

must provide a wall return inlet in the swimout for circulation. A permanent dark contrasting colored band of tile shall be installed at the intersection of the pool wall and the swimout and must extend 2 inches (51 mm) on the horizontal and vertical surfaces. Tile must be slip resistant. Bullnose tile may be substituted and installed in accordance with Section 454.1.2.5.3 above.

**454.1.2.5.5 Handrails and grabrails.** Handrails shall be provided for all stairs, shall be anchored in the bottom step and the deck. Where “figure 4” deck-mounted-type handrails are used, they shall be anchored in the deck and extend laterally to any point vertically above the bottom step. Grabrails must be mounted in the pool deck at each side of recessed steps. Handrails and grabrails shall extend between 28 and 40 inches (711 mm and 1016 mm) above the step edge and deck. Where stairs are used as an access point between a sun shelf and pool area, a handrail shall be provided. The hand rail shall be anchored into the bottom step and the sun shelf floor. Where such stairs are inset into the sun shelf, a handrail shall be placed adjacent to each edge of the sun shelf.

**454.1.2.5.6 Disabled access.** Permanent or portable steps, ramps, handrails, lifts or other devices designed to accommodate handicapped individuals in swimming pools may be provided. Excluding all ADA pool access area(s) and their clear deck area(s), the height of the pool wall above wet deck around the remainder of pool perimeter shall comply with Sections 454.1.3.1.2 or 454.1.8.5. Lifts mounted into the pool deck shall have a minimum 4-foot-wide (1219 mm) deck behind the lift mount.

**454.1.2.6 Obstructions.** The pool water area shall be unobstructed by any type structure unless justified by engineering design as a part of the recirculation system. Engineering design and material specifications shall show that such structures will not endanger the pool patron, can be maintained in a sanitary condition and will not create a problem for sanitary maintenance of any part of the pool, pool water, or pool facilities. Structures in accord with the above shall not be located in a diving bowl area or within 15 feet (4572 mm) of any pool wall.

**Exceptions:**

1. Stairs, ladders and ramps, necessary for entrance/exit from the pool are not considered obstructions.
2. Underwater seat benches may be installed in areas less than 5 feet (1524 mm) deep. Bench seats must be 14 to 18 inches (356 to 457 mm) wide and must have a dark contrasting tile marking on the seat edge extending 2 inches (51 mm) on the horizontal and vertical surface. Tile shall be slip resistant. Bullnose tile may be substituted and installed in accordance with Section 454.1.2.5.3. Vinyl liner, stainless

steel and fiberglass pools may use other material for the bench edge marking as detailed in Section 454.1.2.3.1, Item 7, provided the material is permanently secured, dark in color, nonfading and slip resistant. Benches shall not protrude into the 15-foot (4572 mm) clearance requirement of Section 454.1.2.6. The bench shall not protrude into the diving bowl.

3. A sun shelf may be installed in pool areas with no more than 4 feet (1219 mm) of water depth, or less, except where the entire sun shelf transitions to steps, where the depth at the bottom of the steps can exceed 4 feet (1219 mm). A sun shelf must have the same markings at the edge as a bench. A sun shelf shall not protrude into the diving bowl. A sun shelf must additionally comply with Section 454.1.2.8.
4. Furniture that is non-corrosive, will not introduce contaminants into the pool water, and is acceptable to the health department may be placed in a pool. Means shall be taken to protect finish surfacing of the pool shell that is in contact with the furniture.

**454.1.2.7 Diving areas.** Diving facilities shall meet the minimum requirements of the FINA dimensions for diving facilities in accordance with the 2021 FINA Handbook and include the following

1. Diving boards or platforms with heights of less than the established standard shall meet the dimensional requirements of the next greater height.
2. Diving boards, platforms and ladders shall have a nonabsorbent, slip-resistant finish and be of sufficient strength to safely carry the anticipated loads. Diving equipment 1 meter and greater shall have guard rails which extend to the edge of the pool wall. All diving boards over 21 inches (533 mm) from the deck shall be provided with a ladder. Diving boards or platforms shall not be installed on curved walls where the wall enters into the defined rectangular diving area specified in this section. Adjacent platform and diving boards shall be parallel.
3. The location of pool ladders shall be such that the distance from the ladder to any point on a diving board or platform centerline is not less than the plummet to side wall dimension (b) indicated in the FINA standards. Trampoline-type diving facilities are prohibited.
4. Diving targets may be installed in accordance with FINA standards.

**454.1.2.8 Sun shelves.**

**454.1.2.8.1 Sun shelf dimensional requirements.** Sun shelf areas must be a minimum of 20 inches (508 mm) wide and provide a minimum of 10 square feet (0.93 m<sup>2</sup>) of horizontal surface adjoining on the edge of the pool over a distance of not less than 3

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3.A sun shelf may be installed in pool areas with no more than 4 feet (1219 mm) of water depth, or less, except where the entire sun shelf transitions to steps, where the depth at the bottom of the steps can exceed 4 feet (1219 mm). Where the depth at the bottom of the steps exceeds 5 feet (1524 mm), depth and no dive markers shall be installed along the sun shelf edge in accordance with 454.1.2.8.2.

**454.1.2.6 Obstructions. The pool water area shall be unobstructed ...**

**Exceptions:**

...

**3. ... A sun shelf must have a dark contrasting slip resistant tile marking at the edge of the shelf and the pool wall extending 4 inches (102 mm) from the horizontal shelf edge surface. Additionally, a 2 inch (51 mm) contrasting tile line is required on the vertical pool wall at the edge of the shelf. Vinyl liner, stainless steel and fiberglass pools may use other material for the sun shelf edge marking as detailed in Section 454.1.2.3.1, Item 7, provided the material is permanently secured, dark in color, nonfading and slip resistant. When the edge of a sun shelf uses stairs as a transition, the sun shelf edge tile markings shall comply with step edge requirements as provided in Section 454.1.2.5.3. the same markings at the edge as a bench. ...**

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**454.1.2.6 Obstructions (Exception 3):**

A sun shelf may be installed in pool areas with no more than 4 feet (1219 mm) of water depth, or less, except where **the entire** sun shelf transitions to steps, where the depth at the bottom of the steps can exceed 4 feet (1219 mm).

No change to the remaining text

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3. A sun shelf may be installed in pool areas with no more than 4 feet (1219 mm) of water depth, or less, except where the entire sun shelf transitions to steps, where the depth at the bottom of the steps can exceed 4 feet (1219 mm). A sun shelf must have the same markings at the edge as a bench. A sun shelf shall not protrude into the diving bowl. A sun shelf must additionally comply with Section 454.1.2.8.