



Changes to California Code of Regulations, Title 24, Part 2, Chapter 31B  
Public Pools

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\*Replaces different sections

\*Modified language is underlined

Original text	Changes/Additions made
<b>SCOPE</b>	
<p>Sec. 3101B Scope.</p> <p>The provisions of this Chapter shall apply to the construction, installation, alteration, addition, relocation, replacement or use of any public swimming pool and to its appurtenant auxiliary areas and facilities and to its mechanical equipment and related piping.</p> <p>NOTE NO. 1: Examples of public pools include those located in a:</p> <ol style="list-style-type: none"> <li>(1) commercial building,</li> <li>(2) hotel,</li> <li>(3) motel,</li> <li>(4) resort,</li> <li>(5) auto and trailer park,</li> <li>(6) auto court,</li> <li>(7) mobilehome park,</li> <li>(8) campground,</li> <li>(9) apartment house,</li> <li>(10) condominium,</li> <li>(11) townhouse,</li> <li>(12) home owner association,</li> <li>(13) club,</li> <li>(14) community building,</li> <li>(15) public or private school,</li> <li>(16) gymnasium, and</li> <li>(17) health establishment.</li> </ol>	<p style="text-align: center;"><b>SECTION 3101B</b></p> <p style="text-align: center;"><b>SCOPE</b></p> <p>The provisions of this chapter shall apply to the construction, installation, <u>renovation</u>, alteration, addition, relocation, replacement, or use of any public pool; and to its ancillary facilities, mechanical equipment and related piping. Public pools include those located in <u>or designated as the following</u>: commercial building, hotel, motel, resort, <u>recreational vehicle or mobile home</u> park, campground, apartment house, condominium, townhouse, homeowner association, club, community building <u>or area</u>, public or private school, health <u>club or</u> establishment, <u>water park, swim school, medical facility, bed and breakfast, licensed day care facility, recreation and park district and municipal pools.</u></p>
<b>DEFINITIONS</b>	
<p>Sec. 3102B Definitions.</p> <p>For the purpose of this Chapter, the following terms shall have the meaning indicated:</p>	<p style="text-align: center;"><b>SECTION 3102B</b></p> <p style="text-align: center;"><b>DEFINITIONS</b></p>
<p><b>Auxiliary Area</b>-A public dressing, locker, shower or toilet area or building space intended to be used by bathers.</p>	<p style="text-align: center;"><u><b>ANCILLARY FACILITY</b></u>-is any area used in conjunction with or for the operation of a pool such as <u>public dressing rooms, lockers, shower or bathroom areas, drinking fountains, equipment room, pool deck area, pool enclosure or building space that is intended to be used by pool users.</u></p>

<b>Backwash</b> -The process of thoroughly cleansing the filter media and/or elements and the contents of the filter vessel.	<b>BACKWASH</b> is the process of <u>reversing the flow of water through the filter to thoroughly clean the filter media and/or elements and remove the debris from the contents of the filter vessel.</u>
<b>Bather</b> -A person using a pool and adjoining deck areas for the purpose of water sports such as diving, swimming, wading, or related activities.	REMOVED
ADDED	<b>CANTILEVERED DECKING</b> is the part of the deck <u>which extends over a top edge of a pool or spa.</u>
<b>Clean Pool Water</b> - Pool water that is free of dirt, oils, scum, algae, floating materials, or other visible organic and inorganic materials that would sully the water.	<b>CLEAN POOL WATER</b> is pool water that is free of dirt, oils, scum, algae, floating materials or visible organic and inorganic materials that would <u>pollute</u> the water.
<b>Clear Pool Water</b> - Pool water that is free from cloudiness and is transparent.	<b>CLEAR POOL WATER</b> is pool water that is free from cloudiness and is transparent.
ADDED	<b>COPING</b> is a <u>slip-resistant cap installed on the top edge of a pool or spa.</u>
<b>Corrosion-Resistant</b> -Capable of maintaining original surface characteristics under the prolonged influence of the use environment.	REMOVED
<b>Deck</b> - An area surrounding a pool which is specifically constructed or installed for use by bathers.	<b>DECK</b> is an area surrounding a pool which is specifically constructed or installed for use by <u>pool users.</u>
<b>Drain</b> A fitting or fixture, usually at or near the bottom of a pool, through which water leaves the pool normally to the recirculation pump.	REMOVED
<b>Effective Particle Size</b> - The theoretical size of sieve (in mm) that will pass 10 percent by weight of the sand.	REMOVED
ADDED	<b>DIATOMACEOUS EARTH</b> is a <u>filtering media consisting of microscopic fossilized skeletons of diatoms.</u>
ADDED	<b>EASILY CLEANABLE</b> is a characteristic of a surface or <u>material that allows removal of dirt, stains or residue by normal cleaning methods.</u>
ADDED	<b>EFFECTIVE PARTICLE SIZE</b> is the <u>theoretical size of sieve that will pass 10 percent by weight of sand.</u>

<b>Enforcing Agency</b> - Means the Health Officer or Director of Environmental Health or their designated registered sanitarian representative.	<b>ENFORCING AGENT</b> is the health officer, director of environmental health, registered <u>environmental health specialist</u> or <u>environmental health specialist trainee</u>
<b>Equipment Area</b> - An area used for pool recirculation and purification equipment and related piping appurtenances.	<b>EQUIPMENT AREA</b> is an area <u>where the recirculation system</u> and <u>all related appurtenances are located</u> .
ADDED	<b>HANDHOLD</b> is a structure located at or above the <u>water line around the perimeter of the pool wall that allows a pool user to hold onto the poolside for support</u> .
<b>Inlet</b> -A fitting or fixture through which circulation water enters the pool.	<b>INLET</b> is a fitting or fixture through which <u>recirculated</u> water enters the pool.
<b>Ladder</b> -A series of vertically separate treads or rungs either connected by vertical rail members or independently fastened to an adjacent vertical pool wall.	<b>LADDER</b> is a series of vertically separate treads or rungs either connected by vertical rail members or independently fastened to an adjacent vertical pool wall.
ADDED	<b>LIVING UNIT</b> is any building or portion thereof that <u>contains living facilities including provisions for sleeping</u> .
<b>Medical Pool</b> -A special purpose pool used by a State recognized medical institution engaged in the healing arts under the direct supervision of licensed medical personnel for treatment of the infirm.	<b>MEDICAL POOL</b> is a special-purpose pool used by a <u>State-recognized medical institution engaged in the healing arts under the direct supervision of licensed medical personnel for treatment of the infirm</u> .
ADDED	<b>MAIN DRAIN</b> is a submerged suction outlet <u>typically located at the bottom of a pool that conducts water to a recirculating pump</u> .
ADDED	<b>OUTLET</b> is a fitting or fixture through which <u>recirculated water is removed from the pool which may or may not be connected to the pump</u> .
<b>Overflow System</b> -The system which includes perimeter type overflow gutters, surface skimmers, surge or collector tanks, other surface water collective system components, and their interconnecting piping.	REMOVED
<b>Pools</b> - A constructed or prefabricated artificial basin, chamber or tank intended to be used primarily by bathers, and not for cleaning of the body or for individual therapeutic use.	REMOVED
<b>Pool Volume</b> -The amount of water, expressed in	REMOVED

gallons (liters), that a pool holds when filled.	
<p><b>Private Pool</b>-Any constructed pool, permanent or portable, which is intended for non-commercial use as a swimming pool by not more than three owner families and their guests. NOTE: A single family residence is Occupancy R-3.</p>	REMOVED
<p><b>Public Pool</b>- A pool other than a private pool.</p>	<p><u>POOL OR PUBLIC POOL</u> is an artificial basin, chamber or tank constructed or prefabricated with impermeable surfaces that is used, or intended to be used, for public swimming, diving or recreational activities but does not include individual therapeutic tubs or baths where the main purpose is the cleaning of the body. Any manmade lake or swimming lagoon with a sand beach or sand bottom is not a public pool.</p>
NEW	<p><u>PERFORMANCE STANDARD</u> is a standard that is accredited and published. Products compliant with a standard may be listed by any authorized nationally recognized testing laboratory.</p>
NEW	<p><u>PERIMETER OVERFLOW SYSTEM</u> is a system which includes perimeter-type overflow gutters, surge basin or similar surface water collective system components and their interconnecting piping.</p>
NEW	<p><u>PERMISSIBLE EXPOSURE LIMIT</u> is the maximum amount or concentration of a chemical that a worker may be exposed to under United States Occupational Safety and Health Administration regulations.</p>
NEW	<p><u>POOL OPERATOR or OPERATOR</u> is a person who is responsible for maintaining compliance with all requirements relating to pool operation, maintenance and safety of pool users</p>
NEW	<p><u>RADIUS OF CURVATURE</u> is the radius arc which denotes the curved surface from the point of departure from the springline of the pool to the pool bottom.</p>
NEW	<p><u>READILY ACCESSIBLE</u> is capable of being reached easily for cleaning, repair, replacement or inspection without the necessity of removing a panel, door or similar obstruction and without requiring a person to climb over or remove obstacles or to use devices such as portable ladders.</p>

NEW	<u>READILY DISASSEMBLED</u> means capable of being taken apart by hand or by using only simple tools such as a screwdriver, pliers or open-end wrench.
<b>Recessed Steps</b> A riser/tread or series of risers/treads extending down into the deck with the bottom riser or tread terminating at the pool wall (thus creating a "stair well").	<u>RECESSED STEPS</u> are a series of vertically spaced cavities in the pool wall creating riser and tread areas for <u>pool ingress and egress.</u>
<b>Recessed Treads</b> -A series of vertically spaced cavities in the pool wall creating tread areas for stepholes.	REMOVED
<b>Recirculation System</b> -The interconnected system traversed by the recirculated water from the pool until it is returned to the pool, i.e., from the pool through the collector or surge tank, recirculation pump, filters, chemical treatment, and heater (if provided), and returned to the pool.	<u>RECIRCULATION SYSTEM</u> is the <u>system of hydraulic components designed to remove, filter, disinfect and return water to the pool.</u>
NEW	<u>RIM FLOW GUTTER</u> is a perimeter overflow system in which the overflow rim is at the same elevation with the deck.
NEW	<u>SKIMMER EQUALIZER LINE</u> is a submerged suction outlet located below the waterline and connected to the body of a skimmer that prevents air from being drawn into the pump if the water level drops below the <u>skimmer weir or the skimmer is blocked by debris. A skimmer equalizer line is not a main drain.</u>
<b>Shallow Pool</b> -A pool that has a maximum depth of less than six feet.	REMOVED
<b>Slip-Resistant</b> -A rough finish that is not abrasive to the bare foot.	<u>SLIP RESISTANT</u> is a rough finish that is not abrasive to the bare foot.
<b>Steps, Recessed Steps, Ladders, And Recessed Treads</b> -Those means of entry and exit to and from the pool which may be used in conjunction with each other.	REMOVED
NEW	<u>SPA POOL OR SPA</u> is a pool that incorporates a water jet system, an aeration system or a combination of the two systems used in conjunction with heated water.
NEW	<u>SPECIAL PURPOSE POOL</u> is a pool constructed exclusively for a specific purpose; such as instruction, diving, competition or medical treatment.

NEW	<u>SPLASH ZONE</u> is the maximum distance the water from a spray ground can project horizontally.
NEW	<u>SPRAY GROUND</u> is a pool with no standing water in the splash zone and consists of a surge basin with a recirculation system from which water is directed through water features for contact with pool users.
NEW	<u>SPRINGLINE</u> is the point from which the pool wall breaks from vertical and begins its arc in the radius of curvature.
Stairs-A series of two or more steps.	<u>STAIRS</u> are a series of two or more steps.
Step-A riser and tread.	<u>STEP</u> is a riser and tread.
NEW	<u>SUCTION OUTLET</u> is any outlet that is connected to the pump through which water is removed from the pool.
NEW	<u>SURGE BASIN</u> is a reservoir or surge trench open to the atmosphere that receives water via gravity flow from the main drain, spray ground or perimeter overflow system and from which the recirculation system operates.
NEW	<u>TEMPERED WATER</u> is water between 100°F and 110°F.
Treatment Of Water-The process of conditioning and disinfection of pool water by means of a combination of filtration and the addition of chemicals to the water.	REMOVED
Turnover Time- The period of time in hours required to circulate a volume of water equal to the pool capacity.	<u>TURNOVER TIME</u> is the maximum time allowed to circulate one complete-volume of the pool water through the recirculation system.
Uniformity Coefficient-The ratio of theoretical size of sieve (in mm) that will pass 60 percent of the sand to the theoretical size of sieve (in mm) that will pass 10 percent.	<u>UNIFORMITY COEFFICIENT</u> is the ratio of the theoretical size of a sieve in mm that will pass 60 percent of the sand to the theoretical size of a sieve in mm that will pass 10 percent of the sand.
NEW	<u>WADING POOL</u> is a pool intended to be used for wading by small children and having a maximum water depth of 18 inches (457 mm) at the deepest point.
NEW	<u>WATER FEATURE</u> means an interactive device or structure through which water is directed to the pool user such as a water fountain, water spray, dancing

	<u>water jet, waterfall, dumping bucket or shooting water cannon.</u>
<b>Water Line</b> -The water line shall be defined in one of the following ways: (a) Skimmer system-The water line shall be the midpoint of the operating range of the skimmers. (b) Overflow system-The water line shall be the top edge of the overflow rim.	<b>WATERLINE</b> shall be defined in one of the following ways: <u>1. Skimmer system.</u> The waterline shall be the midpoint of the operating range of the skimmers. <u>2. Overflow system.</u> The waterline shall be the top edge of the overflow rim.
<b>SPA POOL SPECIAL REQUIREMENTS</b>	
<b>Sec. 3103B Special Pool Classifications.</b>	<b>SECTION 3138B SPA POOL SPECIAL REQUIREMENTS</b>
<b>3103B.1 Spa Pool.</b> A spa pool is a pool, not used under medical supervision, that incorporates a water jet system, an aeration system, or a combination of the two systems, and which may also utilize artificially heated water. The surface water area of a spa pool shall not exceed 250 square feet, and the water depth shall not exceed 4 feet. NOTE: See also Section 31198B.1.2	<u><b>3138B.1 Aeration system.</b> A spa pool aeration and/or jet system shall be completely separate from the recirculation system and shall not be interconnected with any other pool.</u> <u><b>3138B.2 Maximum operating temperature.</b> The allowable water temperature of a spa pool shall not exceed 104° F (57.8° C).</u> <u><b>3138B.3 Surface area.</b> The water surface area of a spa pool shall not exceed 250 square feet (23.23 m<sup>2</sup>).</u> <u><b>3138B.4 Maximum depth.</b> The water depth in a spa pool shall not exceed 4 feet (1220 mm).</u> <u><b>3138B.5 Emergency shut off switch.</b> A clearly labeled emergency shut off switch for the control of both the recirculation system and the aeration and/or jet system shall be installed adjacent to the spa pool.</u>
<b>3103B.2 Special Purpose Pool.</b> A special purpose pool is a pool intended to be used exclusively for a single purpose, such as wading, instruction, diving, competition, or for medical treatment where a licensed professional in the healing arts is in attendance.	REMOVED
<b>3103B.3 Temporary Training Pool.</b> A temporary training pool is a pool intended to be used for instruction in swimming, having a maximum water depth of 36 inches, and so constructed as to be readily disassembled for storage or for transporting to and reassembly to its original integrity at a different location. A temporary training pool shall be limited to a maximum use of 3 months at any one geographical location during any 12 month period.	REMOVED



## WADING POOLS

**3103B.4 Wading Pool.** A wading pool is a pool intended to be used for wading by small children and having a maximum depth of 18 inches at the deepest point and a maximum depth of 12 inches at the side walls.

