60 inches (1525 mm) wide minimum. EXCEPTIONS: 1. The clear pier space shall be permitted to be 36 inches (915 mm) wide minimum for a length of 24 inches (610 mm) maximum provided that multiple 36 inch (915 mm) wide segments are separated by segments that are 60 inches (1525 mm) wide minimum and 60 inches (1525 mm) long minimum. 2. Edge protection shall be permitted at the continuous clear openings provided that it is 4 inches (100 mm) high maximum and 2 inches (51 mm) wide maximum. Advisory 1003.3.2 Boarding Pier Clearances. These requirements do not establish a minimum length for accessible boarding piers at boat launch ramps. The accessible boarding pier should have a length at least equal to that of other boarding piers provided at the facility. If no other boarding pier is provided, the pier would have a length equal to what would have been provided if no access requirements applied. The entire length of accessible boarding piers would be required to comply with the same technical provisions that apply to accessible boat slips. For example, at a launch ramp, if a 20 foot (6100 mm) long accessible boarding pier is provided, the entire 20 feet (6100 mm) must comply with the pier clearance requirements in 1003.3. Likewise, if a 60 foot (18 m) long accessible boarding pier is provided, the pier clearance requirements in 1003.3 would apply to the entire 60 feet (18 m). The following example applies to a boat launch ramp boarding pier: A chain of floats is provided on a launch ramp to be used as a boarding pier which is required to be accessible by 1003.3.2. At high water, the entire chain is floating and a transition plate connects the first float to the surface of the launch ramp. As the water level decreases, segments of the chain end up resting on the launch ramp surface, matching the slope of the launch ramp. Figure 1003.3.2 Boarding Pier Clearance Figure 1003.3.2 (Exception 1) Clear Pier Space Reduction at Boarding Piers Figure 1003.3.2 (Exception 2) Edge Protection at Boarding Piers 1004 Exercise Machines and Equipment 1004.1 Clear Floor Space Exercise machines and equipment shall have a clear floor space complying with 305 positioned for transfer or for use by an individual seated in a wheelchair. Clear floor or ground spaces required at exercise machines and equipment shall be permitted to overlap. Advisory 1004.1 Clear Floor Space. One clear floor or ground space is permitted to be shared between two pieces of exercise equipment. To optimize space use, designers should carefully consider layout options such as connecting ends of the row and center aisle spaces. The position of the clear floor space may vary greatly depending on the use of the equipment or machine. For example, to provide access to a shoulder press machine, the clear floor space next to the seat would be appropriate to allow for transfer. Clear floor space for a bench press machine designed for use by an individual seated in a wheelchair, however, will most likely be centered on the operating mechanism. 1005 Fishing Piers and Platforms 1005.1 Accessible Routes Accessible routes serving fishing piers and platforms, including gangways and floating piers, shall comply with Chapter 4. EXCEPTIONS: 1. Accessible routes serving floating fishing piers and platforms shall be permitted to use Exceptions 1, 2, 5, 6, 7 and 8 in 1003.2.1. 2. Where the total length of the gangway or series of gangways serving as part of a required accessible route is 30 feet (9145 mm) minimum, gangways shall not be required to comply with 405.2. 1005.2 Railings Where provided, railings, guards, or handrails shall comply with 1005.2. 1005.2.1 Height At least 25 percent of the railings, guards, or handrails shall be 34 inches (865 mm) maximum above the ground or deck surface. EXCEPTION: Where a guard complying with sections 1003.2.12.1 and 1003.2.12.2 of the International Building Code (2000 edition) or sections 1012.2 and 1012.3 of the International Building Code (2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1) is provided, the guard shall not be required to comply with 1005.2.1. 1005.2.1.1 Dispersion. Railings, guards, or handrails required to comply with 1005.2.1 shall be dispersed throughout the fishing pier or platform. Advisory 1005.2.1.1 Dispersion. Portions of the railings that are lowered to provide fishing opportunities for persons with disabilities must be located in a variety of locations on the fishing pier or platform to give people a variety of locations to fish. Different fishing locations may provide varying water depths, shade (at certain times of the day), vegetation, and proximity to the shoreline or bank. 1005.3 Edge Protection Where railings, guards, or handrails complying with 1005.2 are provided, edge protection complying with 1005.3.1 or 1005.3.2 shall be provided. Advisory 1005.3 Edge Protection. Edge protection is required only where railings, guards, or handrails are provided on a fishing pier or platform. Edge protection will protect wheelchairs and other mobility devices from slipping off the fishing pier or platform. 