

# Pool Resurfacing Acknowledgement Form

Revised 7/25

## **454.1.10 Resurfacing.**

**454.1.10.1 Repairs or alterations of pool structure and equipment.** Replacement of the pool or spa shell is considered to be construction of a new facility and shall be processed as such. Resurfacing the pool interior to original nontoxic, slip-resistant and smooth specifications is considered a repair or alteration. Equivalent replacement of equipment is not considered a repair or alteration. The following items shall be addressed during resurfacing projects:

**454.1.10.1.1** The lip of the gutter must be leveled to within 1/4 inch (6.4 mm) between the highest and lowest point and the downward slope from the lip to the drain must be maintained as originally designed or increased but shall not exceed new construction standards. The gutter surfaces shall be made to comply with Section 454.1.6.5.3.1.3.

**454.1.10.1.2** Tile step markings must be installed meeting the requirements of Section 454.1.2.5.3.

**454.1.10.1.3** Where applicable, the slope break marking must be installed meeting the requirements of Section 454.1.2.2.3.2 and safety line must be installed 2 feet (610 mm) before the marking.

**454.1.10.1.4** Depth markers and NO DIVING markers must be installed in accordance with Section 454.1.2.3.

**454.1.10.1.5** The pool ladder must have a 3 to 6 inch (76 to 152 mm) clearance from the pool wall. New cross-braced ladder(s) shall be installed in place of noncross-braced ladder(s) in conformance with Section 454.1.2.5.1 during a pool resurfacing.

**454.1.10.1.6** Should resurfacing works affect the step riser heights, no riser shall exceed 12 inches (305 mm) for pools and 12 inches (305 mm) for spas, and the intermediate risers shall be made uniform.

**454.1.10.1.7** Step treads that protrude from the pool wall shall be removed and replaced with a crossbraced ladder or reconstructed to meet the requirements of Section 454.1.2.5.1 or 454.1.2.5.2.

**454.1.10.1.8** Handrails and grabrails that do not meet the requirements of Section 454.1.2.5.5 shall be brought into compliance with Section 454.1.2.5.5 or removed if not needed for compliance with Section 454.1.2.5.

**454.1.10.1.9** If gutter grates are replaced, the new gutter grates shall have a total open surface area to meet or exceed the designed flow rate of the pool.

**454.1.10.1.10** All elevated above-grade concrete pool walls and floors shall have waterproofing/ dampproofing installed prior to the final surface application.

**454.1.2.2.3.2** Any transition in floor slope shall occur at a minimum of 5 feet (1524 mm) of water depth. A slope transition must have a 2 to 6 inch (51 to 152 mm) wide dark contrasting tile marking across the bottom and must extend up both sides of the pool at the transition point. The marking shall be continuous except for recessing grouting. A slope transition must have a safety line mounted by use of recessed cup anchors, 2 feet (610 mm) before the contrasting marking, towards the shallow end. The safety line shall have visible floats at maximum 7-foot (2134 mm) intervals.

## **454.1.2.3 Markings.**

**454.1.2.3.1 Depth and markings.** Depth and markings shall meet the following criteria:

1. The minimum water depth shall be 3 feet (914 mm) except in sun shelves, wading pools, water-activity pools, and zero entry areas.

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2. Permanent depth markings followed by the appropriate full or abbreviated words “FEET,” “FT,” or “INCHES,” “IN,” shall be installed in minimum 4-inch-high (102 mm) numbers and letters on a contrasting background. Depth markers shall indicate the actual pool depth, within 3 inches (76 mm), at normal operating water level when measured 3 feet (914 mm) from the pool wall.

3. At a minimum, the markings shall be located on both sides of the pool at the shallow end, slope break, deep-end wall and deep point (if located more than 5 feet (1524 mm) from the deep-end wall). Depth markings shall be legible from inside the pool and also from the pool deck. The maximum perimeter distance between depth markings is 25 feet (7620 mm). Pool size and geometry may necessitate additional depth marking placements about all sides of the pool to meet this requirement.

4. When a curb is provided, the depth markings shall be installed on the inside and outside or top of the pool curb. When a pool curb is not provided, the depth markings shall be located on the inside vertical wall at or above the water level and on the edge of the deck within 2 feet (610 mm) of the pool water. When open type gutter designs are utilized, depth markers shall be located on the back of the gutter wall. When a coping stone with curved or angled underside is provided, the depth markings may be installed on the curved or angled coping underside, and outside or top of the pool curb.