### SECTION 3161B WADING POOLS

1. "Public wading pool" means a pool that meets all of the following criteria:
  - 1.1 It has a maximum water depth not exceeding 18 inches (457 mm).
  - 1.2 It is a pool other than a pool that is located on the premises of a one-unit or two-unit residence, intended solely or the use of the residents or guests.
2. "Public wading pool" includes, but is not limited to, a pool owned or operated by private persons or agencies, or by state or local governmental agencies.
3. "Public wading pool" includes, but is not limited to, a pool located in an apartment house, hotel or similar setting that is intended for the use of residents or guests.
4. "Alteration" means any of the following:
  - 4.1 To change, modify or rearrange the structural parts or the design.
  - 4.2 To enlarge.
  - 4.3 To move the location of.
  - 4.4 To install a new water circulation system.
  - 4.5 To make any repairs costing fifty dollars (\$50) or more to an existing circulation system.
5. A public wading pool shall have at least two circulation drains per pump that are hydraulically balanced and symmetrically plumbed through one or more T fittings, and are separated by a distance of at least 3 feet (914 mm) in any dimension between drains.
6. All public wading pool main drain suction outlets that are under 12 inches (305 mm) across shall be covered with antivortex grates or similar protective devices. All main drain suction outlets shall be covered with grates or antivortex plates that cannot be removed except with the use of tools. Slots or openings in the grates or similar protective devices shall be of a shape, area and arrangement that would prevent physical entrapment and would not pose any suction hazard to bathers.
7. The maximum velocity in the pump suction hydraulic system shall not exceed 6 feet per second (1.8 m/s) when 100 percent of the pump's flow comes from the main drain system and any main drain suction fitting in the system is completely blocked.
8. On or after January 1, 1998, all newly constructed public wading pools shall be constructed in

	<p><u>compliance with this section.</u></p> <p>9. <u>Commencing January 1, 1998, whenever a construction permit is issued for alteration of an existing public wading pool, it shall be retrofitted so as to be in compliance with this section.</u></p> <p>10. <u>By January 1, 2000, every public wading pool, regardless of the date of original construction, shall be retrofitted to comply with this section.</u></p>
<p><b>Sec. 3104B Accessibility to the Physically Handicapped Person.</b></p> <p>Swimming pools and their appurtenances shall be in compliance with the requirements of the State Architect for access to public accommodations by physically-handicapped persons. NOTE: See Chapter 11A</p>	REMOVED
<b>PLAN REVIEW</b>	
Title 22, Chapter 20 Article 2, Section 65505	<p><u>PLAN REVIEW, PERMITS, CONSTRUCTION AND FIELD INSPECTIONS</u></p> <p>SECTION. 3103B</p> <p><u>PLAN REVIEW</u></p>
<p><b>65505. Plans and Specifications</b></p> <p>(a) A person proposing to construct, reconstruct or alter a swimming pool or auxiliary structure or equipment shall submit legible plans and specifications to the enforcing agent for review and written approval prior to commencing the work and in advance of the issuance of any building, plumbing or electrical permit.</p>	<p>3103B.1 <u>A person proposing to construct, renovate or alter a pool, ancillary facilities or equipment and appurtenances shall submit plans and specifications detailing compliance with this Chapter to the enforcing agent for review and written approval prior to commencing construction and shall first be cleared by the enforcing agent before substitution if not an exact duplicate of the units being changed or replaced. A local building department shall not issue a permit for a public pool or ancillary facility until the plans have been approved by the enforcing agent.</u></p>
<p>(b) Plans submitted for approval pursuant to this section shall be drawn to a scale of 1 centimeter equals 0.48 meters (1/4 inch equals 1 foot), except that plans for spa pools shall be drawn to a scale of 1 centimeter equals 0.12 meters (1 inch equals 1 foot).</p>	<p>3103B.2 <u>Plans submitted for approval pursuant to this section shall be drawn to a scale of 1/4 inch (6.4 mm) equals 1 foot (305 mm), except that plans for spa pools shall be drawn to a scale of 1 inch (25 mm) equals 1 foot (305 mm), unless otherwise approved by the enforcing agent.</u></p>
<p>(c) The enforcing agent may require the submission of such additional information as may be required to determine the compliance of plans and specifications</p>	<p>3103B.3 <u>The enforcing agent shall notify the person submitting the plans and specifications of approval or disapproval.</u></p>

submitted for approval.	
(d) Within 30 days of the receipt of plans and specifications, the enforcing agent shall notify the person submitting the plans and specifications of their approval or disapproval.	<u>3103B.4 The enforcing agent shall retain one copy of the approved plans and specifications and any subsequent changes or modifications. The approved plans shall be valid for a period of two years from the date of approval or as extended by the enforcing agent.</u>
<b>CONSTRUCTION</b>	
<b>Title 22, Chapter 20 Article 2, Section 65509</b>	<b>SECTION 3104B</b>
<p><b>65509. Construction</b></p> <p>(a) Swimming pools shall be constructed, reconstructed or altered in compliance with plans approved pursuant to Section 65505, unless written approval of variance from such plans is obtained from the enforcing agent.</p> <p>(b) Swimming pools shall conform to the requirements of Chapter 2-90, Title 24, Building Standards, California Administrative Code</p>	<p style="text-align: center;"><b><u>CONSTRUCTION</u></b></p> <p><u>Pools and all ancillary facilities, equipment and appurtenances shall be constructed, renovated or altered in compliance with plans approved pursuant to Section 3103B.</u></p>
<b>POOL STRUCTURE</b>	<b>SECTION 3108B</b>
<b>Sec. 3106B Pool Construction.</b>	<b><u>POOL CONSTRUCTION</u></b>
<p><b>3106B.1 Shell Structural Integrity.</b> The pool shall be designed and durably built of reinforced concrete, or material equivalent in strength, watertight, and able to withstand anticipated stresses under both full and empty conditions, taking into consideration climatic effects, geological conditions, integration of the pool with other structures, and similar factors.</p>	<p><b>3108B.1 <u>Pool shell</u></b> <u>The pool shall be built of reinforced concrete or material equivalent in strength, watertight and able to withstand anticipated stresses under both full and empty conditions taking into consideration factors such as climatic effects, geological conditions and integration of the pool with other structures.</u></p>
<p><b>3106B.2 Finish.</b> The finished pool shell shall be lined with a smooth waterproof interior finish that will withstand repeated brushing, scrubbing, and cleaning procedures. The interior pool finish shall completely line the pool to the tile lines, coping, or cantilevered deck.</p>	<p><b>3108B.2 <u>Finish.</u></b> <u>The finished pool shell shall be lined with a smooth waterproof interior finish that will withstand repeated brushing, scrubbing, and cleaning procedures. The interior pool finish shall completely line the pool to the tile lines, coping, or cantilevered deck.</u></p>
<p><b>3106B.3 Finish Color.</b> The finish color shall be white, except for:</p> <ul style="list-style-type: none"> <li>(1) lane and other required pool markings described in Section 3109B</li> <li>(2) handholds,</li> <li>(3) copings,</li> <li>(4) the top surface edges of benches, and</li> </ul>	<p><b>3108B.3 <u>Finish color.</u></b> <u>The finish color shall be white except for the following which shall be of contrasting color:</u></p> <ul style="list-style-type: none"> <li><u>1. Lane and other required pool markings described in Section 3110B;</u></li> <li><u>2. The edge of pool steps;</u></li> <li><u>3. Tiles installed at the waterline; and</u></li> <li><u>4. Tiles installed at the 4 1/2 foot (1372 mm) depth</u></li> </ul>

<p>(5) the edge of spa steps.  <b>Exception:</b> A spa pool shall be permitted to be finished in a light (pastel) color other than white when approved by the enforcing agency.</p>	<p><u>line.</u>  <b>Exception:</b> A spa pool may be finished in a light color other than white when approved by the enforcing agent.</p>
<p><b>3106B.4 Projections and Recessed Areas.</b> The surfaces of the pool shall not have any projections or recessed areas except for: handholds, recessed treads, steps, ladders, stairs, pool inlets and outlets, skimmers, and perimeter overflow systems.  <b>Exception:</b> Benches shall be permitted in a spa pool providing that the water depth over the bench does not exceed 24 inches.</p>	<p><b>3108B.4 Projections and recessed areas</b> <u>The pool shell shall not have projections or recessed areas except for pool inlets and outlets as specified in Section 3137B.</u>  <b>Exception:</b> <u>This section shall not apply to handholds, recessed steps, ladders, stairs, handrails, skimmers or perimeter overflow systems.</u></p>
<p><b>Sec. 3107B. Additional Requirements for a Temporary Training Pool.</b></p>	<p>REMOVED</p>
<p><b>3107B.1</b> A temporary training pool shall comply with this Section in addition to the provisions contained in Section.</p>	<p>REMOVED</p>
<p><b>3107B.2 Installation Site.</b> A temporary training pool shall be installed on a paved level surface extending at least 10 feet beyond all pool walls.</p>	<p>REMOVED</p>
<p><b>3107B.3 Cover.</b> The temporary training pool shall be provided with a solid cover. The cover shall be installed during periods when the pool is not open for use, and shall be secured to the pool in a manner to prevent unauthorized removal.</p>	<p>REMOVED</p>
<p><b>3107B.4 Design.</b> The pool cover shall be designed to support a uniform live load of 40 pounds per square foot. The structural design of the pool and cover shall be approved by a California registered professional engineer.</p>	<p>REMOVED</p>
<p><b>SPRAY GROUNDS</b></p>	
	<p><u>SECTION 3106B</u></p>
	<p><u>SPECIAL REQUIREMENTS FOR SPRAY GROUNDS</u></p>
<p>NEW</p>	<p><u>3106B Spray grounds. All applicable provisions of this Chapter shall apply to a spray ground unless specifically addressed in this section.</u></p>
<p>NEW</p>	<p><u>3106B.1 All parts of the spray ground shall be designed</u></p>

	<u>and constructed so that there are no safety hazards.</u>
NEW	<u>3106B.2 Walking surface. A minimum four-foot wide walking surface shall extend around the perimeter of the splash zone of a spray ground.</u>
NEW	<u>3106B.3 The recirculation system shall be in operation at all times that the spray ground is open for use and shall have a minimum of four turnover cycles prior to opening for proper disinfection and filtration.</u>
NEW	<u>3106B.4 There shall be no standing water within the splash zone.</u>
NEW	<u>3106B.5 Nozzles that spray from the ground level shall be flush with the ground with openings no greater than one-half inch. Spray ground water features that extend above the ground must be clearly visible.</u>
NEW	<u>3106B.6 The splash zone shall be sloped so that only water from the spray ground water feature flows back to the surge basin. Areas adjacent to the splash zone shall be sloped away from the spray ground to deck drains or other surface water disposal systems.</u>
NEW	<u>3106B.7 All foggers and misters that produce finely atomized mists shall be supplied directly from a potable water source and not from the surge basin.</u>
NEW	<u>3106B.8 When multiple pumps are used the control systems for the spray ground water feature pump and recirculation system pump shall be electrically interconnected so that when the recirculation pump is off, the spray ground water feature pump also is off.</u>
NEW	<u>3106B.9 The spray ground shall have a surge basin or treatment tank constructed of materials which are inert, corrosion resistant, nontoxic and watertight including materials such as concrete, fiberglass, high density polyethylene, stainless steel or other materials as approved by the enforcing agent which can withstand all anticipated loadings under full and empty conditions as determined by an engineer or architect as defined in this Chapter.</u>
NEW	<u>3106B.10 The total volume of the surge basin shall be at least 4,000 gallons or a minimum of three times the gpm flow rate of all the spray ground pumps and the</u>

	<u>recirculation pump combined, whichever is higher.</u>
NEW	<u>3106B.11 The turnover time shall be one-half hour or less.</u>
NEW	<u>3106B.12 The suction intake for the spray ground or water feature pump in the surge basin shall be located adjacent to the recirculation return line.</u>
NEW	<u>3106B.13 When separate pumps are used, the suction intake for the recirculation pump shall be located in the lowest portion of the surge basin and on the opposite side from the suction intake for the spray ground pump.</u>
NEW	<u>3106B.14 The surge basin shall be designed to have easy access for cleaning and inspection. The basin shall have at least one ladder access and shall have at least one 3-foot by 3-foot access opening. Lids shall be locked or require a tool to open.</u>
NEW	<u>3106B.15 The surge basin shall be equipped with an automatic make up water fill device through an air gap or be protected by an approved backflow prevention device in accordance with Chapter 6 of the California Plumbing Code.</u>
NEW	<u>3106B.16 Ultraviolet light disinfection shall be used to supplement disinfection methods required in this Chapter unless another treatment process is provided that has been determined by a nationally recognized testing laboratory to be capable of providing at least the equivalent level of reduction of cryptosporidium as the ultraviolet light disinfection system specified in this section. The ultraviolet light disinfection unit shall comply with the applicable requirements established by the NSF/ANSI 50-2010 performance standard effective August 2010.</u>
NEW	<u>3106B.17 An accurately calibrated ultraviolet light intensity meter that has been properly filtered to restrict its sensitivity to the disinfection spectrum shall be installed in the wall of the disinfection chamber at the point of greatest water depth from the light source.</u>
NEW	<u>3106B.18 The ultraviolet light unit shall be installed to provide treated water directly to the spray features.</u>

NEW	<p><u>3106B.19</u> The ultraviolet light disinfection system must be equipped with an automatic shutdown system that inactivates the water feature pump if the ultraviolet dosage rate drops below 40 mJ/cm<sup>2</sup>.</p> <p><u>3106B.20</u> Artificial lighting shall be provided at all spray ground pads which are used at night or which do not have adequate natural lighting so that all portions of the spray pad and deck may be seen easily. Lighting that may be exposed to the feature pool water shall be installed in accordance with the manufacturer's specifications and the California Electrical Code.</p>
NEW	<p><u>3106B.21</u> A diverter valve shall be installed on the spray ground drainage piping before the surge basin to divert water to the storm drainage system when the splash ground is not in operation.</p>
NEW	<p><u>3106B.22</u> A removable and cleanable catch screen or basket shall be installed on the spray ground drainage system before it enters the reservoir to prevent larger debris from collecting in the surge basin.</p>

**ALTERNATIVE EQUIPMENT, MATERIAL AND METHODS OF CONSTRUCTION**

<p>Sec. 3105B Alternate Equipment, Materials, and Methods of Construction.</p>	<p><b>SECTION 3107B</b>  <b>ALTERNATIVE EQUIPMENT, MATERIALS AND METHODS OF CONSTRUCTION</b></p>
<p><u>3105B.1</u> The enforcing agency may approve an alternate equipment, material, or method of construction, provided it finds that the proposed design is satisfactory and complies with the provisions of this Chapter, that the equipment, material, method, or work offered is, for the purpose intended, at least equivalent of that prescribed in suitability, strength, effectiveness, fire resistance, durability, safety, and sanitation, or that the methods of installation proposed conform to other acceptable nationally recognized standards, and providing the alternate has been approved and its use authorized by the enforcing agency.</p>	<p><u>3107B.</u> The enforcing agent may approve an alternative equipment, material or method of construction provided it finds that the proposed design is satisfactory and complies with the provisions of this Chapter, that the equipment, material, method or work offered is, for the purpose intended, at least equivalent to that prescribed in suitability, strength, effectiveness, fire resistance, durability, safety and sanitation or that the methods of installation proposed conform to other acceptable nationally recognized standards.</p>
<p><u>3105B.2</u> The enforcing agency shall require that sufficient evidence or proof be submitted to substantiate any claims that may be made regarding its use.</p>	<p><u>3107B.2</u> The enforcing agent shall require that sufficient evidence or proof be submitted to substantiate claims that may be made regarding <u>the use of alternative equipment, material or method of construction.</u></p>
<p><u>3105B.3</u> Whenever there is insufficient evidence of compliance with the provisions of this Chapter, the enforcing agency may require tests as proof of</p>	<p><u>3107B.3</u> Whenever there is insufficient evidence of compliance with the provisions of this Chapter, the enforcing agent may require tests as proof of compliance</p>

<p>compliance to be made at no expense to the enforcing agency. Tests shall be made in accordance with approved standards, but in the absence of such standards, the enforcing agency shall specify the test procedure.</p>	<p>to be made at no expense to the enforcing agent. Tests shall be made in accordance with approved standards, but in the absence of such standards the enforcing agent may specify the test procedure.</p>
<p><b>POOL GEOMETRY</b></p>	
<p>Sec. 3108B Pool Geometry.</p>	<p><u>SECTION 3109B</u> <u>POOL GEOMETRY</u></p>
<p><b>3108B.1 Dimensions and Slopes.</b> The dimensions and slopes of a pool shall conform to the appropriate Figure 31B-1 through Figure 31B-3.</p> <p><b>Exception:</b> A special purpose pool shall be permitted a depth greater than 3 ½ feet at the shallowest end.</p>	<p><u>3109B.1 A pool shall conform to the appropriate criteria in Figures 31B-1 through 31B-7.</u> <u>Exception: A special purpose pool may be exempted from construction standards that are not applicable to the proposed use.</u></p>
<p><b>3108B.2 Drainable.</b> The pool shall be completely drainable through a main drain which shall be located at the deepest point in the pool.</p>	<p>REMOVED</p>
<p><b>3108B.3 Dimensional Tolerance.</b> A construction tolerance shall be permitted on all dimensions in Figures 31B-1, 31B-2, and 31B-3, not to exceed + or - 2 inches except that the tolerance of the water level of a pool with a nonadjustable overflow system shall not exceed + or - 1/8 inch.</p>	<p><u>3109B. Dimensional tolerances. A construction tolerance shall be permitted on all dimensions in Figures 31B-1 through 31B-3 not to exceed 2 inches (51 mm) except that the-tolerance of the water level of a pool with a nonadjustable overflow system shall not exceed 1/8 inch (3.2 mm).</u></p>
<p><b>3108B.4 Slope Break from Shallow to Deep Water.</b> When a pool has a change in bottom slope from shallow to deep water, flush mounted devices for fastening a safety rope and buoys across the pool shall be installed where the water depth is 4 ½ feet.</p>	<p><u>3109B.3 Bottom slope break. Any portion of a pool having a water depth of 4 1/2 feet (1372 mm) or less shall have a uniform slope that shall not exceed 1 foot (305 mm) of vertical in 10 feet (3050 mm) of horizontal. In pools with water depths greater than 4 1/2 feet (1372 mm), the slope shall meet the requirements in Figures 31B-1 through 31B-3. There shall be a uniform water depth along the entire base of the stairs.</u> NOTE: Authority cited: Section 131200 Health and Safety Code. Reference: Sections 116043 and 116050, Health and Safety Code.</p>
<p><b>PERMANENT MARKINGS</b></p>	
<p>Sec. 3109B Permanent Markings</p>	<p><u>SECTION 3110B</u> <u>PERMANENT MARKINGS</u></p>
<p>NEW</p>	<p><u>3110B.1 General No markings, designs or lettering shall be permitted on the pool shell except for slip resistant lane markings, depth marking lines and safety markings.</u></p>