12 inch (305 mm) high railing is permitted as an alternative design, permitting individuals to use wheelchairs or other mobility devices to pull into a clear space and move beyond the edge of the railing. In such a design, curbs or barriers are not required. 1005.3.1 Curb or Barrier Curbs or barriers shall extend 2 inches (51 mm) minimum above the surface of the fishing pier or platform. 1005.3.2 Extended Ground or Deck Surface The ground or deck surface shall extend 12 inches (305 mm) minimum beyond the inside face of the railing. Toe clearance shall be 30 inches (760 mm) wide minimum and 9 inches (230 mm) minimum above the ground or deck surface beyond the railing. Figure 1005.3.2 Extended Ground or Deck Surface at Fishing Piers and Platforms 1005.4 Clear Floor or Ground Space At each location where there are railings, guards, or handrails complying with 1005.2.1, a clear floor or ground space complying with 305 shall be provided. Where there are no railings, guards, or handrails, at least one clear floor or ground space complying with 305 shall be provided on the fishing pier or platform. 1005.5 Turning Space At least one turning space complying with 304.3 shall be provided on fishing piers and platforms. 1006 Golf Facilities 1006.1 General Golf facilities shall comply with 1006. 1006.2 Accessible Routes Accessible routes serving teeing grounds, practice teeing grounds, putting greens, practice putting greens, teeing stations at driving ranges, course weather shelters, golf car rental areas, bag drop areas, and course toilet rooms shall comply with Chapter 4 and shall be 48 inches (1220 mm) wide minimum. Where handrails are provided, accessible routes shall be 60 inches (1525 mm) wide minimum. EXCEPTION: Handrails shall not be required on golf courses. Where handrails are provided on golf courses, the handrails shall not be required to comply with 505. Advisory 1006.2 Accessible Routes. The 48 inch (1220 mm) minimum width for the accessible route is necessary to ensure passage of a golf car on either the accessible route or the golf car passage. This is important because the accessible route is used to connect the golf car rental area, bag drop areas, practice putting greens, practice teeing grounds, course toilet rooms, and course weather shelters. These areas outside the boundary of the golf course, but are areas where an individual using an adapted golf car may travel. A golf car passage may not be substituted for other accessible routes to be located outside the boundary of the course. For example, an accessible route connecting an accessible parking space to the entrance of a golf course clubhouse is not covered by this provision. Providing a golf car passage will permit a person that uses a golf car to practice driving a golf ball from the same position and stance used when playing the game. Additionally, the space required for a person using a golf car to enter and maneuver within the teeing stations required to be accessible should be considered. 1006.3 Golf Car Passages Golf car passages shall comply with 1006.3. 1006.3.1 Clear Width The clear width of golf car passages shall be 48 inches (1220 mm) minimum. 1006.3.2 Barriers Where curbs or other constructed barriers prevent golf cars from entering a fairway, openings 60 inches (1525 mm) wide minimum shall be provided at intervals not to exceed 75 yards (69 m). 1006.4 Weather Shelters A clear floor or ground space 60 inches (1525 mm) minimum by 96 inches (2440 mm) minimum shall be provided within weather shelters. 1007 Miniature Golf Facilities 1007.1 General Miniature golf facilities shall comply with 1007. 1007.2 Accessible Routes Accessible routes serving holes on miniature golf courses shall comply with Chapter 4. Accessible routes located on playing surfaces of miniature golf holes shall be permitted to use the exceptions in 1007.2. EXCEPTIONS: 1. Playing surfaces shall not be required to comply with 302.2. 2. Where accessible routes intersect playing surfaces of holes, a 1 inch (25 mm) maximum curb shall be permitted for a width of 32 inches (815 mm) minimum. 3. A slope not steeper than 1:4 for a 4 inch (100 mm) maximum rise shall be permitted. 