



County of Santa Cruz

Health Services Agency – Environmental Health



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EnvironmentalHealth@santacruzcounty.us

POOL AND SPA RESURFACING AND DECK CHECKLIST

The Santa Cruz County Environmental Health Division requires that public pool or spa operators apply for a Swimming Pool and Spa Minor Remodel Plan Review when conducting pool or spa resurfacing and/or deck work. Work on commercial pools must be conducted by a contractor with proper licensing depending on the scope of work. Most pool structural and equipment work can be conducted under a C53 pool contractor license.

Include the following with your submittal:

- Plan review Application
[EHD 151CP- Facility Evaluation or Plan Review App 2-2020 1.pdf \(scceh.com\)](#)
- Swimming Pool and Spa Anti-Entrapment Repair and Resurfacing Form
[EHS 470 Swimming Pool and Spa Minor Remodel Plan Review 9-2022.pdf \(scceh.com\)](#)
- Complete scope of work
- Diagram of existing vs proposed changes to the pool or spa
(Include distance between anti-entrapment covers and step and handrail dimensions)

The following must occur during resurfacing of a pool or spa (Check when addressed in the submittal):

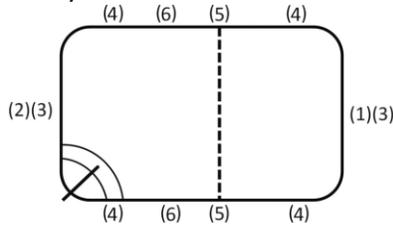
Surfaces

- The pool surface must be **white** in color. Spas may be finished in a light color other than white when approved by this office. This office recommends a light reflectance value of 55% or more.
- The surface must be lined with a waterproof smooth material that is able to withstand repeated brushing, scrubbing and cleaning procedures. PAINTING OR EPOXY IS NOT ALLOWED. Resurfacing with a material other than plaster must be reviewed by this office. Provide information on the materials to be used. The interior finish shall completely line the pool to the tile lines, coping, or cantilevered deck.

Markings

- Contrast lines shall be provided in the following areas:
 1. At the edge of any steps
 2. The edges of benches in spas
 3. Lane markings (width cannot exceed 12 inches)
 4. Tiles installed at the water line (white and light colors are not accepted)
 5. A slip resistant band (4-6 inches wide) across the pool at the 4 ½ foot depth mark for **pools over five feet deep**
- Depth markers (deck and water line)
 1. Shall be provided on both sides of the swimming pool at the shallowest and deepest depths, at the breaks in the slope, on both ends of the pool and along the perimeter of the pool at distances not to exceed 25 feet.
 2. Spas and wading pools shall have a minimum of two depth markers.
 3. Shall be marked in units of feet and inches; these can be abbreviated as "FT" and "IN" respectively. Numerals shall be a minimum of four inches in height and of a contrasting color.

4. Water depth is measured from the floor of the pool to the middle of the tile line on pools with skimmers. The depth shall be measured to the rim of the gutter for pools with an overflow system. Markers should be accurate to the nearest six inches.



Maximum depth.

Minimum depth.

Each end of pool.

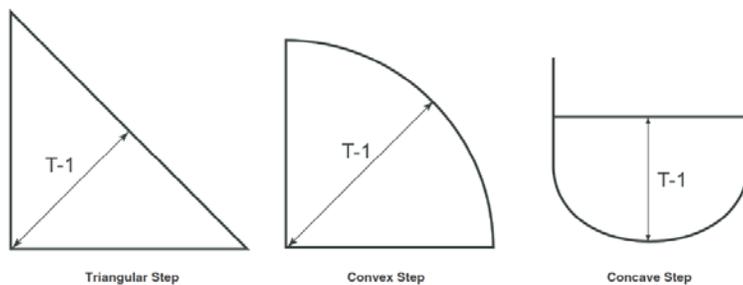
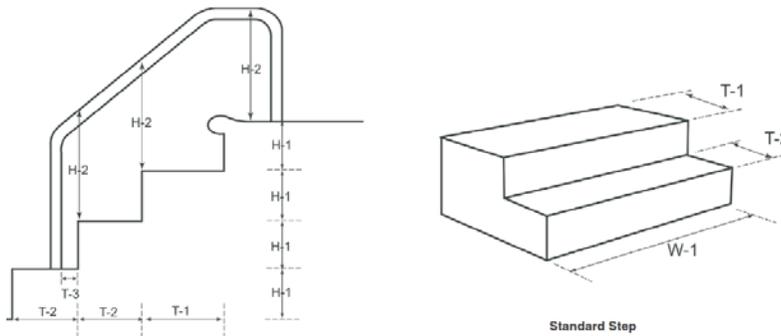
Both sides at the shallowest and deepest part of pool.

At the break in the bottom slope between the shallow and deep end.

Along the perimeter of the pool at distances not to exceed 25 feet.