<p><b>3109B.1 Lane Markings.</b> Slip-resistant lane lines or other markings at the bottom of the pool shall not exceed 12 inches in width.</p>	<p><b><u>3110B.2 Lane markings</u></b>Slip resistant lane lines at the bottom of the pool shall not exceed 12 inches <u>(305 mm)</u> in width.</p>
<p><b>3109B.2 Depth Marking Line.</b> There shall be installed a straight line of slip-resistant tile, 4 inches (101.6 mm) wide of contrasting color across the bottom of the pool where the water depth is 4 ½ feet. <b>Exception:</b> Pools having a maximum depth of five feet or less shall not be required to have a depth marking line.</p>	<p><b><u>3110B.3 Depth marking line.</u></b> There shall be installed a straight line of slip resistant tile a minimum of 4 inches <u>(102 mm)</u> and <u>not greater than 6 inches (152 mm)</u> wide <u>of a color contrasting with the background of the pool shell</u> across the bottom of the pool where the water depth is 4 1/2 feet <u>(1372 mm)</u>. <b>Exception:</b> Pools having a maximum water depth of 5 feet <u>(1524 mm)</u> or less shall not be required to have a depth marking line.</p>
<p><b>3109B.3 Decorative Designs</b> Designs on the bottom or walls of the pool which are shaped in a form that might reasonably be mistaken for, or give the illusion of being a human form, shall be prohibited.</p>	<p>REMOVED</p>
<p><b>3109B.4 Water Depth Markers.</b></p>	<p><b><u>3110B.4 Water depth markers</u></b></p>
<p><b>3109B.4.1 General.</b> The water depth shall be clearly marked at the following locations:</p> <ol style="list-style-type: none"> <li>(1) maximum depth,</li> <li>(2) minimum depth,</li> <li>(3) each end,</li> <li>(4) at the break in the bottom slope between the shallow and deep portions of the pool [see also Section 3108B.4], and</li> <li>(5) on the perimeter of the pool at distances not to exceed 25 feet.</li> </ol> <p><b>Exception:</b> A spa or wading pool shall have a minimum of two depth markers indicating the maximum depth.</p>	<p><b><u>3110B.4.1 Location.</u></b> The water depth shall be clearly marked at the following locations:</p> <ol style="list-style-type: none"> <li>1. Maximum depth;</li> <li>2. Minimum depth;</li> <li>3. Each end;</li> <li>4. <u>Both sides at each end;</u></li> <li>5. At the break in the bottom slope between the shallow and deep portions of the pool (see also Section 3109B.4); <u>and</u></li> <li>6. Along the perimeter of the pool at distances not to exceed 25 feet <u>(7620 mm)</u>.</li> </ol> <p><b>Exception:</b> A spa or wading pool shall have a minimum of two depth markers indicating the maximum depth.</p>
<p><b>3109B.4.2 Location.</b> Depth markers shall be located on the vertical pool walls at each end and side of the pool at or above the water level. If a pool exceeds 20 feet in width, additional markers shall be located on the edge of the deck next to the pool. <b>Exception:</b> If depth markers cannot be located on the vertical pool walls above the water line because of the pool design, the depth markers shall be located so as to be clearly visible to bathers in the pool.</p>	<p><b><u>3110B.4.2 Position.</u></b> Where required by Section <u>3110B.4.1</u>, <u>depth markers shall be located in the following positions:</u></p> <ol style="list-style-type: none"> <li>1. <u>On the coping or on the deck the depth markers shall be placed as close as possible but no more than 3 feet (914 mm) from the pool water; and</u></li> <li>2. <u>For pools with skimmer systems the depth markers shall be high at the waterline which typically will result in the depth markers being submerged approximately 50 percent;</u> <u>or</u></li> <li>3. <u>For pools with perimeter overflow systems</u></li> </ol>

	<p><u>where coping cantilevers over the gutter depth markers may be positioned at the face of the cantilevered coping, the back wall above the gutter or immediately below the waterline which will result in the depth markers being completely submerged; or</u></p> <p>4. <u>For pools with rim flow gutters depth markers shall be positioned immediately below the waterline which will result in the depth markers being completely submerged.</u></p>
<p><b>3109B.4.3 Tolerance.</b> Depth markers shall be positioned to indicate the water depth accurate to the nearest 6 inches.</p>	<p><b><u>3110B.4.3 Tolerance.</u></b> Depth markers shall be positioned to indicate the water depth accurate to the nearest 6 inches <u>(152 mm) as measured at the waterline.</u></p>
<p><b>3109B.4.4 Size of Markers.</b> Depth markers shall:</p> <ol style="list-style-type: none"> <li>1. have numerals a minimum of 3 inches in height and of a color contrasting with the background,</li> <li>2. be made of a durable material that is resistant to weathering, and</li> <li>3. be slip-resistant when they are located on the Pool deck.</li> </ol>	<p><b><u>3110B.4.4 Size of markers.</u></b> Depth markers shall:</p> <ol style="list-style-type: none"> <li>1. Have numerals a minimum of <u>4 inches (102 mm)</u> in height and of a color contrasting with the background <u>and be marked in units of feet and inches. Abbreviations of FT and IN may be used in lieu of feet and inches; and</u></li> <li>2. Be made of a durable material that is resistant to weathering; and</li> <li>3. Be slip resistant when they are located on the pool deck.</li> </ol>
<p>NEW</p>	<p><b><u>3110B.5 No diving markers</u></b> For pool water depths 6 feet <u>(1830 mm) and shallower no diving markers with the universal symbol of no diving, which is a red circle with a slash through it superimposed over the image of a diver, shall be installed on the deck directly adjacent to the depth markers required by Section 3110B.4.1.. No diving markers shall comply with Section 3110B.4.4 (2-3).</u></p>
<p><b>Sec. 3110B Steps, Recessed Steps, Ladders, and Recessed Stairs (Treads).</b></p>	<p style="text-align: center;"><b><u>SECTION 311IB</u></b> <b><u>STEPS, RECESSED STEPS, LADDERS AND STAIRS</u></b></p>
<p><b>3110B.1 General</b> A means of entry and exit to and from the pool shall consist of steps, recessed steps, ladders, or stairs, or a combination of them. One means of entry and exit shall be provided in the shallowest portion of a pool if the vertical distance from the bottom of the pool to the deck is over 2 feet. A second means of entry and exit shall be provided in the deep portion of a pool having a depth greater than 4 ½ feet. Where the width of the pool exceeds 30 feet, such means of entry and exit shall be provided at each side, not more than 100 feet</p>	<p><b><u>311IB.1 Construction.</u></b> A means of entry and exit to and from the pool shall consist of steps, recessed steps, ladders, stairs, ramps or a combination of these. One means of entry and exit shall be provided in the shallowest portion of a pool if the vertical distance from the bottom of the pool to the deck is over 1 foot <u>(305 mm)</u>. A second means of entry and exit shall be provided in the deep portion of a pool having a depth greater than 4 1/2 feet <u>(1372 mm)</u>. Where the width of the pool exceeds 30 feet <u>(9144 mm)</u>, such means of entry and exit</p>

<p>apart.</p>	<p>shall be provided at each side, not more than 100 feet (30,480 mm) apart.  <u>Note: For illustrated diagrams pertaining to this section see Figures 31B-6 and 31B-7.</u></p>
<p><b>3110B.2 Ladders.</b> Ladders with a handhold shall be corrosion-resistant and shall be equipped with slip-resistant tread surfaces. Ladders shall be rigidly installed and shall provide a clearance of not less than 3 inches nor more than 5 inches between any part of the ladder and the pool wall.</p>	<p><b>3111B.2 <u>Ladders.</u></b> Ladders shall be corrosion resistant and shall be equipped with slip resistant tread surfaces. Ladders shall be rigidly installed and shall provide a clearance of not less than 3 inches (76 mm) or more than 5 inches (127 mm) between any part of the ladder and the pool wall.</p>
<p><b>3110B.3 Stairs.</b> Each step of a stair shall have the same dimensions with a tread not less than 12 inches wide, except that if the top step is curved convexly, the top step tread shall not be less than 18 inches wide as measured at the point of maximum curvature. Risers shall be uniform and shall not exceed 12 inches in height. A safety railing shall be provided, extending from the deck to not less than a point above the top of the lowest step and with the upper railing surface not less than 28 inches above the deck.</p>	<p><b>3111B.3 <u>Stairs.</u></b> <u>Stairs shall be provided in the shallowest portion of a pool. In pools with more than one shallow end stairs shall be provided at each shallow end. Each step of a stair shall have a tread in accordance with Figure 31B-7. Risers shall conform to Figure 31B-7. At least one hand rail shall be provided extending from the deck to not less than a point above the top of the lowest step installed in accordance with Figure 31B-7.</u></p>
<p><b>3110B.4 Steps and Stepholes.</b> Steps and stepholes shall have a minimum tread of 5 inches, width of 14 inches, and shall be designed to be readily cleaned.</p>	<p><b>3111B.4 <u>Recessed steps and step risers.</u></b> <u>Ladder treads and recessed steps shall have a minimum tread of 5 inches (127 mm) and a width of 14 inches (356 mm) and shall be designed to be readily cleaned. Step risers shall be uniform and shall not exceed 12 inches (305 mm) in height. The first riser shall be measured from the deck.</u></p>
<p><b>110B.5 Hand Railings.</b> Hand railings shall be provided at the top of both sides and shall extend over the coping or edge of the deck for each ladder and stephole.</p>	<p><b>3111B.5 <u>Hand rails.</u></b> <u>Hand rails shall be provided at the top of both sides of each ladder and recessed steps and shall extend over the coping or edge of the deck.</u></p>
<p><b>3110B.6 Steps for a Spa Pool.</b> Each step of a spa pool shall have a tread width not less than 12 inches. Risers shall not exceed 9 inches in height when one hand railing is provided, or 12 inches in height when two hand railings are provided. A hand railing shall be installed over the steps, with the leading railing edge extending up to a point not less than 12 inches from the plane of the bottom riser. The steps shall be located where the deck is at least 4 feet wide.</p>	<p><b>3111B.6 <u>Stairs for a spa pool.</u></b> <u>Each step of a spa pool stair shall have a tread dimension in accordance with Figure 31B-7. Risers shall not exceed 12 inches (305 mm) in height. Two hand rails shall be provided extending from the deck to not less than a point above the top of the lowest step in accordance with Figure 31B-7. The steps shall be located where the deck is at least 4 feet (1219 mm) wide.</u></p>
<p><b>HANDHOLDS</b></p>	
<p>Sec. 3111B Handholds</p>	<p style="text-align: center;"><b>SECTION 3112B  <u>HANDHOLDS</u></b></p>

<p><b>3111B.1 General.</b> Every pool shall be provided with handholds (perimeter overflow system, bull-nosed coping, or cantilevered decking) around the entire perimeter installed not greater than 9 inches above the water line.  <b>Exception:</b> Handholds are not required for wading pools.</p>	<p><b>3112B.1 General.</b> Every pool shall be provided with handholds (perimeter overflow system, bull-nosed coping or cantilevered decking) around the entire perimeter installed not greater than 9 inches <u>(229 mm)</u> above the waterline.  <b>Exception:</b> Handholds are not required for wading pools.</p>
<p><b>3111B.2</b> For special use pools used for instruction or competitive swimming, a handhold at water level similar to the rim of a perimeter overflow system is required.</p>	<p><b>3112B.2</b> For special purpose pools used for instruction or competitive swimming, a handhold at water level similar to the rim of a perimeter overflow system is required.</p>
<p><b>3111B.3</b> Where perimeter overflow systems are not provided, a bull-nosed coping or cantilevered decking of reinforced concrete, or material equivalent in strength and durability, with rounded, slip-resistant edges shall be provided. The overhang for either bull-nosed coping or cantilevered decking shall not exceed 2 inches nor be less than 1 inch, and shall not exceed 2 ½ inches in thickness.  <b>Exception:</b> The enforcing agency may accept handholds other than those specified for spa pools.</p>	<p><b>3112B.3</b> Where perimeter overflow systems are not provided, a bull-nosed coping or cantilevered decking of reinforced concrete, or material equivalent in strength and durability, with rounded slip resistant edges shall be provided. The overhang for either bull-nosed coping or cantilevered decking shall not exceed 2 inches <u>(51 mm)</u> or be less than 1 inch <u>(25 mm)</u> and shall not-exceed 2 1/2 inches <u>(64 mm)</u> in thickness.  <b>Exception:</b> The enforcing <u>agent</u> may accept other handholds for spa pools.</p>

**DIVING BOARDS AND PLATFORMS**

<p><b>Sec. 3112B Diving Boards</b></p>	<p style="text-align: center;"><b>Section 3113B</b>  <b><u>DIVING BOARDS AND PLATFORMS</u></b></p>
<p><b>3112B.1 General.</b> Diving boards and their supports, platforms and steps shall be substantially constructed and shall be of sufficient structural strength to carry the maximum anticipated load. Steps shall be of corrosion-resistant material, easily cleanable and of slip-resistant design.</p>	<p><b>3113B.1 - General.</b> Diving boards <u>and platforms shall be anchored to the pool deck, constructed of corrosion resistant material, designed and constructed to be easily cleanable and finished with a durable slip resistant material.</u></p>
<p><b>3112B.2 Railings.</b> Hand railings shall be provided at all steps and ladders leading to diving boards more than 1 meter above the water, except those steps or ladders set 15 ° or less from the vertical. Guard railings extending to a point on the platform directly above the water's edge shall be provided on both sides of all platforms and diving boards which are over 1 meter high. Guard railings shall be 36 inches above the platform or diving</p>	<p><b>3113B.2 <u>Rails and steps.</u></b> <u>Diving boards or platforms greater than 18 inches (456 mm) in height above the deck shall be provided with a ladder or stairs for access. Hand rails shall be provided at all ladders and stairs leading to diving boards or platforms more than 1 meter above the water. Diving boards and platforms that are over 1 meter above the water shall have guard rails on both sides of the diving board or platform that extend to a point on</u></p>

board.	<u>the platform directly above the water's edge. Guard rails shall be 36 inches (914 mm) above the diving board or platform.</u>
NEW	<u>3113B.3 Dimensions. Dimensions and clearances for the use of diving boards or platforms shall conform to those shown in Figures 31B-1 and 31B-2. Platforms and diving boards shall conform to the USA Diving Rules and Codes, Part 1, Subpart A and Appendix B, effective January 1, 2010.</u>
<b>POOL DECKS</b>	
Sec. 3113B Pool Decks	<u>SECTION 3114B</u>  <b>POOL DECKS</b>
<p><b>3113B.1 General.</b> A minimum continuous and unobstructed 4 foot wide slip-resistant non-abrasive deck area of concrete or like material shall be provided flush with the top of the pool shell wall extending completely around the pool and the deck area shall further extend 4 feet (1.2 m) on both sides and rear of any diving board or slide and their appurtenances. The deck width shall be measured from the poolside edge of the coping lip.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. A deck at least 4 feet in width shall extend around 50 percent or more of the perimeter of a spa pool. For spa pools that have their walls extending above the ground or floor level, the deck area requirement shall apply at the ground or floor level unless otherwise specified by the enforcing agency.</li> </ol>	<p><b>3114B.1 General.</b> A minimum continuous and unobstructed 4 foot wide <u>(1219 mm)</u> slip resistant, <u>cleanable, nonabrasive deck area</u> of concrete or like material shall be provided flush with the top of the pool coping extending completely around the pool, and the deck area shall further extend 4 feet <u>(1219 mm)</u> on both sides and rear of any diving board, <u>fixed disabled access assistance device</u> or slide and their appurtenances. The deck width shall be measured from the poolside edge of the coping lip.</p> <p><b>Exception:</b> A deck at least 4 feet <u>(1219 mm)</u> in width shall extend around a <u>continuous</u> 50 percent or more of the perimeter of a spa pool. For spa pools that have their walls extending above the ground or floor level, the deck area requirement shall apply at the ground or floor level unless otherwise <u>approved in writing</u> by the enforcing <u>agent</u>.</p> <p><b>Note:</b> <u>[DSA-AC] Any mechanism provided to assist persons with disabilities in gaining entry into the pool and in exiting from the pool shall comply with Chapter 11B, Section 1104B4.3, Participation Areas.</u></p>
2. The deck width separating a spa pool from an adjacent pool shall not be less than 6 feet wide.	<u>3114B.2 Deck between pools and/or spas. Where multiple pools and/or spas are built adjacent to each other, the deck width separating them shall be a minimum of 6 feet (1830 mm).</u>
3. The deck may be omitted from around a temporary training pool.	REMOVED
<b>3113B.2 Deck Drainage.</b> The pool deck surface shall be sloped a minimum of 1/4 inch per foot to deck drains or	<b>3114B.3 Deck slope.</b> The pool's deck surface <u>shall have a slope of no less than 1% (1/8 inch per foot) but no more</u>