4. Ramp landing slopes specified by 405.7.1 shall be permitted to be 1:20 maximum. 5. Ramp landing length specified by 405.7.3 shall be permitted to be 48 inches (1220 mm) long minimum. 6. Ramp landing slope specified by 405.7.4 shall be permitted to be 48 inches (1220 mm) minimum by 60 inches (1525 mm) minimum. 7. Slopes steeper than 1:48 shall be provided at the start of play. 1007.3.2 Golf Club Reach Range Area all areas within holes where golf balls rest shall be within 36 inches (915 mm) maximum of a clear floor or ground space 36 inches (915 mm) wide minimum and 48 inches (1220 mm) long minimum having a running slope not steeper than 1:20. The clear floor or ground space shall be served by an accessible route. Advisory 1007.3.2 Golf Club Reach Range Area. The golf club reach range applies to all holes required to be accessible. This includes accessible routes provided adjacent to or, where provided, on the playing surface of the hole. Figure 1007.3.2 Golf Club Reach Range Area 1008 Play Areas 1008.1 General Play areas shall comply with 1008. 1008.2 Accessible Routes Accessible routes serving play areas shall comply with Chapter 4 and 1008.2 and shall be permitted to use the exceptions in 1008.2.1 through 1008.2.3. Where accessible routes serve ground level play components, the vertical clearance shall be 80 inches high (2030 mm) minimum. 1008.2.1 Ground Level and Elevated Play Components Accessible routes serving ground level play components and elevated play components shall be permitted to use the exceptions in 1008.2.1. EXCEPTIONS: 1. Transfer systems complying with 1008.3 shall be permitted to connect elevated play components except where 20 or more elevated play components are provided no more than 25 percent of the elevated play components shall be permitted to be connected by transfer systems. 2. Where transfer systems are provided, an elevated play component shall be permitted to connect to another elevated play component as part of an accessible route. 1008.2.2 Soft Contained Play Structures Accessible routes serving soft contained play structures shall be permitted to use the exception in 1008.2.2. EXCEPTION: Transfer systems complying with 1008.3 shall be permitted to be used as part of an accessible route. 1008.2.3 Water Play Components Accessible routes serving water play components shall be permitted to use the exceptions in 1008.2.3. EXCEPTIONS: 1. Transfer systems shall be permitted to connect to another elevated play component as part of an accessible route. 1008.2.4 Water Play Components. Personal wheelchairs and mobility devices may not be appropriate for submerging in water when using play components in water. Some may have batteries, motors, and electrical systems that when submerged in water may cause damage to the personal mobility device or wheelchair or may contaminate the water. Providing an aquatic wheelchair made of non-corrosive materials and designed for access into the water will protect the water from contamination and avoid damage to personal wheelchairs. 1008.2.4 Clear Width Accessible routes connecting play components shall provide a clear width complying with 1008.2.4. 1008.2.4.1 Ground Level. At ground level, the clear width of accessible routes shall be 60 inches (1525 mm) minimum. EXCEPTIONS: 1. In play areas less than 1000 square feet (93 m<sup>2</sup>), the clear width of accessible routes shall be permitted to be 44 inches (1120 mm) minimum, if at least one turning space complying with 304.3 is provided where the restricted accessible route exceeds 30 feet (9145 mm) in length. 2. The clear width of accessible routes shall be permitted to be 36 inches (915 mm) minimum for a distance of 60 inches (1525 mm) maximum provided that multiple reduced width segments are separated by segments that are 60 inches (1525 mm) wide minimum and 60 inches (1525 mm) long minimum. 1008.2.4.2 Elevated. The clear width of accessible routes connecting elevated play components shall be 36 inches (915 mm) minimum. EXCEPTIONS: 1. The clear width of accessible routes connecting elevated play components shall be permitted to be reduced to 32 inches (815 mm) minimum for a distance of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum. 2. The clear width of transfer systems connecting elevated play components shall be permitted to be 24 inches (610 mm) minimum. 1008.2.5 Ramps Within play areas, ramps connecting ground level play components and ramps connecting elevated play components shall comply with 302.2 and 305.4. 1008.2.5.1 Ground Level. Ramp run connecting elevated play components shall have a running slope not steeper than 1:16. 