Stairs/ Access Points

- Means of entry and exit are required if the depth is over one foot. Pools with more than one shallow end shall have stairs at each shallow end.
- Stair risers shall be uniform in height and with a height between 6 and 12 inches. Each step tread shall comply with Figure 31B-7, and Table 31B-7 of Chapter 31B, Title 24, California Building Code as follows:



DIMENSIONS	T-1 STANDARD	T-1 TRIANGULAR, CONCAVE, CONVEX	T-2	T-3	W-1	H-1	H-2
Minimum	14"	21"	12"	3"	24"	6"	28"
Maximum	18"	24"	16"	—	—	12"	36"

- Recessed step risers shall be uniform (maximum 12 inches). Treads shall be a minimum of five inches and path width of at least 14 inches. The first riser can be measured from the deck to the first tread.
- Provide a handrail over all stairs extending from the deck to the bottom step tread. The upper railing surface shall be between 28 to 36 inches above the deck and each step tread. Spas shall have two handrails. (Refer to ADA for additional requirements). Handrails shall not extend beyond the steps.

- All swimming pools with platforms or diving boards must be reviewed for compliance with the pool code. Platforms and diving boards shall conform to the USA Diving Rules and Codes.

Coping and Decking

- Replacement coping must extend over the pool wall one to two inches and be no thicker than 2 ½ inches.
- Depth markers shall be located on coping or deck not more than three feet from water.
- No Diving Markers (with the universal red circle with a slash through it superimposed over a diving figure) shall be installed whenever the water depth is **six feet** or shallower. Markers shall be slip resistant and of a material that is resistant to weathering; these must be located adjacent to depth markers on the deck.
- There must be at least a four-foot deck around the perimeter of the pool and that extends four feet around any fixed disabled access assistance device.
- The pool deck surface shall have a slope of no less than 1% (1/8 inch per foot) but no more than 2% (1/4 inch per foot) away from the pool to a deck drainage system.
- Any deck material other than concrete must be reviewed by this office. Indoor/ outdoor carpeting, Astroturf or similar material is not approved for swimming pool, spa, or wading pool decks.

Anti-Entrapment / Safety Requirements

- Pool anti-entrapment covers must be compliant with APSP-16 or successor standards and be rated to meet or exceed the flow through the system. Use the pump curve to determine actual output for the system. A TDH of 60 at most should be used to determine GPM output from the pump for the recirculation system. A TDH of 40 should be used when rating a spa jet pump. Under ideal conditions, actual TDH can be determined by use of a vacuum and pressure gauge. The following calculation can be used to determine head loss:

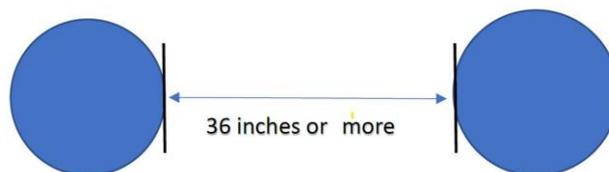
$$\text{(pressure reading psi X 2.31) + (vacuum reading Hg X 1.13) = TDH}$$

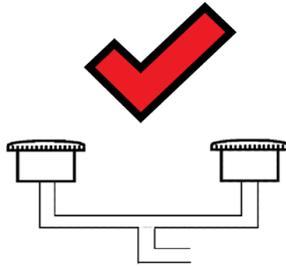
The highest output at (60TDH or 40TDH) must be used when evaluating a variable speed pump. Do not use the required turnover as your pump must meet or exceed the turnover rate.

- Installation of anti-entrapment covers must be conducted by authorized personnel and be installed in accordance with manufacturer specifications; anti-entrapment work must be certified on a California Anti-Entrapment Certification Form once complete:

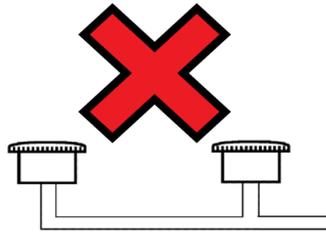
[Anti Entrapment Devices and Systems for Public Pools and Spas Compliance \(scceh.com\)](http://scceh.com)

- Pools with a single bottom suction outlet must split the line upon conducting resurfacing work. The line split must be hydraulically balanced, and pipe separated so as to provide a 3 foot minimum separation between cover edge to cover edge.





CORRECT



WRONG

- Equalizer line suction outlets must be hydraulically split or can be eliminated if an auto fill line with proper back siphonage prevention is present.
- The split bottom suction outlet lines must be upsized from the T to comply with current pipe velocity requirements of 6FPS max.
- Provide a vacuum and pressure gauge on the recirculation system.
- If not already provided, a clearly labeled emergency shut-off switch (for the shut-off of both the recirculation and the aeration and/or jet system) must be installed adjacent to the spa with an audible alarm.

Changes in Other Equipment

1. Any changes to plumbing or other equipment require prior approval from this office. Additional fees may apply.

Inspections

1. The pool contractor must contact this Agency, prior to plastering, applying fiberglass or otherwise finishing the pool, to request inspection of plumbing, sumps (if required), to verify step adjustments and review tile work. Have anti-entrapment covers on site for review.
2. Final inspection when work is complete.
*Additional inspections may be required to gain compliance.

Plan review documents and questions can be e-mailed to ConsumerPlanCheck@santacruzcounty.us . An invoice will be generated upon receipt. Plan submittals will not be reviewed until payment is received.