<p>other approved surface water disposal areas. The pool deck surface shall not drain into the pool, its perimeter overflow channel, into an adjoining spa or other pool, nor be connected to the recirculation system. NOTE: A deck drain system of one 4 inch drain inlet per 400 square feet (37 m<sup>2</sup>) of tributary deck area, with drains spaced 25 feet apart, usually provides adequate surface water disposal.</p>	<p><u>than 2 percent (1/4 inch per foot) away from the pool to a deck drainage system and shall be constructed and finished to prevent standing water.</u></p>
<p><b>3113B.3 Pool Coping.</b> Pool coping shall be slip-resistant.</p>	<p>REMOVED</p>
<p><b>3113B.4 Coverings.</b> Artificial covering shall be permitted on the deck area when approved by the enforcing agency. NOTE: Deck slopes to provide proper drainage may vary with the texture of the surface. It is recommended that the minimum slope be increased if artificial covering or exposed aggregate concrete surface is contemplated.</p>	<p><b><u>3114B.4 Deck covering.</u></b> Deck coverings or other materials that are not equivalent to concrete in strength, durability and slip resistance and are not able to withstand repeated brushing, scrubbing or cleaning procedures shall not be installed or used within 4 feet (1219 mm) of the pool.</p>
<p><b>3113B.5 Handrails.</b> Handrails shall be provided around the perimeter of any raised deck of a temporary training pool.</p>	<p>REMOVED</p>
<p><b>3113B.6 Unpaved Areas.</b> Landscape planters, flower beds, or similar unpaved areas shall not be located within 4 feet of a spa pool.</p>	<p><b><u>3114B.5 Unpaved areas.</u></b> Landscape plants, flower beds or similar unpaved areas shall not be located within 4 feet (1219 mm) of a spa pool.</p>
<p><b>POOL LIGHTING</b></p>	
<p><b>Sec. 3114B Pool Lighting</b></p>	<p style="text-align: center;"><b>SECTION-3115B</b></p> <p><b><u>POOL LIGHTING</u></b></p>
<p><b>3114B.1 General.</b> Where pool lighting is provided, it shall be such that lifeguards or other persons may observe, without interference from direct and reflected glare from the lighting sources, every part of the underwater area and swimming pool surface, all diving boards, or other pool appurtenances. NOTE: See (Part 3) Article 680 for electrical installation requirements.</p>	<p><b><u>3115B.1 General</u></b> Pools shall have underwater and deck lighting such that lifeguards or other persons may observe, without interference from direct and reflected glare from the lighting sources, every part of the underwater area and pool surface, all diving boards or other pool appurtenances. <u>If underwater or deck surface lighting is not operational, the operator of the pool shall secure the pool area and not permit any use of the pool after dark and shall post the same sign as required in Section 3120B.9.</u></p> <p style="text-align: center;"><u>Note: See Part 3, Article 3-680, Title 24, California Code of Regulations for electrical installation requirements.</u></p>

<p><b>3114B.2 Nighttime Use.</b> Pools used at night shall be equipped with underwater light fixtures that will provide complete illumination to all underwater areas of the pool with no blind spots. Illumination shall enable a lifeguard or other persons to determine whether: (1) a bather is lying on the bottom of the pool, and (2) the water conforms to the definition of “clear pool water”.</p> <p><b>Exception:</b> Pools provided with a system of overhead lighting fixtures, where it can be demonstrated to the enforcing agency that the system is equivalent to the underwater lighting fixture system.</p>	<p><b>3115B.2 Nighttime use</b> Pools used at night shall be equipped with underwater lighting fixtures that will provide complete illumination to all underwater areas of the pool with no blind spots. Illumination shall enable a lifeguard or other persons to determine whether:</p> <ol style="list-style-type: none"> <li>1. A <u>pool user</u> is lying on the bottom of the pool; and</li> <li>2. The pool water conforms to the definition of "clear pool water."</li> </ol> <p><b>Exception:</b> Pools provided with a system of overhead lighting fixtures where it can be demonstrated to the enforcing <u>agent</u> that the system is equivalent to the underwater lighting fixture system.</p>
<p><b>3114B.3 Deck Area Lighting</b> Where the pool is to be used at night, pool deck areas shall be provided with lighting so that persons walking on the deck can identify hazards. Lighting fixtures shall be aimed towards the deck area and away from the pool surface insofar as practical</p>	<p><b>3115B.3 Deck area lighting.</b> When the pool is to be used at night, pool deck areas <u>and emergency egress areas</u> shall be provided with lighting so that persons walking on the deck can identify hazards. Lighting fixtures shall be aimed towards the deck area and away from the pool surface insofar as practical.</p>
<p><b>ANCILLARY FACILITIES</b></p>	
<p><b>ANCILLARY AREAS AND FACILITIES</b> Sec. 3115B Bathhouse, Dressing, Shower, and Toilet Facilities</p>	<p><u><b>ANCILLARY FACILITIES</b></u></p> <p><b>SECTION 3116B</b> <b>BATHHOUSE, DRESSING, SHOWER, AND TOILET FACILITIES</b></p>
<p><b>3115B.1</b> Shower and dressing facilities shall be provided for users of a pool.</p> <p><b>Exception:</b></p> <ol style="list-style-type: none"> <li>1. Shower and dressing facilities may not be required when bathers have access to such facilities in adjacent living quarters.</li> <li>2. Public toilet facilities may be omitted when bathers have access to toilet facilities either in living quarters located not more than 300 feet in travel distance from the pool, or in an adjacent building such as a recreational facility, clubhouse, or cabana.</li> </ol>	<p><b>3116B.1</b> Shower and dressing facilities shall be provided for users of a pool.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Shower and dressing facilities may not be required when bathers have access to such facilities in adjacent living quarters.</li> <li>2. Public toilet facilities may be omitted when bathers have access to toilet facilities either in living quarters located not more than 300 feet <u>(91,440 mm)</u> in travel distance from the pool, or in an adjacent building such as a recreational facility, clubhouse or cabana.</li> </ol>
<p><b>3115B.2 Number of Sanitary Facilities.</b> For the purpose of this subsection, one bather shall be considered for every 15 square feet of pool water surface area.</p>	<p><b>3116B.2 Number of sanitary facilities.</b> For the purpose of this subsection, one bather shall be considered for every 15 square feet <u>(1.39 m<sup>2</sup>)</u> of pool water surface area.</p>
<p><b>3115B.2.1 Showers.</b> One shower shall be provided for every 50 bathers.</p>	<p><b>3116B.2.1 Showers.</b> One shower shall be provided for every 50 bathers.</p>

<p><b>3115B.2.2 Toilets.</b> Separate toilet facilities shall be provided for each sex. One toilet shall be provided for every 60 women; one toilet plus one urinal for every 75 men.</p>	<p><b>3116B.2.2 Toilets.</b> Separate toilet facilities shall be provided for each sex. One toilet shall be provided for every 60 women or less and one toilet plus one urinal for every 75 men or less.</p>
<p><b>3115B.2.3 Lavatories.</b> One lavatory shall be provided for every 80 bathers.</p>	<p><b>3116B.2.3 Lavatories</b> One lavatory shall be provided for every 80 bathers.</p>
<p><b>3115B.3 Construction.</b></p>	<p><b>3116B.3 Construction.</b></p>
<p><b>3115B.3.1 Floors.</b> Floors shall have a hard nonabsorbent surface, such as Portland cement concrete, ceramic tile or other approved material, which extends upwards onto the wall at least 5 inches with a coved base. Floors which may be walked on by a wet bather shall be slip-resistant. Floors shall be sloped not less than ¼ inch per foot to floor drains or other approved surface water disposal areas. Carpeting and other similar artificial floor covering shall not be permitted on shower and toilet room floors.</p> <p>NOTE: Rough rotary, raised rubber or wood float finish of concrete usually provides a slip-resistant finish.</p>	<p><b>3116B.3.1 Floors.</b> Floors shall have a hard, nonabsorbent surface, such as Portland cement concrete, ceramic tile or other approved material, which extends upwards onto the wall at least 5 inches (127 mm) with a coved base. Floors which may be walked on by a wet bather shall be slip resistant. Floors shall be sloped not less than 1/4 inch (6.4mm) per foot to floor drains or other approved surface water disposal areas. Carpeting and other similar artificial floor covering shall not be permitted on shower and toilet room floors.</p> <p>Note: Rough rotary, raised rubber or wood float finish of concrete usually provides a slip-resistant finish.</p>
<p><b>3115B.3.2 Interior Wall Surfaces.</b> The materials used in the walls, except for structural elements, shall be of a type which is not adversely affected by moisture.</p>	<p><b>3116B.3.2 Interior surfaces.</b> The materials used in the walls, except for structural elements, shall be of a type which is not adversely affected by moisture.</p>
<p><b>3115B.3.3 Privacy.</b> All doors and windows shall be arranged to prevent viewing of the interior from any portion of the building used by the opposite sex and from view from the outdoors. View screens shall be permitted for this purpose.</p>	<p><b>3116B.3.3 Privacy.</b> All doors and windows shall be arranged to prevent viewing of the interior from any portion of the building used by the opposite sex and from view from the outdoors. View screens shall be permitted for this purpose.</p>
<p><b>3115B.4 Water Supply.</b></p>	<p><b>3116B.4 Water supply.</b></p>
<p><b>3115B.4.1 Showers and lavatories</b> shall be provided with hot and cold water.</p>	<p><b>3116. B.4.1 Showers and lavatories</b> shall be provided with hot and cold water <u>faucets</u>.</p>
<p><b>3115B.4.2 Tempered water</b> shall be permitted in lieu of individual hot and cold water faucets.</p>	<p><b>3116B.4.2 Tempered water</b> shall be permitted in lieu of individual hot and cold water faucets.</p>
<p><b>3115B.4.3 A means to limit the hot water to 110° F (43° C) maximum</b> shall be provided to prevent scalding. This temperature limit control shall not be adjustable by the bather.</p>	<p><b>3116B.4.3 A means to limit the hot water to 110°F (43°C) maximum</b> shall be provided to prevent scalding. This temperature limit control shall not be adjustable by the bather.</p>



**DRINKING FOUNTAINS**

<p><b>Sec. 3116B Drinking Fountains</b></p> <p>One guarded jet drinking fountain shall be provided for the first 250 bathers and an additional fountain shall be provided for each additional 200 bathers or fraction thereof. The number of bathers shall be determined according to Section 3115B 2</p> <p><b>Exception:</b> Drinking fountains shall not be required when drinking water is available at adjacent living quarters, or in an adjacent building such as a bathhouse, cabana, clubhouse, or recreational facility.</p>	<p><b>SECTION 3117B</b> <b>DRINKING FOUNTAINS</b></p> <p>One guarded jet drinking fountain shall be provided for the first 250 bathers and an additional fountain shall be provided for each additional 200 bathers or fraction thereof. The number of bathers shall be determined according to Section <u>3116B.2</u>.</p> <p><b>Exception:</b> Drinking fountains shall not be required when drinking water is available at adjacent living quarters, or in an adjacent building such as a bathhouse, cabana, clubhouse or recreational facility.</p>
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**HOSE BIBBS**

<p><b>Sec. 3117B Hose Bibbs</b></p> <p>Hose bibbs shall be provided for each pool and located so that all portions of the pool deck may be reached with a 75 foot length of hose attached to the hose bibb. Hose bibbs shall be located so that they do not constitute a safety hazard and shall be protected against backflow.</p>	<p><b>SECTION 3118B</b> <b>HOSE BIBBS</b></p> <p><u>Potable water outlets with hose attachments shall be protected by a nonremovable hose bibb backflow preventer, a nonremovable hose bibb vacuum breaker, or by an atmospheric vacuum breaker installed not less than 6 inches (152 mm) above the highest point of usage located on the discharge side of the last valve as required by the California Plumbing Code. In climates where freezing temperatures occur, a listed self-draining frost-proof hose bibb with an integral backflow preventer or vacuum breaker shall be used. Hose bibbs shall be provided so that all portions of the pool deck area may be reached with a 75 foot length of hose attached to the hose bibb. A hose bibb shall be provided in the equipment area. Hose bibbs shall be located so that they do not constitute a hazard.</u></p>
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**POOL ENCLOSURE**

<p><b>Sec. 3118B (formerly 2-9024) Enclosure of Pool Area</b></p> <p><b>(a) Enclosure.</b> The pool shall be enclosed by one or a combination of one of the following: a fence, portion of a building, wall or other approved durable enclosure. Doors, openable windows, or gates of living quarters or associated private premises shall not be permitted as part of the pool enclosure. The enclosure, doors and gates shall meet all of the following specifications:</p> <p>1. The enclosure shall have a minimum effective perpendicular height of 5 feet as measured from the</p>	<p><b>SECTION 3119B</b> <b>POOL ENCLOSURE</b></p> <p><b>3119B.1 Enclosure</b> The pool shall be enclosed by one or a combination of the following: a fence; portion of a building; wall; or other approved durable enclosure. Doors, windows, gates of living units or associated private premises shall not be permitted as part of the pool enclosure. The enclosure, doors and gates shall meet all of the following specifications:</p> <p>1. The enclosure shall have a minimum effective perpendicular height of 5 feet <u>(1524 mm)</u> as</p>
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<p>outside as depicted in Figures 31B-4 and 31B-5.</p>	<p>measured from the outside as depicted in Figure <u>31B</u>;</p>
<p>2. Openings, holes or gaps in the enclosure, doors and/or gates shall not allow the passage of a 4 inch diameter sphere. The bottom of the enclosure shall be within 2 inches of the finished grade.</p>	<p>2. Openings, holes or gaps in the enclosure, doors and/or gates shall not allow the passage of a 4-inch <u>(102 mm)</u> diameter sphere. <u>The enclosure shall be constructed over a hard and permanent material equivalent to concrete; and</u></p>
<p>3. The enclosure shall be designed and constructed so that it cannot be readily climbed by small children. Horizontal and diagonal member designs, which might serve as a ladder for small children, are prohibited. Horizontal members shall be spaced at least 48 inches apart. Planters or other structures shall not be permitted to encroach upon the clear span area as depicted in Figure 31B-5. Chain link may be used provided that the openings are not greater than 1 3/4 inches measured horizontally.</p>	<p>3. The enclosure shall be designed and constructed so that it cannot be readily climbed by small children. Horizontal and diagonal member designs which might serve as a ladder for small children are prohibited. Horizontal members shall be spaced at least 48 inches <u>(1219 mm)</u> apart. <u>No planters or other structures that can be climbed shall be permitted within 5 feet (1524 mm) of the outside of the pool enclosure or within a 5 foot (1524 mm) arc as depicted in Figure 31B-5. The area 5 feet (1524 mm) outside of the pool enclosure shall be a common area open to the public.</u></p>
<p>NEW</p>	<p>4. Chain link may be used; provided that the openings are not greater than 1 3/4 inches <u>(44 mm)</u> measured horizontally.</p>
<p><b>3118B.2 Gates</b> Gates and doors opening into the pool enclosure shall also meet the following specifications:</p>	<p><b><u>3119B.2</u> Gates.</b> Gates and doors opening into the pool enclosure also shall meet the following specifications:</p>
<p>1. Gates and doors shall be equipped with self closing and self latching devices. The self latching device shall be designed to keep the gate or door securely closed. Gates and doors shall open outward away from the pool except where otherwise prohibited by law. Hand activated door or gate opening hardware shall be located at least 3 ½ feet above the deck or walkway. <b>Exception:</b> Doors leading from areas of hotels and motels, as defined in the Business and Professions Code Section 25503.16(b), which are open to the general public, e.g., restaurants, lobbies, bars, meeting rooms, and retail shops need not be self latching.</p>	<p>1. Gates and doors shall be equipped with self closing and self latching devices. The self latching device shall keep the gate or door securely closed. Gates and doors shall open <u>outwardly</u> away from the pool except where otherwise prohibited by law. Hand activated door or gate opening hardware shall be located <u>at a height no lower than 42 inches (1067 mm) but no higher than 44 inches (1179 mm) above the deck or walkway; and</u></p>
<p>2. Except as otherwise provided herein, gates and doors shall be capable of being locked during times when the pool is closed. Exit doors which comply with Chapter 10 shall be considered as meeting these</p>	<p>2. Gates and doors shall be capable of being locked during times when the pool is closed. Exit doors which comply with Chapter 10, <u>Title 24, California Code of Regulations</u> shall be considered</p>