1008.2.5.2 Elevated. The rise for a ramp run connecting elevated play components shall be 12 inches (305 mm) maximum. 1008.2.5.3 Handrails. Where required on ramps serving play components, the handrails shall comply with 505 except as modified by 1008.2.5.3. EXCEPTIONS: 1. Handrails shall not be required on ramps located within ground level use zones. 2. Handrail extensions shall not be required. 1008.2.5.3.1 Handrail Gripping Surfaces. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 0.95 inch (24 mm) minimum and 1.55 inches (39 mm) maximum. Where the shape of the gripping surface is non-circular, the handrail shall provide an equivalent gripping surface. 1008.2.5.3.2 Handrail Height. The top of handrail gripping surfaces shall be 20 inches (510 mm) minimum and 28 inches (710 mm) maximum above the ramp surface. 1008.2.6 Ground Surfaces Ground surfaces on accessible routes, clear floor or ground spaces, and turning spaces shall comply with 1008.2.6. Advisory 1008.2.6 Ground Surfaces. Ground surfaces must be inspected and maintained regularly to ensure continued compliance with the ASTM F 1951 standard. The type of surface material selected and play area use levels will determine the frequency of inspection and maintenance activities. 1008.2.6.1 Accessibility. Ground surfaces shall comply with ASTM F 1951 (incorporated by reference, see "Referenced Standards" in Chapter 1). Ground surfaces shall be inspected and maintained regularly and frequently to ensure continued compliance with ASTM F 1951. 1008.2.6.2 Use Zones. Ground surfaces located within use zones shall comply with ASTM F 1292 (1999 edition or 2004 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). 1008.3 Transfer Systems Where transfer systems are provided to connect to elevated play components, transfer systems shall comply with 1008.3. 1008.3.1 Transfer Systems. Where transfer systems are provided, consideration should be given to the distance between the transfer system and the elevated play components. Moving between a transfer platform and a series of transfer steps requires extended reach for some users. Designers should minimize the distance between the point where a child transfers from a wheelchair or mobility device and where the elevated play components are located. Where elevated play components are used to connect to another elevated play component instead of an accessible route, careful consideration should be used in the selection of the play components used for this purpose. 1008.3.1 Transfer Platforms Transfer platforms shall be provided where transfer is intended from wheelchairs or other mobility aids. Transfer platforms shall comply with 1008.3.1. 1008.3.1.1 Size. Transfer platforms shall have level surfaces 14 inches (355 mm) deep minimum and 24 inches (610 mm) wide minimum. 1008.3.1.2 Height. The height of transfer platforms shall be 11 inches (280 mm) minimum and 18 inches (455 mm) maximum measured to the top of the surface from the ground or floor surface. 1008.3.1.3 Transfer Space. A transfer space complying with 305.2 and 305.3 shall be provided adjacent to the transfer platform. The 48 inch (1220 mm) long minimum dimension of the transfer space shall be centered on and parallel to the 24 inch (610 mm) long minimum side of the transfer platform. The side of the transfer platform serving the transfer space shall be unobstructed. 1008.3.1.4 Transfer Supports. At least one means of support for transferring shall be provided. Figure 1008.3.1 Transfer Platforms 1008.3.2 Transfer Steps Transfer steps shall be provided where movement is intended from transfer platforms to levels with elevated play components required to be on accessible routes. Transfer steps shall comply with 1008.3.2. 1008.3.2.1 Size. Transfer steps shall have level surfaces 14 inches (355 mm) deep minimum and 24 inches (610 mm) wide minimum. 1008.3.2.2 Height. Each transfer step shall be 8 inches (205 mm) high maximum. 1008.3.2.3 Transfer Supports. At least one means of support for transferring shall be provided. Advisory 1008.3.2.3 Transfer Supports. Transfer supports are required on transfer platforms and transfer steps to assist children when transferring. Some examples of supports include a rope loop, a loop type handle, a slot in the edge of a flat horizontal or vertical member, poles or bars, or D rings on the corner posts. Figure 1008.3.2 Transfer Steps 1008.4 Transfer Components Ground level play components on accessible routes and elevated play components on accessible routes shall comply with 1008.4. 1008.4.1 Transfer Steps. Where provided, transfer steps shall be permitted to use the exceptions in 1008.4.1. 