5. When deck level perimeter overflow systems are utilized, additional depth marking signs shall be posted nearby or placed on adjacent fencing or walls and the size shall be increased so they are recognizable from inside the swimming pool. Alternatively, tile depth markers may be placed at the top of the pool wall just under the water level. Depth markers placed on the pool deck shall be within 3 feet (914 mm) of the water.

6. Those areas of the pool that are not part of an approved diving bowl shall have dark contrasting tile, 4-inch-high (102 mm) “NO DIVING” markings installed along the perimeter of the pool on the top of the pool curb or deck within 2 feet (610 mm) of the pool water with a maximum perimeter distance of 25 feet (7620 mm) between markings. A 6-inch (152 mm) tile with a 4-inch (102 mm) or larger red, international “NO DIVING” symbol may be substituted for the “NO DIVING” markings. “NO DIVING” markings are not required within the swimming pool.

7. All markings shall be tile, except that pools constructed of fiberglass, thermoplastic or stainless steel may substitute other type markings when it can be shown that said markings are permanent and will not fade over time. This exemption does not extend to concrete pools that are coated with fiberglass. Tile alternative examples include stone or manufactured plaques with engraved or sandblasted numbers and characters with permanent paint. Permanent appliques may be used for fiberglass, thermoplastics or stainless steel pools. All markings installed on horizontal surfaces shall have a slip-resistant finish. Markings shall be flush with the surrounding area where placed and recessed if necessary to provide a smooth finish that will avoid creation of an injury hazard to bathers. Pools that are not conducive to tile can employ other equivalent markings as stated above.

**454.1.2.5.1 Ladders.** Ladders shall be of the cross braced type and shall be constructed of corrosion resistant materials and be securely anchored into the pool deck. Clearance between the ladder and pool wall shall be between 3 to 6 inches (76 mm to 152 mm). Ladders shall extend at least 28 inches (711 mm) and no more than 40 inches (1016 mm) above the pool deck. Ladder bottom braces shall have intact end caps or bumpers that rest firmly against the pool wall. The top rung of the ladder shall be at or below the water level on open-gutter pools and not more than 12 inches (305 mm) below the deck or curb top on all other type pools.

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**454.1.2.5.2 Recessed treads.** Recessed treads shall be installed flush with the wall and shall be a minimum 5 inches (127 mm) wide, 10 inches (254 mm) long, with a maximum vertical distance of 12 inches (305 mm) between treads.

**454.1.2.5.3 Stairs.** Stairs shall have a minimum tread width of 10 inches (254 mm) and a maximum width of 48 inches (1219 mm) for a minimum tread length of 24 inches (610 mm) and a maximum riser height of 10 inches (254 mm). Treads and risers between the top and bottom treads shall be uniform to within 1/2 inch (12.7 mm) in width and height. The riser heights shall be measured at the marked step edges and the differences in elevation shall be considered the riser heights. The front 3/4 to 2 inches (19.1 to 51 mm) of the tread and the top 2 inches (51 mm) of the riser shall be tile, dark in color, contrasting with the interior of the pool. Tile shall be slip resistant. Bullnose tile that is slip resistant may be used when the 3/4-inch (19 mm) segment is placed on the tread or horizontal surface and the 2-inch (51 mm) segment is placed on the riser or vertical surface. Where the gutter is used as the top step, the tile on the gutter for the width of the steps shall be slip resistant. Vinyl liner and fiberglass pools may use other material for the step edge marking, provided the material is permanent, permanently secured, dark in color, nonfading and slip resistant.

**Exception:** Where a gutter is used as a top step, the gutter's 2-inch slope from lip to the drain shall be continuous for the full length of the stairs, and the riser from the gutter to the next tread need not be uniform with the remaining risers and treads.

**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 Access.** All pools shall have a means of access every 75 feet (22 860 mm) of pool perimeter with a minimum of two, located so as to serve both ends of the pool, except for swimming pools with eight (8) or more lap lanes, which shall have means of access every 90 feet (27 432 mm) of pool perimeter in the lap lane area. In addition, an access point shall be provided at the deep portion, if the deep portion is not at one end of the pool. When the deep portion of the pool is over 30 feet (9144 mm) wide, both sides of this area shall have a means of access. Access shall consist of ladders, stairs, recessed treads, sun shelves or swimouts and may be used in combination. All treads shall have a slip-resistant surface.

Acknowledged and signed at time of permit issuance by:

Contractor of Record \_\_\_\_\_ License # \_\_\_\_\_ Date \_\_\_\_\_  
Print Name

Contractor Signature \_\_\_\_\_  
Signature