requirements.	as meeting these requirements; <u>and</u>
3. The pool enclosure shall have at least one means of egress without a key for emergency purposes. Unless all gates or doors are so equipped, those gates and/or doors which will allow egress without a key shall be clearly and conspicuously labeled in letters at least 4 inches high "EMERGENCY EXIT".	3. The pool enclosure shall have at least one means of egress without a key for emergency purposes. Unless all gates or doors are so equipped, those gates and/or doors which will allow egress without a key shall have a sign in letters at least 4 inches (102 mm) high stating EMERGENCY EXIT; <u>and</u>
4. The enclosure shall be designed and constructed so that all persons will be required to pass through common pool enclosure gates or doors in order to gain access to the pool area. All gates and doors exiting the pool area shall open into a public area or walkway accessible by all patrons of the pool.	4. The enclosure shall be constructed so that all persons will be required to pass through common pool enclosure gates or doors in order to gain access to the pool area. All gates and doors exiting the pool area shall open into a public area or a walkway accessible by all patrons of the pool.
<b>3118B.3 Retroactivity.</b> Subsections 3118B.1 and	<b>3119B. Retroactivity</b> Sections <u>3119B.1</u> and
3118B.2 shall apply only to a public swimming pool constructed on or after July 1, 1994.	<u>3119B.2</u> shall apply only to public pool enclosures constructed on or after July 1, 1994. <u>Notwithstanding the foregoing effective date, no fence enclosure shall be less than 4 feet (1219 mm) in height.</u>
<b>3118B.4 Enclosure of pools constructed prior to July 1, 1994.</b> When the physical characteristics of a site preclude providing a four foot deck around the perimeter of an existing pool, the enforcing agency may allow the installation of an enclosure which reduces the pool deck to less than four feet in width.	<b>3119B.4 Enclosure of pools constructed prior to July 1, 1994.</b> <u>The enforcing agent may allow the installation of an enclosure which reduces the pool deck to less than 4 feet (1219 mm) in width when the physical characteristics of a site preclude providing a 4-foot (1219 mm) wide deck around the perimeter of an existing pool.</u>
<b>REQUIRED SIGNS</b>	
<b>Sec. 3119B (formerly 2-9025) Signs</b>	<b>SECTION 3120B</b>  <b><u>REQUIRED SIGNS</u></b>
<b>3119B.6 Approved Signs.</b> Approved signs shall be maintained in a legible manner.	<b>3120B.1 General.</b> <u>All signs shall have clearly legible letters or numbers not less than 4 inches (102 mm) high, unless otherwise required in this section, affixed to a wall, pole, gate or similar permanent structure in a location visible to all pool users.</u>
<b>3119B.1 Occupant Load Sign.</b> A sign with clearly legible letters not less than 4" high shall be posted in a conspicuous place near the main entrance to a pool which shall indicate the number of occupants permitted for each pool.	<b>3120B.2 Pool user capacity sign.</b> <u>A sign shall indicate the maximum number of pool users permitted for each pool.</u>

<p><b>3119B.1.1 Spa Pool.</b> The occupant capacity of a spa pool shall be based on one bather for every 10 square feet of pool water surface area.</p>	<p><b>3120B.2.1. Spa pool.</b> <u>The pool user capacity of a spa pool shall be based on one pool user for every 10 square feet (0.929 m<sup>2</sup>) of pool water surface area.</u></p>
<p><b>3119B.1.2 Other Pools.</b> The occupant capacity of all other pools shall be based on one bather for every 20 square feet of pool water surface area. <b>Exception:</b> Occupant capacity requirements do not apply to wading pools.</p>	<p><b>3120B.2.2. Other pools.</b> <u>The pool user capacity for all other pools shall be based on one pool user for every 20 square feet (1.858 m<sup>2</sup>) of pool water surface area.</u> <b>Exception:</b> <u>Pool user capacity requirements do not apply to wading pools or spray grounds.</u></p>
<p><b>3119B.2 Signs for Shallow Pool.</b> Signs with clearly legible letters not less than 4 inches high shall be posted in a conspicuous place and shall state: "NO DIVING ALLOWED".</p>	<p><b>3120B.3. No diving sign.</b> <u>Signs shall be posted in conspicuous places and shall state, "NO DIVING" at pools with a maximum water depth of 6 feet or less.</u></p>
<p>Title 22 Chapter 20 Section 65539(c).</p>	<p><b>3120B.4 No lifeguard sign.</b> <u>Where no lifeguard service is provided, a warning sign shall be posted stating, "WARNING: NO LIFEGUARD ON DUTY." The sign also shall state in letters at least 1 inch (25 mm) high, "Children under the age of 14 shall not use pool without a parent or adult guardian in attendance."</u></p>
<p>Title 22 Chapter 20 Section 65539(d).</p>	<p><b>3120B.5 Artificial respiration and CPR sign.</b> <u>An illustrated diagram with text at least 1/4 inch (6 mm) high of artificial respiration and CPR procedures shall be posted.</u></p>
<p>Title 22 Chapter 20 Section 65539(d)</p>	<p><b>3120B.6 Emergency sign.</b> <u>The emergency telephone number 911, the number of the nearest emergency services and the name and street address of the pool facility shall be posted.</u></p>
<p><b>3119B.5 Warning Sign for a Spa Pool.</b> A precaution sign with clearly legible letters shall be posted in a prominent place near the entrance to a spa pool which shall contain the following language: "CAUTION" 1. Elderly persons, pregnant women, infants and those with health conditions requiring medical care should consult with a physician before entering a spa. 2. Unsupervised use by children under the age of 14 is prohibited. 3. Hot water immersion while under the influence of alcohol, narcotics, drugs, or medicines may lead to serious consequences and is not recommended. 4. Do not use alone.</p>	<p><b>3120B.7 Warning sign for a spa pool.</b> <u>A warning sign for spa pools shall be posted stating, "CAUTION" and shall include the following language in letters at least 1 inch (25 mm) high:</u> 1. Elderly persons, pregnant women, infants and those with health conditions requiring medical care should consult with a physician before entering the spa. 2. Unsupervised use by children under the age of 14 is prohibited. 3. Hot water immersion while under the influence of alcohol, narcotics, drugs or medicines may lead to serious consequences and is not recommended. 4. Do not use alone. 5. Long exposure may result in hyperthermia, nausea,</p>

5. Long exposure may result in nausea, dizziness or fainting.	dizziness or fainting.
<b>Title 24 Article 680-13. Emergency Switch for Spa Pool.</b> A clearly labeled emergency shut-off switch for the control of both the recirculation system and the aeration and/or jet system shall be installed adjacent to the spa pool.	<u>3120B.8 Emergency shut off.</u> In letters at least one inch (25 mm) high a sign shall be posted at the spa emergency shut off switch stating, “ <u>EMERGENCY SHUT OFF SWITCH.</u> ”
<b>3119B.4 Warning Sign for Pools Without Pool Lighting</b> Where pool lighting fixtures which comply with Section 3114B are not provided, a sign with clearly legible letters not less than 4 inches high shall be posted in a prominent place near each entrance to the pool area. This sign shall state “NO USE OF POOL ALLOWED AFTER DARK”.	<u>3120B.9 No use after dark.</u> Where pools were constructed for which lighting was not required, a sign shall be posted at each pool entrance on the outside of the gate(s) stating, “ <u>NO USE OF POOL ALLOWED AFTER DARK.</u> ”
NEW	<u>3120B.10 Keep closed.</u> A sign shall be posted on the exterior side of gates and doors leading into the pool enclosure area stating, “ <u>KEEP CLOSED.</u> ”
NEW	<u>3120B.11 Diarrhea.</u> A sign in letters at least 1 inch (25 mm) high and in a language or diagram that is clearly stated shall be posted at the entrance area of a public pool which states that persons having currently active diarrhea or who have had active diarrhea within the previous 14 days shall not be allowed to enter the pool water.
NEW	<u>3120B.12 Wave pools.</u> A sign in letters at least 1 inch (25 mm) high shall be posted that describes the requirements for wave pools as described in Section 115952, Health and Safety Code.
NEW	<u>3120B.13 Spray Ground Sign.</u> A sign shall be posted at each spray ground and be visible from any part of the spray ground that states, “ <u>CAUTION: WATER IS RECIRCULATED. DO NOT DRINK.</u> ”
<b>Title 22 Chapter 20 Section 65547(a)(4).</b>	<u>3120B.14 Exit.</u> Where automatic gaseous chlorine chemical feeders are used, a sign shall be posted at the pool area entrance which shows in a diagrammatic form an emergency evacuation procedure. Designated emergency exits shall be marked “EXIT.”
<b>3119B.3 Warning Sign for Pools Using Gas Chlorine.</b> Pools at which gas chlorine is used for disinfection shall have a conspicuously posted sign on the exterior side of	<u>3120B.15 Gaseous Oxidizer.</u> Where automatic gaseous chlorine chemical feeders are used, a warning sign with the appropriate hazard identification symbol shall be

<p>the entry door to the chlorine room, or on the adjacent wall area. In addition to displaying the appropriate hazard identification symbol for gas chlorine, the sign shall state with clearly legible letters not less than 4" high the following: "DANGER: GASEOUS OXIDIZER CHLORINE".</p>	<p><u>posted on the exterior side of the door entering the chemical feeder room or area. The sign shall state, "DANGER: GASEOUS OXIDIZER - (specific chemical name)," or as otherwise required by the California Fire Code.</u></p>
<p><b>Title 24 Article 680-12(a).</b> Switches for the control of mechanical ventilation and lighting fixtures in a room used for gas chlorination equipment shall be located adjacent to the entry door outside the room. Each switch shall be clearly labeled "Turn On Before Entering."</p>	<p><b>3120B.16 Turn on before entering.</b> <u>Where automatic gaseous chemical feeders are used, a sign shall be posted at the switch to the light and ventilation system for the gaseous chemical feeder room stating, "TURN ON BEFORE ENTERING," or as otherwise required by the California Fire Code or the California Electrical Code.</u></p>
<p>NEW</p>	<p><b>3120B.17 Direction of flow.</b>  <u>3120B.17.1. The direction of flow for the recirculation equipment shall be labeled clearly with directional symbols such as arrows on all piping in the equipment area.</u>  <u>3120B.17.2. Where the recirculation equipment for more than one pool is located on site, the equipment shall be marked as to which pool the system serves.</u>  <u>3120B.17.3. Valves and plumbing lines shall be labeled clearly with the source or destination descriptions.</u></p>
<p><b>INDOOR POOL VENTILATION</b></p>	
<p><b>Sec. 3120B Indoor Pool Ventilation</b></p>	<p><u>SECTION 3121B</u></p> <p><b>INDOOR POOL VENTILATION</b></p>
<p>A pool located indoors shall be ventilated according to acceptable engineering principles.          NOTE: See Section 1202.2 for ventilation requirements for dressing and toilet rooms.</p>	<p><u>Indoor pools, dressing rooms and toilet rooms shall be ventilated according to the requirements in Chapter 4 of the California Mechanical Code.</u></p>
<p><b>POOL EQUIPMENT ENCLOSURE</b></p>	
<p><b>Sec. 3121B (formerly 2-9027). Foundations for Pool Equipment</b></p>	<p><u>SECTION 3122B</u></p> <p><u>POOL EQUIPMENT ENCLOSURE</u></p>
<p>Pool equipment shall be mounted on a Portland cement concrete or other easily cleanable nonabsorbent floor material. Floors shall be sloped a minimum of ¼ inch per foot (1 in 48) drainage disposal methods approved by the local enforcing agency.</p>	<p><u>For pools constructed on or after January 1, 2013, pool equipment shall be enclosed as follows:</u></p> <ol style="list-style-type: none"> <li>1. <u>All equipment installed for recirculation, filtration and disinfection of pool water shall be installed so that access is limited to persons authorized by the pool owner or operator;</u></li> <li>2. <u>Pool equipment shall be mounted on a continuous slab of concrete or other equivalent easily cleanable and nonabsorbent material; and</u></li> </ol>

	<p>3. Floors shall be sloped a minimum of ¼ inch (6.4 mm) per foot to a drain.</p>
<p><b>GAS CHLORINATION EQUIPMENT ROOM</b></p>	
<p><b>Sec. 3122B (formerly 2-9028) Gas Chlorination Equipment Room</b></p>	<p><b>SECTION 3135B GAS CHLORINATION EQUIPMENT ROOM</b></p>
<p>Compressed chlorine gas storage containers and associated chlorinating equipment when installed indoors shall be in a separate room of not less than 1-hour, fire-resistive construction and shall comply with all of the following:</p>	<p><u>Compressed chlorine gas storage containers and auxiliary components shall be installed indoors in a separate room of not less than 1-hour fire resistant construction and shall comply with the California Fire Code and all of the following.</u></p>
<p><b>3122B.1 Location.</b> The room shall not be located in a basement or below ground.</p>	<p><u><b>3135B.1 Location.</b> The gas chlorination equipment room shall not be located in any habitable building, above the first floor or below ground level.</u></p>
<p><b>3122B.2 Entry.</b> The entry door to the room shall open to the exterior of the building or structure and shall not open directly towards the pool or pool deck.</p>	<p><u><b>3135B.2 Exit</b> Required exit doors shall swing in the direction of exit of travel and shall not open directly toward the pool or pool deck.</u></p>
<p><b>3122B.3 Ventilation.</b> A mechanically operated exhaust ventilation system shall be provided sufficient to produce 60 air changes per hour. The exhaust ventilation shall be taken at a point at or near the floor level. The system shall be vented to the outside air, and at the point of discharge shall be at least 10 feet from any openable windows, an adjacent building, and above the adjoining grade level. Fresh air intakes directly communicating with the outdoors shall be located within 6 inches of the ceiling.</p>	<p><u><b>3135B.3 Ventilation.</b> Mechanical exhaust ventilation systems shall be in compliance with the California Mechanical Code.</u></p>
<p>NEW</p>	<p><u><b>3135B.4 Alarm.</b> An audible and visible chlorine detection alarm system shall be located in the room containing the gas chlorine equipment. The sensor shall be located within 6 inches (152 mm) of the floor level. The system shall continually monitor the room and shall activate when chlorine concentrations in the room exceed a Permissible Exposure Limit of 0.5 ppm. Activation of the alarm shall shut off the chlorine at the source and turn on the lights and ventilation system. The alarm system shall consist of the following:</u></p> <ol style="list-style-type: none"> <li><u>1. An audible alarm capable of producing a sound level of at least 90 decibels; and</u></li> <li><u>2. A visible alarm consisting of a strobe light which is mounted directly over the entrance to the chlorine equipment room. The light shall be visible during daylight hours.</u></li> </ol>