1008.4.1.1 Size. Transfer steps shall have level surfaces 14 inches (355 mm) deep minimum and 24 inches (610 mm) wide minimum. 1008.4.1.2 Height. The height of transfer steps shall be 16 inches (405 mm) minimum and 19 inches (485 mm) maximum measured from the deck to the top of the seat surface when in the raised (load) position. Figure 1009.2.4 Pool Lift Seat Height 1009.2.5 Footrests and Armrests. Footrests shall be provided and shall not have the seat. If provided, the armrest positioned opposite the water shall be removable or shall fold clear of the seat when the seat is in the raised (load) position. EXCEPTION: Footrests shall not be required on pool lifts provided in spas. 1009.2.7 Operation. The lift shall be capable of unassisted operation from both the deck and water levels. Controls and operating mechanisms shall be unobstructed when the lift is in use and shall comply with 309.4. Advisory 1009.2.7 Operation. Pool lifts must be capable of unassisted operation from both the deck and water levels. This will permit a person to call the pool lift when the pool lift is in the opposite position. It is extremely important for a person who is swimming alone to be able to call the pool lift when it is in the up position so he or she will not be stranded in the water for extended periods of time awaiting assistance. The requirement for a pool lift to be independently operable does not preclude assistance from being provided. 1009.2.8 Submerged Depth The lift shall be designed so that the seat will submerge to a water depth of 18 inches (455 mm) minimum below the stationary water level. Figure 1009.2.8 Pool Lift Submerged Depth 1009.2.9 Lifting Capacity Single person pool lifts shall have a weight capacity of 300 pounds. (136 kg) minimum and be capable of sustaining a static load of at least one and a half times the rated load. Advisory 1009.2.9 Lifting Capacity. Single person pool lifts must be capable of supporting a minimum weight of 300 pounds (136 kg) and sustaining a static load of at least one and a half times the rated load. Pool lifts should be provided that meet the needs of the population they serve. Providing a pool lift with a weight capacity greater than 300 pounds (136 kg) may be advisable. 1009.3 Scaled Entrances Sloped entries shall comply with 1009.3. Advisory 1009.3 Sloped Entries. Personal wheelchairs and mobility devices may not be appropriate for submerging in water. Some may have batteries, motors, and electrical systems that when submerged in water may cause damage to the personal mobility device or wheelchair or may contaminate the pool water. Providing an aquatic wheelchair made of non-corrosive materials and designed for access into the water will protect the water from contamination and avoid damage to personal wheelchairs or other mobility aids. 1009.3.1 Sloped Entries Sloped entries shall comply with Chapter 4 except as modified in 1009.3.1 through 1009.3.3. EXCEPTION: Where sloped entries are provided, the surfaces shall not be required to be slip resistant. 1009.3.2 Submerged Depth Sloped entries shall extend to a depth of 24 inches (610 mm) minimum and 30 inches (760 mm) maximum below the stationary water level. Where landings are required by 405.7, at least one landing shall be located 24 inches (610 mm) minimum and 30 inches (760 mm) maximum below the stationary water level. EXCEPTION: In wading pools, the sloped entry and landings, if provided, shall extend to the deepest part of the wading pool. Figure 1009.3.2 Sloped Entry Submerged Depth 1009.3.3 Handrails At least two handrails complying with 505 shall be provided on the sloped entry. The clear width between required handrails shall be 33 inches (840 mm) minimum and 38 inches (965 mm) maximum. EXCEPTIONS: 1. Handrail extensions specified by 505.10.1 shall not be required at the bottom landing serving a sloped entry. 2. Where a sloped entry is provided for wave action pools, leisure rivers, sand bottom pools, and other pools where user access is limited to one area, the handrails shall not be required to comply with the clear width requirements of 1009.3.3. 3. Sloped entries in wading pools shall not be required to provide handrails complying with 1009.3.3. If provided, handrails on sloped entries in wading pools shall not be required to comply with 505. Figure 1009.3.3 Handrails for Sloped Entry 1009.4 Transfer Walls Transfer walls shall comply with 1009.4. 