NEW	<u>3135B.5 Illumination.</u> Artificial illumination of at least 50 footcandles as measured 30 inches (750 mm) from the floor shall be provided in the room.
Title 24 Article 680-12(a) Switch location. Switches for the control of mechanical ventilation and lighting fixtures in a room used for gas chlorination equipment shall be located adjacent to the entry door outside the room. Each switch shall be clearly labeled “Turn On Before Entering.”	<u>3135B.6 Switches.</u> Switches for the control of mechanical ventilation and lighting fixtures shall be located adjacent to the entry door outside the room.
Title 24 Article 680-12(b) Equipment Interlocks. The gas chlorine feeding devices shall be interlocked with the pool recirculating pump so that the gas chlorine feeding devices shall not operate when the recirculation pump is off or during the filter backwash cycle.	<u>3135B.7 Equipment interlocks.</u> The gas chlorine feeding device shall be interlocked with the pool recirculating pump so that the gas chlorine feeding device shall not operate when the recirculating pump is off or during the filter backwash.
NEW	<u>3135B.8 Storage.</u> The gas chlorine room shall not be used for the storage of items not related to the use of the gas chlorine equipment.
<b>RECIRCULATION SYSTEM COMPONENTS</b>	
<b>RECIRCULATION AND TREATMENT SYSTEM COMPONENTS</b> Sec. 3123B General Requirements	<b>RECIRCULATION SYSTEM COMPONENTS SECTION 3123B</b> <b>GENERAL REQUIREMENTS</b>
<p><b>3123B.I System Description.</b> Each pool shall be provided with a separate recirculation and treatment system designed for continuous recirculation, filtration and disinfection of the pool water. The system shall consist of pumps, filters, chemical feeders, skimmers or perimeter overflow systems, and all valves, pipes, connections, fittings and appurtenances.</p> <p><b>Exceptions:</b> I. Pools using fresh water equivalent in flow to the requirements of Sec. 3124B .</p> <p><b>NOTE NO. 1:</b> Fresh make-up pool water shall conform to the physical and bacteriological standards of California Code of Regulations Section, Title 22, 65531.</p> <p><b>NOTE NO. 2:</b> Two spa pools shall be permitted to share one recirculation and treatment system providing the flow and chlorination feed rate to each spa pool is individually metered and adjustable.</p>	<p><b>3123B.I System description.</b> Each pool shall be provided with a separate recirculation system designed for the continuous recirculation, filtration and disinfection of the pool water. The system shall consist of pumps, filters, chemical feeders, skimmers or perimeter overflow systems, valves, pipes, connections, fittings and appurtenances.</p> <p><b>Exception:</b> Pools using fresh water equivalent in flow to the requirements of Section 3124B.</p> <p><b>Notes:</b> Fresh makeup pool water shall conform to the <u>water quality</u> standards of Section 65531, Chapter 20, Title 22, California Code of Regulations..</p>
NEW	<u>3123B.2 Equipment</u> All pumps, filters, chemical feeders, skimmers and supplemental equipment shall comply



	with the applicable requirements established by the NSF/ANSI 50-2010 performance standard effective August 2010.
3123B.2 Installation. All recirculation and treatment system components shall be installed according to this Code and in accordance with the equipment manufacturer's written instructions.	3123B.3 Installation All equipment related to pool operations shall be installed and maintained according to this Chapter and in accordance with the equipment manufacturer's written instructions.
3123B.3 Accessibility. All filters, valves, pumps, strainers and equipment requiring adjustment shall be readily accessible for repair and replacement. NOTE: Readily accessible means capable of being reached quickly for operation, renewal, or inspections, without requiring those to whom ready access is requisite to climb over or remove obstacles or to resort to portable ladders, chairs, etc.	3123B.4 Equipment Access All filters, valves, pumps, strainers and equipment shall be readily accessible for repair and replacement.
<b>TURNOVER TIME</b>	
Sec. 3124B Turnover Time	<b>SECTION 3124B TURNOVER TIME.</b>
The recirculation and purification system shall have sufficient capacity to provide a complete turnover of pool water in: 1. One-half hour or less for a spa pool. 2. One hour or less for a wading pool. 3. Two hours or less for a temporary training pool. 4. Six hours or less for all other types of public pools.	The recirculation system shall have the capacity to provide a complete turnover of pool water in: 1. One-half hour or less for a spa pool; 2. <u>One-half hour or less for a spray ground;</u> 3. One hour or less for a wading pool; 4. Two hours or less for a <u>medical</u> pool; and 5. Six hours or less for all other types of public pools.
<b>RECIRCULATION PIPING SYSTEM AND COMPONENTS</b>	
Sec. 3125B Recirculation Piping System and Components	<b>SECTION 3125B RECIRCULATION PIPING SYSTEM AND COMPONENTS</b>
3125.B.1 Line Sizes. Piping systems, including all parts and fittings other than inlet devices or venturi throats, shall be sized so that the flow velocity shall not exceed 10 feet per second, excepting that the flow velocity shall not exceed 8 feet per second in any copper piping or in any pump suction piping.	3125B.1 Line sizes <u>Pipes</u> shall be sized so flow velocity of piping systems including all parts and fittings other than inlet devices or venturi throats shall not exceed <u>6 feet per second (1.829 m/s) in any suction or copper piping and 8 feet per second (2.438 m/s) in any portion of the return system.</u>
NEW	3125B.1.1 <u>Materials</u> All pipe, tube and fittings shall comply with the applicable standards for potable water system materials set forth in Chapter 6 of the California Plumbing Code.

<p><b>3125.B.2 Gauges for Filters.</b> A gauge shall be provided on each filter influent and effluent line. Each gauge shall have a scale range approximately 1¼ times the maximum anticipated working pressure and shall be accurate within 2 percent of scale. A vacuum gauge shall be provided for suction-type filters.</p>	<p><b>3125B.2 Gauges.</b> A <u>pressure and vacuum gauge</u> shall be provided <u>for each pump system</u>. Each gauge shall have a scale range approximately 1¼ times the maximum anticipated working pressure or vacuum and shall be accurate within 2 percent of scale.</p>
<p><b>3125.B.3 Flow Meter.</b> The recirculation system shall be provided with a flow meter, accurate within 10 percent of actual flow.</p>	<p><b>3125B.3 Flow meter.</b> A <u>flow meter</u> shall be provided on <u>each recirculation system</u> accurate to within 10 percent of flow <u>and installed according to the manufacturer's written instructions with increments in the range of normal flow.</u></p>
<p><b>3125.B.4 Strainers.</b> A hair-and-lint strainer shall be provided on the suction side of the recirculation pump. <b>Exception:</b> A pump used with a vacuum filter where the filter elements are not removed for cleaning.</p>	<p><b>3125B.4 Basket strainers.</b> A <u>basket</u> strainer shall be provided on the suction side of the recirculation pump. <u>A basket strainer will not be required on pumps connected to vacuum filters where the filter elements are not removed for cleaning.</u></p>
<p><b>3125.B.5 Backwash Piping.</b> Piping, including necessary valves conforming to Section 3125B.1 shall be provided for each filter vessel or element which is of a type requiring periodic backwashing.</p>	<p><b>3125B.5 Backwash piping.</b> Piping, including necessary valves conforming to Section 3125B.1, shall be provided for each filter vessel or element which <u>requires</u> periodic backwashing.</p>
<p><b>3125.B.6 Valves.</b> Valves shall be accessible for operation and repair and shall not be located under any required deck area surrounding a pool. Valves, or other approved means of control shall be installed on all recirculation, backwashing, and drain system lines which require shutoff isolation, adjustment, or control of the rate of flow. Each valve shall be identified with appropriate markings affixed directly to or near the valve.</p>	<p><b>3125B.6 Valves.</b> Valves shall not be located <u>in</u> any deck area surrounding a pool. Valves shall be installed on all recirculation, backwashing and drain system lines which require shutoff isolation, adjustment or control of the rate of flow. Each valve shall be installed in the equipment area and <u>labeled as to its purpose.</u></p>
<p><b>RECIRCULATION PUMP CAPACITY</b></p>	
<p><b>Sec. 3126B (formerly 2-9034) Recirculation Pump Capacity</b></p>	<p><b>SECTION 3126B</b> <b>RECIRCULATION PUMP CAPACITY.</b></p>
<p><b>3126B.1</b> Pumps shall have design capacity at the following heads:</p> <ol style="list-style-type: none"> <li>1. Pressure Diatomaceous Earth---At least 60 feet.</li> <li>2. Vacuum Diatomaceous Earth---Twenty inches vacuum on the suction side and 40 feet total head.</li> <li>3. Rapid Sand-At least 45 feet.</li> <li>4. High Rate Sand-At least 60 feet.</li> </ol>	<p><b>3126B.1</b> <u>Pool recirculation pumps</u> shall have the following <u>total dynamic head capacities</u>:</p> <ol style="list-style-type: none"> <li>1. <u>Pressure diatomaceous earth filters.</u> At least 60 feet (<u>18,288 mm</u>);</li> <li>2. <u>Vacuum diatomaceous earth filters.</u> Twenty inches (<u>508 mm</u>) vacuum on the suction side and 40 feet (<u>12,192 mm</u>) total <u>dynamic head</u>;</li> <li>3. <u>Rapid sand filters</u> - At least 45 feet (<u>13,716 mm</u>);</li> <li>4. <u>High rate sand filters</u> - At least 60 feet (<u>18,288 mm</u>); and</li> </ol>

	<u>5. Cartridge filters - At least 60 feet (18,288 mm).</u>
3126B.2 Pumps with other hydraulic (flow-head) characteristics shall be permitted which comply with the flow capacity in Section 3124B	3126B.2 Pumps with other <u>total dynamic head capacities shall be permitted provided the turnover times are maintained as required in Section 3124B.</u>
<b>WATER SUPPLY INLETS</b>	
Sec. 3127B Water Supply Inlets	SECTION 3127B  WATER SUPPLY INLETS
3127B.1 General. The pool shall be supplied with water by means of a permanently installed pipe line from a public water supply system holding a permit from the Department of Health Services or from another approved source. Exception: The enforcing agency may exempt spa pools, temporary pools, and pools less than 1,500 gallons capacity from having to use permanently installed fill lines.	3127B.1 General. <u>Each</u> pool shall be supplied with <u>potable</u> water by means of a permanently installed pipeline from a public water supply system holding a permit from the <u>California Department of Public Health</u> or from a source <u>approved by the enforcing agent.</u>
3127B.2 Backflow Protection. There shall not be a direct connection between any domestic water supply system and the pool or its piping system unless protected against backflow in an approved manner.	3127B.2 Backflow prevention. There shall <u>be no</u> direct connection between any <u>potable</u> water supply system and the pool or its piping system unless protected <u>by a backflow prevention device accordance with Chapter 6 of the California Plumbing Code.</u>
3127B.3 Air Gap Separation for Pool Fill Inlets. Water supply inlets to a pool shall be installed not less than 1 inch nor less than two pipe diameters above the overflow rim of the pool. Over-the-rim spouts shall be installed under a diving board or shall be properly guarded to prevent tripping. Exception: Vacuum breakers, or other backflow prevention devices, may be used instead of air-gap separation. Such devices shall be installed on the discharge side of the last inlet valve with the critical level not less than six inches above the overflow rim of the swimming pool.	REMOVED
<b>FILTERS</b>	
Sec. 3128B Filters (All Types)	SECTION 3128B  FILTERS (ALL TYPES)
3128B.1 General Requirements. All filters, regardless of type, shall be designed and constructed to withstand normal and continuous use without deterioration	3128B.1 General requirements. All filters, regardless of type, shall be designed and constructed <u>according to the applicable requirements established by the NSF/ANSI</u>

<p>which could affect filter operation. Each filter shall comply with all of the following provisions:</p> <ol style="list-style-type: none"> <li>1. Maintain clean and clear pool water under anticipated operation conditions.</li> <li>2. Structural or functional failures shall not permit the passage of unfiltered water.</li> <li>3. Filtration surfaces shall be easily disassembled and inspected.</li> <li>4. Filtration surfaces shall be easily restored to the design capacity.</li> <li>5. Filter parts shall be capable of resisting electrolytic corrosion (galvanic electric currents) due to the use of dissimilar metals.</li> </ol>	<p><u>50-2010 performance standard effective August 2010.</u></p>
<p><b>3128B.2 Maximum Pressure Drop.</b> The maximum pressure drop of a pressure-type filter, measured from the filter housing inlet to the filter housing discharge, shall not exceed 3 psi when initially operating at design flow rate.</p>	<p>REMOVED</p>
<p><b>3128B.3 Installation.</b> Each filter vessel and element shall be installed, piped and provided with necessary valves so that it can be isolated from the system for repairs and backwashed individually.</p>	<p><b>3128B.2-Installation</b> Each filter vessel shall be installed, piped and provided with valves so that it can be isolated from the recirculation system for repairs and backwashing.</p>
<p><b>3128B.4 Air Release.</b> When the design of the filter permits accumulation of air in the top of the housing or vessel, the filter vessel shall be equipped with an air release valve connected at the top of the housing that will expel air which enters the filter vessel or tank.</p>	<p>REMOVED</p>
<p><b>3128B.5 Underdrain System.</b> The underdrain system for sand filters shall provide uniform distribution and collection of the flow during filtering and backwashing. The underdrain system shall be constructed of corrosion-resistant material and shall be nonclogging.</p>	<p>REMOVED</p>
<p><b>3128B.6 Freeboard.</b> For sand filters, not less than 10 inches of freeboard shall be provided between the upper surface of the filter sand and the lowest portion of the pipes or drains which serve as overflows during backwashing.</p>	<p>REMOVED</p>
<p><b>RAPID SAND PRESSURE FILTERS</b></p>	
<p>Sec. 3129B Rapid Sand-Pressure Filters</p>	<p>SECTION 3129B  RAPID SAND PRESSURE FILTERS</p>

	<u>In addition to the requirements for all filters as indicated in Section 3128B, the following apply to rapid sand pressure filters.</u>
3129B.1 Flow Rates. The filtration rate shall not exceed 3 gpm per square foot. The design backwash rate shall not be less than 12 gpm per square foot of filter area. NOTE: See also Section 3128B and 3131B for other requirements.	3129B.1 Flow rates. The filtration rate shall not exceed 3 gpm per square foot <u>(122.24 L/m per m<sup>2</sup>) of filter area.</u> The <del>design</del> backwash rate shall not be less than <u>15 gpm per square foot (611.2 L/m per m<sup>2</sup>) of filter area.</u>
3129B.2 Filter Media. The filter shall contain not less than 20 inches of depth of sand and not less than 10 inches of filter gravel above the underdrain system.	3129B.2 Filter media. The filter shall contain not less than a <u>20-inches (508 mm) depth of media</u> and not less than a <u>10-inches (254 mm) depth</u> of filter gravel above the underdrain system.
3129B.2.1 The filter sand shall have an effective particle size of 0.3 to 0.5 mm and a uniformity coefficient of not more than 1.75.	3129B.2.1 The filter <u>media</u> shall have an effective particle size <u>between 0.40 and 0.55 millimeters</u> and a uniformity coefficient <u>not exceeding</u> 1.75.
3129B.2.2 The filter gravel shall be graded and placed to provide uniform flow distribution from the underdrain system and to support the bed of filter sand without loss of sand to the pool or without development of jet streams or channeling in the filtration media.	3129B.2.2 The filter gravel shall be <u>sized</u> and placed to provide uniform flow distribution from the underdrain system and to support the bed of filter sand without loss of sand to the pool or without development of jet streams or channeling in the filtration media.
3129B.3 Coagulant Addition. Facilities with dosage control features shall be provided for adding coagulating chemicals ahead of the filter when required by the enforcing agency.	REMOVED
<b>DIATOMACEOUS EARTH FILTERS</b>	
Sec. 3130B (formerly 2-9038) Diatomaceous Earth Filters	SECTION 3130B  DIATOMACEOUS EARTH FILTERS <u>In addition to the requirements for all filters as indicated in Section 3128B, the following apply to diatomaceous earth filters.</u>
3130B.1 Flow Rates. The filtration rate for both pressure and vacuum type of diatomaceous earth filters shall not exceed 2 gpm per square foot, excepting that filters designed for continuous feeding of filter aid shall not exceed 2 ½ gpm per square foot.	3130B.1 Flow rates. The filtration rate for both pressure and vacuum diatomaceous earth filters shall not exceed 2 gpm per square foot <u>(81.49 L/m per m<sup>2</sup>) of filter area.</u>

<p><b>3130B.2 Precoating.</b> Provisions shall be made for precoating with diatomaceous earth filter aid. Continuous feeding of filter aid shall be required in a pool with a water surface area 2000 square feet or more, and the continuous feeding equipment shall be capable of feeding not less than 0.1 pound per 24 hours per square foot of filter area.</p>	<p>REMOVED</p>
<p><b>HIGH-RATE SAND FILTERS</b></p>	
<p>Sec. 3131B High-Rate Sand Filters</p>	<p style="text-align: center;">SECTION 3131B</p> <p style="text-align: center;">HIGH-RATE SAND FILTERS</p> <p><u>In addition to the requirements for all filters as indicated in Section 3128B, the following apply to high rate sand filters.</u></p>
<p><b>3131B.1 Permissible Use.</b> Sand filters operating at filtration rates higher than the maximum rate specified in Section 3129B shall be permitted by the enforcing agency under the conditions as set forth in Section 3105B .</p>	<p><b>3131B.1 Flow rates.</b> <u>Maximum and minimum flow rates for backwash and filtration shall be maintained according to the applicable requirements established by the NSF/ANSI 50-2010 performance standard effective August 2010.</u></p>
<p><b>3131B.2 Design and Operating Requirements.</b> A sand filter permitted under Sections 3105B.1, 3105B.2, and 3105B.3 shall comply with the following requirements instead of the requirements contained in Section 3129B .</p> <ol style="list-style-type: none"> <li>1. The filter shall contain not less than 12 inches of depth of filter sand.</li> <li>2. The filter sand shall not have an effective particle size greater than 0.45 mm and a uniformity coefficient not greater than 1.50.</li> <li>3. The design backwash rate shall not be less than 15 gpm per square foot of filter area.</li> <li>4. The filter bed shall not show any signs of migration or vary more than 1 inch on the surface after 15 minutes of backwashing followed by 15 minutes of filtration.</li> </ol> <p>NOTE: See Section 3128B for other requirements</p>	<p><b>3131B.2</b> <u>The filter media shall have an effective particle size between 0.40 and 0.55 mm and a uniformity coefficient not exceeding 1.75.</u></p>
<p>NEW</p>	<p><b>3131B.</b> <u>The backwash rate for a high rate sand filter shall be a minimum of 15 gpm per square foot of filter area.</u></p>