1009.4.1 Clear Deck Space A clear deck space of 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum with a slope not steeper than 1:48 shall be provided at the base of the transfer wall. Where one grab bar is provided, the clear deck space shall be centered on the grab bar. Where two grab bars are provided, the clear deck space shall be centered on the clearance between the grab bars. Figure 1009.4.1 Clear Deck Space at Transfer Walls 1009.4.2 Height The height of the transfer wall shall be 16 inches (405 mm) minimum and 19 inches (485 mm) maximum measured from the deck to the top of the seat surface when in the raised (load) position. Figure 1009.4.2 Pool Lift Seat Height 1009.4.3 Wall Depth and Length The depth of the transfer wall shall be 12 inches (305 mm) minimum and 16 inches (405 mm) maximum. The length of the transfer wall shall be 60 inches (1525 mm) minimum and shall be centered on the clear deck space. Figure 1009.4.3 Depth and Length of Transfer Walls 1009.4.4 Surface Surfaces of transfer walls shall not be sharp and shall have rounded edges. 1009.4.5 Grab Bars At least one grab bar complying with 609 shall be provided on the transfer wall. Grab bars shall be perpendicular to the pool wall and shall extend the full depth of the transfer wall. The top of the gripping surface shall be 4 inches (100 mm) minimum and 6 inches (150 mm) maximum above transfer walls. Where one grab bar is provided, clearance shall be 24 inches (610 mm) minimum on both sides of the grab bar. Where two grab bars are provided, clearance between grab bars shall be 24 inches (610 mm) minimum. EXCEPTION: Grab bars on transfer walls shall not be required to comply with 609.4. Figure 1009.4.5 Grab Bars for Transfer Walls 1009.5 Transfer Systems Transfer systems shall comply with 1009.5. 1009.5.1 Transfer Platform A transfer platform shall be provided at the head of each transfer system. Transfer platforms shall provide 19 inches (485 mm) minimum clear depth and 24 inches (610 mm) minimum clear width. Figure 1009.5.1 Size of Transfer Platform 1009.5.2 Transfer Space A transfer space of 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum with a slope not steeper than 1:48 shall be provided at the base of the transfer platform surface and shall be centered along a 24 inch (610 mm) minimum side of the transfer platform. The side of the transfer platform serving the transfer space shall be unobstructed. Figure 1009.5.2 Clear Deck Space at Transfer Platform 1009.5.3 Height The height of the transfer platform shall comply with 1009.4.2. 1009.5.4 Transfer Steps Transfer step height shall be 8 inches (205 mm) maximum. The top of the bottom tread shall extend to a water depth of 18 inches (455 mm) minimum below the stationary water level. Advisory 1009.5.4 Transfer Steps. Where provided, the height of the transfer step should be minimized to decrease the distance an individual is required to step up or move down to reach the next step to gain access. Figure 1009.5.4 Transfer Steps 1009.5.5 Surface The surface of the transfer system shall not be sharp and shall have rounded edges. 1009.5.6 Size Each transfer step shall have a tread clear depth of 14 inches (355 mm) minimum and 17 inches (430 mm) maximum and shall have a tread clear width of 24 inches (610 mm) minimum. Figure 1009.5.6 Size of Transfer Steps 1009.5.7 Grab Bars At least one grab bar on each transfer step and the transfer platform or a continuous grab bar serving each transfer step and the transfer platform shall be provided. Where a grab bar is provided on each step, the tops of gripping surfaces shall be 4 inches (100 mm) minimum and 6 inches (150 mm) maximum above each step and transfer platform. Where a continuous grab bar is provided, the top of the gripping surface shall be 4 inches (100 mm) minimum and 6 inches (150 mm) maximum above the step nosing and transfer platform. Grab bars shall comply with 609 and be located on at least one side of the transfer system. The grab bar located at the transfer platform shall not obstruct transfer. EXCEPTION: Grab bars on transfer systems shall not be required to comply with 609.4. Figure 1009.5.7 Grab Bars 1009.6 Pool Stairs Pool stairs shall comply with 1009.6. 1009.6.1 Pool Stairs Pool stairs shall comply with 504. EXCEPTION: Pool step riser heights shall not be required to be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum provided that riser heights are uniform. 1009.6.2 Handrails The width between handrails shall be 20 inches (510 mm) minimum and 24 inches (610 mm) maximum. Handrail extensions required by 505.10.3 shall not be required on pool stairs. 1010 Shooting Facilities with Firing Positions 1010.1 Turning Space A circular turning space 60 inches (1525 mm) diameter minimum with slopes not steeper than 1:48 shall be provided at shooting facilities with firing positions.







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