**CARTRIDGE FILTERS**

NEW	<p style="text-align: center;"><b>SECTION 3132B</b></p> <p style="text-align: center;"><b><u>CARTRIDGE FILTERS.</u></b></p> <p><u>In addition to the requirements for all filters as indicated in Section 3128B, the following apply to cartridge filters.</u></p>
NEW	<p><u>3132B. The filtration rate shall not exceed 0.375 gpm per square foot of filter area.</u></p>
NEW	<p><u>3132B.2 An approved wash down area equipped with potable water shall be provided in the pool equipment area with permanently installed drainage piping discharging to the public sewer or wastewater system approved by the enforcing wastewater agency. The filter vessel shall be capable of being drained and shall be equipped with an indirect drain for the purpose of draining the entire contents of the filter vessel. Drainage and backwash piping shall be considered indirect waste and installed in accordance with the requirements of Chapter 8 of the California Plumbing Code.</u></p>
NEW	<p><u>3132B.3 An additional set of filter elements shall be available for installation while the existing filter elements are cleaned.</u></p>

**CHEMICAL FEEDERS**

Sec. 3132B Chemical Feeders	<p style="text-align: center;"><b>SECTION 3133B</b></p> <p style="text-align: center;"><b><u>CHEMICAL FEEDERS</u></b></p>
<p>All chemical feeders, including disinfectant feeders, and their auxiliary components shall comply with all of the provisions of this Section. NOTE: Chemical feeders include those used for solutions, slurries, or solids and also include auxiliary parts such as pumps, strainers, tubing connections, tanks, injection fittings, and other required components.</p>	<p>All chemical feeders including disinfectant feeders and the auxiliary <u>feeders used for solutions, slurries or solids, along with components such as pumps, strainers, tubing connections, tanks and injection fittings</u> shall comply with the provisions of this section.</p>
<p><b>3132B.1 General Design Requirements.</b> Chemical feeder equipment shall comply with all of the following:</p> <p>1. Equipment shall be capable of being easily disassembled for cleaning and repair.</p>	<p><b><u>3133B.1 General design requirements.</u></b> <u>The chemical feeder equipment shall:</u></p> <p>1. <u>Be maintained and repaired according to</u></p>

<p>2. Equipment shall be constructed of corrosion-resistant materials.</p> <p>3. Equipment shall be constructed to permit repeated adjustments without loss of output rate accuracy if equipped with an adjustable output rate device.</p> <p>4. Equipment shall be constructed to minimize a stoppage from chemicals intended to be used therein or from foreign materials that may be contained in said chemicals.</p>	<p><u>manufacturers' specifications;</u></p> <p>2. <u>Be constructed with an adjustable output rate device to permit repeated adjustments without loss of output rate accuracy and adjusted by an automatic chemical monitoring and control system; and</u></p> <p>3. <u>Meet the applicable requirements established by the NSF/ANSI 50-2010 performance standard effective August 2010.</u></p>
<p><b>3132B.2 Piping.</b> Piping used for the chemical feeder and its auxiliary equipment shall be resistant to the chemical and erosion action of the chemicals intended to be used therein and shall be installed to permit cleaning or otherwise to prevent clogging of the parts with chemicals.</p>	<p><b>3133B.2 Piping.</b> Piping used for the chemical feeder and its auxiliary equipment shall be resistant <u>to corrosion or chemical deterioration.</u></p>
<p><b>3132B.3 Installation.</b> The feeder and its auxiliary equipment shall be constructed and installed to prevent uncontrolled discharge or siphonage of chemicals and fumes directly into the pool, its recirculation system, or the pool area.</p>	<p><b>3133B.3 Installation.</b> <u>Chemical feeders and associated components shall be constructed and installed to prevent uncontrolled discharge or siphoning of chemicals and fumes directly into the pool, its recirculation system, the pool area or ancillary facilities.</u></p>
<p><b>DISINFECTANT FEEDERS</b></p>	
<p><b>Sec. 3133B (formerly 2-9041) Disinfectant Feeders</b></p>	<p><b><u>SECTION 3134B</u></b></p> <p><b>DISINFECTANT FEEDERS</b></p>
<p>Disinfectant feeders shall comply with the provisions contained in this Section in addition to the provisions contained in Section 3132B .</p>	<p><u>Disinfectant feeders shall comply with applicable requirements established by the NSF/ANSI 50-2010 performance standard effective August 2010 for disinfectant feeders. In addition to the requirements for chemical feeders as indicated in Section 3133B, the following apply to disinfectant feeders.</u></p>
<p><b>3133B.1 Minimum Capacity.</b> The disinfectant feeder shall be capable of supplying not less than the equivalent of 3 pounds of chlorine per day (PPD) per 10,000 gallons of pool water capacity.  <b>Exception:</b> A feeder of lesser capacity shall be permitted when it can be demonstrated to the enforcing agency that the lesser capacity feeder can comply with</p>	<p><b>3134B.1 Minimum Capacity.</b>  <u>All feeders shall be capable of supplying not less than the equivalent of 3 pounds (1 kg) of 100 percent available chlorine per day per 10,000 gallons (37,850 L) of pool water capacity.</u></p>



<p>the disinfection requirements of California Code of Regulations Section, Title 22, 65529.</p>	
<p><b>3133B.2 Rate of Flow Adjustment.</b> Each feeder shall have a graduated and clearly marked rate of flow adjustment feature capable of providing disinfectant flows from 25 percent to 100 percent of rated capacity. The graduated markings shall be accurate within 10 percent of the flow rate at any setting.</p>	<p><u><b>3134B.2 Rate of flow adjustment.</b> A visible means of determining the rate of flow through the device shall be provided for each disinfectant feeder.</u></p>
<p><b>3133B.3 Compressed Chlorine Gas Disinfection Equipment.</b> Compressed chlorine gas disinfectant equipment shall comply with the provisions contained in this subsection in addition to the provisions contained in Sections 3133B.1 and 3133B.2 NOTE: See Section 3122B for special construction requirements of a room containing compressed chlorine gas disinfectant equipment.</p>	<p><u><b>3134B.3 Compressed chlorine gas disinfectant equipment.</b> Chlorine gas shall not be dispensed directly into the water of a pool except as an aqueous solution through the return line of the recirculation system.</u></p>
<p><b>3133B.3.1 Chlorine Containers.</b> Each chlorine gas container or cylinder shall be firmly secured to prevent accidental movement. A precaution cap shall be provided in place at all times when the cylinder is not connected to the chlorinator.</p>	<p><u><b>3134B.3.1 Compressed gas containers.</b> Each container or cylinder shall be secured to prevent accidental movement. A valve protection cap shall be provided to cover the discharge valve at all times when the cylinder is not connected to the dispensing system.</u></p>
<p><b>3133B.3.2 Container Scale.</b> A means of weighing chlorine containers shall be provided in the gas chlorinator room.</p>	<p><u><b>3134B.3.2 Container scale.</b> Compressed gas chlorine containers in use shall be on a scale in the gas chlorinator room.</u></p>
<p><b>3133B.3.3 Chlorine Feeding Device.</b> In addition to the requirements contained in Section 3133B (a), the chlorine feeding device shall be capable of delivering chlorine in aqueous solution at maximum design rate. The device shall not allow the backflow of water into the chlorine solution container. The device shall not allow the release of chlorine gas to the atmosphere under normal operating conditions. The devices shall be designed and installed to conduct chlorine gas leaks to the outdoors during an accident or an interruption of the water supply.</p>	<p><u><b>3134B.3.3 Chlorine feeding device.</b> The chlorine feeding device shall be capable of delivering chlorine in an aqueous solution at the maximum design rate. The device shall not allow the backflow of pool water into the chlorine container. The device shall not allow the release of chlorine gas to the atmosphere under normal operating conditions. The device shall be designed and installed to conduct chlorine gas leaks to the outdoors during a release of chlorine gas or an interruption of the water supply.</u></p>
<p><b>3133B.3.4 Piping.</b> Piping carrying chlorine gas under pressure shall not be located outside the chlorination equipment room</p>	<p><u><b>3134B.3.4 Piping.</b> Piping carrying chlorine gas under pressure shall not be located outside the gas chlorination equipment room.</u></p>
<p><b>POOL SKIMMING SYSTEMS</b></p>	
<p>Sec. 3134B Pool Fittings</p>	<p>SECTION 3136B</p>

	<u>POOL SKIMMING SYSTEMS</u>
<p>The pool shall be equipped with one or more skimming methods which when combined shall be capable of continually withdrawing not less than 75 percent of the required circulation capacity, to provide continuous skimming of the water surface, and to provide an overflow drainage system.</p>	<p>The pool shall be equipped with one or more skimming methods <u>to provide continuous skimming of the pool water and</u> shall be capable of continually withdrawing not less than 75 percent of the required <u>flow rate</u>.</p>
<p><b>3134B.1 Surface Skimmers.</b> Each surface skimmer shall comply with all of the following provisions.</p> <ol style="list-style-type: none"> <li>1. The skimmer shall be of the built-in-type, recessed into the pool wall.</li> <li>2. Each skimmer shall be individually adjustable for the rate of flow with either an external or internal device.</li> <li>3. The skimmer weir shall automatically adjust to variations in the pool water level over a range of not less than 4 inches.</li> <li>4. The skimmer shall be provided with an air-lock protective device which shall not permit leakage of air into the recirculation suction piping system. This device shall not leak more than 3 gpm of water during normal operation.</li> <li>5. Each skimmer shall be provided with a removable and cleanable screen or basket to trap large solids.</li> <li>6. There shall be not less than one skimmer for each 500 square feet of pool water surface area, or fractional part thereof.</li> <li>7. The skimmer shall be constructed with suitable materials and methods to withstand anticipated use conditions.</li> <li>8. Each skimmer shall be located in relation to pool inlets to aid recirculation and skimming.</li> </ol> <p><b>Exception:</b> Skimmers shall not be used as the required overflow devices on a pool with a water surface area over 5,000 square feet.</p>	<p><b><u>3136B.1 Surface skimmers.</u></b> Each surface skimmer shall comply with the following provisions:</p> <ol style="list-style-type: none"> <li>1. The skimmer shall be recessed into the pool wall; <u>and</u></li> <li>2. <u>The skimmer shall be individually adjustable for the rate of flow with either an external or internal device; and</u></li> <li>3. <u>If used, a skimmer equalizer suction outlet located on the pool wall shall be connected to at least 2 suction grate assemblies that meet the ASME/ANSI A112.19.8 performance standard and located at least 3 feet (915 mm) apart in any dimension between the drains; and</u></li> <li>4. <u>The skimmer weir shall automatically adjust to variations in the pool water level over a range of not less than 4 inches (102 mm); and</u></li> <li>5. <u>The skimmer shall be provided with an air lock protective device which shall not permit leakage of air into the recirculation suction piping system. This device shall not leak more than 3 gpm (11.356 L/m) of water during normal operations; and</u></li> <li>6. <u>Each skimmer shall be provided with a removable and cleanable screen or basket to trap objects. The screen or basket shall be accessible through an opening in the deck above the skimmer; and</u></li> <li>7. <u>There shall be a minimum of one skimmer for every 500 square feet or less of pool water surface area or an adequate number to meet 100 percent of pump flow at the manufacturer's maximum flow rating, whichever is greater; and</u></li> <li>8. <u>Each skimmer shall be located in relation to pool inlets to aid recirculation and surface skimming; and</u></li> <li>9. <u>All surface skimmers shall comply with applicable requirements established by the NSF/ANSI 50-2010 performance standard effective August 2010.</u></li> </ol>
<p><b>3134B.2 Perimeter Overflow Systems.</b> A perimeter overflow system shall comply with all of the following provisions.</p>	<p><b><u>3136B.2 Perimeter overflow systems.</u></b> A perimeter overflow system shall <u>be required in pools whose water surface area equals or exceeds 5,000 square feet (464.52</u></p>

	<p>m<sup>2</sup>). <u>Perimeter overflow systems shall be designed by an engineer or architect as defined by this Chapter who has experience working on public pools and shall comply with the following provisions:</u></p>
<p>1. <b>Location.</b> The overflow system shall be built into the walls and extend completely around the pool except where steps require interruption.</p>	<p>1. <b>Location.</b> The overflow system shall be <u>integrated with the pool structure</u> and extend completely around the pool <u>parallel to the pool deck</u> except where <u>an entry or exit may require interruption</u>;</p>
<p>2. <b>Channel Detail.</b> The overflow channel shall be not less than 3 inches deep, the section shall not diverge with depth, and the width of the bottom shall be not less than 3 inches. The opening beneath the coping into the overflow system shall be a minimum of 4 inches beneath the coping in any direction measured radially from the inner edge of the overflow channel lip.</p>	<p>2. <b>Channel detail.</b> The overflow channel shall be not less than 3 inches (76 mm) deep, the section shall not diverge with depth of the channel, and the width of the bottom shall be not less than 3 inches (76 mm). The opening beneath the coping into the overflow system shall be a minimum of 4 inches (102 mm) beneath the coping in any direction measured radially from the inner edge of the overflow channel lip;</p>
<p>3. <b>Channel Lip.</b> The overflow channel lip shall not be more than 12 inches below the level of the deck. The lip edge shall be rounded and shall not be thicker than 2 ½ inches nor thinner than 1 inch from the top 2 inches.</p>	<p>3. <b>Channel lip.</b> The overflow channel lip shall be not more than 12 inches (<u>305 mm</u>) below the level of the coping or deck. The lip edge shall be rounded and shall be not thicker than 2½ inches (<u>64 mm</u>) or thinner than 1 inch (<u>25 mm</u>) for the top 2 inches (<u>51 mm</u>);</p>
<p>4. <b>Channel Covering.</b> Covered overflow channels shall be permitted providing a bather cannot enter it or get his arms or legs caught in the cover.</p>	<p>4. <b>Channel covering.</b> Covered overflow channels shall be permitted provided <u>the openings do not exceed ½ inch in the smaller dimension</u>;</p>
<p>5. <b>Channel Outlets.</b> Overflow channel outlets shall be not less than 2 ½ inches in diameter, spaced not more than 15 feet apart, and the channel bottom slope to the drain shall be not less than ¼ inch per foot (1 in 48). Exception: Other drain spacing or channel bottom slope shall be permitted if hydraulically designed in accordance with acceptable engineering principles.</p>	<p>5. <b>Channel outlets.</b> Channel outlet spacing and channel bottom slope shall be <u>hydraulically designed by an engineer or architect as defined by this Chapter who has experience working on public pools</u>;</p>
<p>6. <b>Channel Outlet Covers.</b> Overflow channel outlets shall be provided with a clear opening area in the grating not less than 1.5 times the cross-sectional area of the outlet required in Section 3134B.2 5.</p>	<p>6. <b>Channel outlet covers.</b> Overflow channel outlet covers shall be <u>accessible for cleaning and maintenance</u>. Openings of the channel outlet covers shall not pass a ½ inch (13 mm) <u>sphere in the smaller dimension</u>;</p>

<p>7. <b>Overflow Drain Piping.</b> Overflow drain piping shall provide drainage of the overflow system, shall carry overflow water to a surge storage chamber, and shall establish hydraulic equilibrium in the pool and return to skimming within 10 minutes after being flooded by a sudden large use of the pool by bathers.</p>	<p>7. <u>Channel drain piping.</u> Channel drain piping shall provide drainage of the overflow system, carry overflow water to a surge basin and return to skimming within 10 minutes after being flooded by a sudden <u>displacement of the pool water by pool users;</u></p>
<p>8. <b>Surge Storage Capacity.</b> A perimeter overflow system shall be provided with a minimum surge storage of not less than 1 gallon per square foot of pool water surface area. Surge storage shall be permitted in the perimeter overflow channel, the overflow water drain piping returning to the surge chamber, and in the surge chamber.</p>	<p>8. <b>Surge storage capacity.</b> A perimeter overflow system shall be provided with a minimum surge storage <u>capacity</u> of not less than 1 gallon per square foot (40.75 L/m<sup>2</sup>) of pool water surface area. Surge storage shall be permitted in the <u>surge basin,</u> perimeter overflow channel <u>and in the channel drain piping</u> returning to the surge basin; and</p>
<p>9. <b>Surge Flow Control.</b> Automatic make-up (fresh) water flow controls with a manual override provision shall be provided to maintain the proper operating pool water level.</p>	<p>9. <u>Water level control.</u> Automatic makeup water flow controls with a manual override <u>control</u> shall be provided to maintain the proper <u>pool water level at the overflow rim.</u></p>
<p><b>POOL FITTINGS</b></p>	
	<p>SECTION 3137B <u>POOL FITTINGS</u></p>
<p><b>3134B.3 Outlets.</b> Each pool shall be provided with a bottom drain and outlets through which circulation shall take place and by which the pool can be emptied. The bottom drain and recirculation outlets shall be covered with grates or other protective devices which shall be removable only with tools. Slots or openings in grates or covers shall not exceed ½ inch in the smaller dimension and shall be of such area, shape and arrangement to prevent physical entrapment or a suction hazard to bathers. <b>Exception:</b> Recirculation outlets for a spa pool shall be either a safety type which cannot be completely covered by any part of the body, or shall be installed in duplicate so as to prevent a suction hazard to bathers.</p>	<p><b>3137B.1 Outlets.</b> Each pool shall be provided with <u>a main drain submerged suction outlet typically located at the bottom of a pool that conducts water to a recirculating pump.</u> <u>Suction outlets shall comply with all of the following provisions:</u></p> <ol style="list-style-type: none"> <li>1. <u>Each pump on a pool system shall be connected to at least two suction outlets. The suction outlets shall be hydraulically balanced and symmetrically plumbed through one or more “T” fittings and shall be separated by a distance of at least 3 feet (915 mm) apart in any dimension between the suction outlets;</u></li> <li>2. <u>All suction outlets shall be equipped with suction fittings that meet the ASME/ANSI A112.19.8 performance standard;</u></li> <li>3. <u>The velocity of the suction piping installed between the suction outlets shall not exceed 3 feet per second (1.8 mps); and</u></li> </ol>
<p><b>3134B.4 Hydrostatic Devices.</b> In areas of anticipated high ground water table, an approved hydrostatic relief device shall be installed.</p>	<p><b>4. <u>Hydrostatic Relief Devices.</u></b> In areas with a high groundwater table, <u>or as required by local plumbing codes,</u> a hydrostatic relief device shall be</p>

	<p><u>installed. When used in conjunction with a safety vacuum release system, the hydrostatic relief device must meet the manufacturer's installation requirements for the safety vacuum release system.</u></p>
<p><b>3134B.5 Inlet Fittings.</b> Each pool shall be provided with not less than two recirculation system inlets for the first 10,000 gallons capacity and one additional inlet for each additional 10,000 gallons capacity, or fractional part thereof. <b>Exception:</b> A spa pool shall be provided with not less than one inlet.</p>	<p><b>3137B.2 Inlet Fittings</b> Each pool shall be provided with not less than two recirculation system inlets for the first 10,000 gallon (37,850 L) capacity and one additional inlet for each additional 10,000 gallon (37,850 L) or less capacity.</p>
<p><b>3134B.5.1 Construction.</b> Inlet fittings shall not protrude greater than 1 ¼ inches into the pool and shall be shaped, rounded and smooth.</p>	<p><b>3137B.2.1 Construction.</b> Inlet fittings shall not protrude greater than 1¼ inches (32 mm) into the pool and shall be shaped, rounded and smooth.</p>
<p><b>3134B.5.2 Location.</b> Inlet fittings shall be located greater than 18 inches below the water line, except for a spa pool or wading pool. One floor inlet shall be provided for each 10,000 gallons of pool capacity for a pool which exceeds 40 feet in width. Inlet fittings shall be separated by at least 10 feet and shall be located to ensure uniform circulation.</p>	<p><b>3137B.2.2 Location.</b> Inlet fittings shall be located no less than 18 inches (457 mm) below the waterline, except for a spa pool or wading pool. Inlet fittings shall be separated by at least 10 feet (3048 mm) and shall be located so as to ensure uniform circulation.</p>
<p><b>3134B.5.3 Adjustment.</b> Provisions shall be made for adjusting the volume of flow through each inlet. Wall inlets shall be capable of adjusting the direction of flow and to produce sufficient velocity to impart a substantial circulatory movement to the pool water.</p>	<p><b>3137B.2.3 Adjustment.</b> Provisions shall be made for adjusting the volume of flow through each inlet. Wall inlets shall be capable of adjusting the direction of flow and to produce sufficient velocity to impart a substantial circulatory movement to the pool water.</p>
<p>NEW</p>	<p><b>3137B.2.4 Floor Inlets.</b> Pools that are greater than 40 feet (12,192 mm) in width or 3,000 square feet (278.7 mm<sup>2</sup>) in surface area shall have floor-mounted return inlets. The number of floor inlets shall be in compliance with Section 3137B.2. All floor inlet fittings shall be located to provide uniform circulation and shall be installed so as to be flush with the surface of the pool bottom.</p>
<p><b>SPA POOL SPECIAL REQUIREMENTS</b></p>	
<p>Sec. 3135B (formerly 2-9043) Spa Pool Special Requirements</p>	<p style="text-align: center;"><b><u>SECTION 3138B</u></b></p> <p style="text-align: center;"><b>SPA POOL SPECIAL REQUIREMENTS</b></p>
<p><b>3135B.1 Aeration System.</b> A spa pool aeration and/or jet system shall be completely separate from its filtration system and shall not be interconnected with any non-</p>	<p><b>3138B.1 Aeration system.</b> A spa pool aeration and/or jet system shall be completely separate from <u>the recirculation system</u> and shall not be interconnected</p>

spa pool.	with any <u>other pool</u> .
3135B.2 Maximum Operating Temperature. The maximum allowable water temperature shall be 104 °F for a spa pool.	<u>3138B.2 Maximum operating temperature.</u> The allowable water temperature <u>of a spa pool shall not exceed 104° F (57.8° C).</u>
NEW	<u>3138B.3 Surface area.</u> The water surface area of a spa pool shall not exceed 250 square feet (23.23 m <sup>2</sup> ).
NEW	<u>3138B.4 Maximum depth.</u> The water depth in a spa pool shall not exceed 4 feet (1220 mm).
Title 24 Article 680-13. Emergency Switch for Spa Pool. A clearly labeled emergency shut-off switch for the control of both the recirculation system and the aeration and /or jet system shall be installed adjacent to the spa pool.	<u>3138B.5 Emergency shut off switch.</u> A clearly labeled emergency shut off switch for the control of both the recirculation system and the aeration and/or jet system shall be installed adjacent to the spa pool.
<b>CLEANING SYSTEMS</b>	
Sec. 3136B (formerly 2-9044) Cleaning Systems	<u>Section 3140B</u>  <b>CLEANING SYSTEMS</b>
A built-in or portable type vacuum cleaning system shall be provided which is capable of removing sediment from all parts of the pool floor. When jet-type units are used, they shall be provided with approved type backflow protection for the water system.	<u>A vacuum cleaning system shall be available</u> which is capable of removing sediment from all parts of the pool floor. <u>A cleaning system using potable water shall be provided with an approved backflow protection device as required by the California Department of Public Health under Sections 7601 to 7605, Article 2, Title 17, California Code of Regulations. No cleaning system shall operate in the pool when the pool is open or available for use by pool users. Built-in vacuum suction lines shall not be installed in the pool.</u>
<b>SOLAR HEATING INSTALLATIONS</b>	
NEW	<u>SECTION 3139B</u>  <u>SOLAR HEATING INSTALLATIONS</u>
NEW	<u>3139B.1 Solar heating systems shall comply with the following:</u> <ol style="list-style-type: none"> <li><u>1. Solar heating system suction outlets shall comply with Section 3137B; and</u></li> <li><u>2. Solar heating system suction outlets shall be located no closer than 5 feet (1525 mm) to any</u></li> </ol>

	<p>pool inlet fitting.</p> <p>3. <u>The installation of a solar heating system on a new or existing pool shall not interfere with the required turnover rate as specified in Section 3124B nor exceed the pipe flow velocities as specified in Section 3125B.1.</u></p>
<b>WASTEWATER DISPOSAL</b>	
<p>Sec. 3137B (formerly 2-9045) Waste Water Disposal</p>	<p><u>SECTION 3141B</u></p> <p>WASTEWATER DISPOSAL.</p>
<p><b>3137B.1 General Requirements.</b> Material cleaned from filters, waste water from temporary training pool showers, and backwash water from any pool system shall be disposed of in a manner which will not create a (public) nuisance.</p>	<p><u><b>3141B.1 General requirements.</b> Material cleaned from filters and backwash water from any recirculation system shall be disposed in a manner that is acceptable to the local wastewater agency and will not create a nuisance. Backwash water shall not be returned to a pool. Pipes carrying wastewater from pools including pool drainage and backwash from filters shall be installed as an indirect waste in accordance with the requirements of Chapter 8 of the California Plumbing Code. Where a pump is used to discharge waste pool water to the drainage system, the pump discharge shall be installed as an indirect waste.</u></p>
<p><b>3137B.1.1 Sand Filters.</b> In accordance with applicable local regulations, the backwash water from a sand filter shall be disposed of to a storm drain or sewer system, dry well, or, when approved, such water may be disposed of by surface or subsurface irrigation.</p>	<p>REMOVED</p>
<p><b>3137B.1.2 Diatomaceous Earth Filters.</b> The backwash waste water from a diatomaceous earth filter shall discharge into a receiving chamber installed to collect the waste diatomaceous earth mixture, or when approved such waste shall be permitted to be disposed of by other means such as to a sanitary sewer.</p>	<p><u><b>3141B.2 Diatomaceous earth filters.</b> The backwash from a diatomaceous earth filter shall discharge into a separation tank that has been installed to collect the waste diatomaceous earth mixture. The wastewater from the separation tank shall discharge into a sanitary sewer or other disposal system acceptable to the local wastewater agency.</u></p>
<p><b>3137B.1.3 Piping.</b> Pumps and drain piping shall have sufficient capacity to receive pool system backwash without overflow of the pump receiver.</p>	<p><u><b>3141B.3 Piping.</b> Sumps and drain piping shall have sufficient capacity to receive recirculation system backwash without overflow of the sump receiver. The sump shall not permit sewage to enter the surge basin or the pool in the event of a sewage backup</u></p>

<p><b>3137B.1.4 Visual Indicator.</b> A sight glass shall be installed on the waste water discharge line from a filter.  <b>Exception:</b> The sight glass shall not be required when an air-gap connection from the filter vessel to a sewer or other drainage system is clearly visible to the operator during actual backwash operation.</p>	<p><b>3141B.4 Visual indicator.</b> <u>Where direct observation of the backwash discharge is not visible to the operator during backwash operations, a sight glass shall be installed on the wastewater discharge line.</u></p>
<p><b>3137B.2 Prohibited Connection.</b> No direct connection of the pool or its recirculation system shall be permitted with a sanitary sewer, storm drain or drainage system. When permitted by local regulations, discharge to a sanitary sewer shall be through an air-gap type separation.</p>	<p><b>3141B.5 Prohibited connection.</b> <u>There shall be no direct connection between the pool, its recirculation system or overflow drain to any sanitary sewer, storm drain or drainage system.</u></p>

**ANTI-ENTRAPMENT DEVICES AND SYSTEMS**

<p>NEW</p>	<p><b>SECTION 3162</b></p> <p><b>ANTI-ENTRAPMENT DEVICES AND SYSTEMS</b></p> <p>1. The Legislature finds and declares that the public health interest requires that there be uniform statewide health and safety standards for public swimming pools to prevent physical entrapment and serious injury to children and adults. It is the intent of the Legislature to occupy the whole field of health and safety standards for public swimming pools and the requirements established in this article and the regulations adopted pursuant to this article shall be exclusive of all local health and safety standards relating to public swimming pools.</p> <p>2. As used in this section, the following words have the following meanings:</p> <p>(a) “ASME/ANSI performance standard” means a standard that is accredited by the American National Standards Institute and published by the American Society of Mechanical Engineers.</p> <p>(b) “ASTM performance standard” means a standard that is developed and published by ASTM International.</p> <p>(c) “Main drain” means a submerged suction outlet typically located at the bottom of a swimming pool that conducts water to a recirculating pump.</p>
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	<p>(d) “Public swimming pool” means an outdoor or indoor structure, whether in-ground or above-ground, intended for swimming or recreational bathing, including a swimming pool, hot tub, spa, or nonportable wading pool, that is any of the following:</p> <ul style="list-style-type: none"> <li>(i) Open to the public generally, whether for a fee or free of charge.</li> <li>(ii) Open exclusively to members of an organization and their guests, residents of a multiunit apartment building, apartment complex, residential real estate development, or other multifamily residential area, or patrons of a hotel or other public accommodations facility.</li> <li>(iii) Located on the premises of an athletic club, or public or private school.</li> </ul> <p>(e) “Qualified individual” means a contractor who holds a current valid license issued by the State of California or a professional engineer licensed in the State of California who has experience working on public swimming pools.</p> <p>(f) “Safety vacuum release system” means a vacuum release system that ceases operation of the pump, reverses the circulation flow, or otherwise provides a vacuum release at a suction outlet when a blockage is detected.</p> <p>(g) “Skimmer equalizer line” means a suction outlet located below the waterline and connected to the body of a skimmer that prevents air from being drawn into the pump if the water level drops below the skimmer weir. However, a skimmer equalizer line is not a main drain.</p> <p>(h) “Unblockable drain” means a drain of any size and shape that a human body cannot sufficiently block to create a suction entrapment hazard.</p> <p>3. Subject to Subdivision (4), an ASME/ANSI or ASTM performance standard relating to anti-entrapment devices or systems or an amendment or successor to, or later published edition of an ASME/ANSI or ASTM performance standard relating to anti-</p>
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entrapment devices or systems shall become the applicable standard in California 90 days after publication by ASME/ANSI or ASTM, respectively, provided that the performance standard or amendment or successor to, or later published edition is approved by the department within 90 days of the publication of the performance standard by ASME/ANSI or ASTM, respectively. Notwithstanding any other law, the department may implement, interpret, or make specific the provisions of this section by means of a policy letter or similar instruction and this action by the department shall not be subject to the rulemaking requirements of the Administrative Procedure Act (Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code).

4. Subject to Subdivision (7), every public swimming pool shall be equipped with anti-entrapment devices or systems that comply with ASME/ANSI performance standard A112.19.8, as in effect December 31, 2009, or any applicable ASME/ANSI performance standard that has been adopted by the department pursuant to Subdivision (3).
5. Subject to Subdivisions (6) and (7), every public swimming pool with a single main drain that is not an unblockable drain shall be equipped with at least one or more of the following devices or systems that are designed to prevent physical entrapment by pool drains:
  - (a) A safety vacuum release system that has been tested by a department-approved independent third party and found to conform to ASME/ANSI performance standard A112.19.17, as in effect on December 31, 2009, or any applicable ASME/ANSI performance standard that has been adopted by the department pursuant to Subdivision (3), or ASTM performance standard F2387, as in effect on December 31, 2009, or any applicable ASTM performance standard that has been adopted by the department pursuant to Subdivision (3).
  - (b) A suction-limiting vent system with a tamper-resistant atmospheric opening, provided that it conforms to any applicable ASME/ANSI or ASTM performance standard that has been

	<p>adopted by the department pursuant to Subdivision (3).</p> <p>(c) A gravity drainage system that utilizes a collector tank, provided that it conforms to any applicable ASME/ANSI or ASTM performance standard that has been adopted by the department pursuant to Subdivision (3).</p> <p>(d) An automatic pump shut-off system tested by a department-approved independent third party and found to conform to any applicable ASME/ANSI or ASTM performance standard that has been adopted by the department pursuant to Subdivision (3).</p> <p>(e) Any other system that is deemed, in accordance with federal law, to be equally effective as, or more effective than, the systems described in paragraphs (a) to (d), inclusive, at preventing or eliminating the risk of injury or death associated with pool drainage systems.</p> <p>6. Every public swimming pool constructed on or after January 1, 2010, shall have at least two main drains per pump that are hydraulically balanced and symmetrically plumbed through one or more “T” fittings, and that are separated by a distance of at least three feet in any dimension between the drains. A public swimming pool constructed on or after January 1, 2010, that meets the requirements of this subdivision, shall be exempt from the requirements of Subdivision (5).</p> <p>7. A public swimming pool constructed prior to January 1, 2010, shall be retrofitted to comply with Subdivisions (4) and (5) by no later than July 1, 2010, except that no further retrofitting is required for a public swimming pool that completed a retrofit between December 19, 2007, and January 1, 2010, that complied with the Virginia Graeme Baker Pool and Spa Safety Act (15 U.S.C. Sec. 8001 et seq.) as in effect on the date of issue of the construction permit, or for a nonportable wading pool that completed a retrofit prior to January 1, 2010, that complied with state law on the date of issue of the construction permit. A public swimming pool owner who meets the exception described in this subdivision shall do one of the following prior to September 30, 2010:</p>
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	<ul style="list-style-type: none"><li>a. File the form issued by the department pursuant to subdivision (g), as otherwise provided in subdivision (h).</li><li>b. File a signed statement attesting that the required work has been completed.</li><li>c. Provide a document containing the name and license number of the qualified individual who completed the required work.</li><li>d. Provide either a copy of the final building permit, if required by the local agency, or a copy of one of the following documents if no permit was required:<ul style="list-style-type: none"><li>(i) A document that describes the modification in a manner that provides sufficient information to document the work that was done to comply with federal law.</li><li>(ii) A copy of the final paid invoice. The amount paid for the services may be omitted or redacted from the final invoice prior to submission.</li></ul></li></ul> <p>8. Prior to March 31, 2010, the department shall issue a form for use by an owner of a public swimming pool to indicate compliance with this section. The department shall consult with county health officers and directors of departments of environmental health in developing the form and shall post the form on the department's Internet Web site. The form shall be completed by the owner of a public swimming pool prior to filing the form with the appropriate city, county, or city and county department of environmental health. The form shall include, but not be limited to, the following information:</p> <ul style="list-style-type: none"><li>a. A statement of whether the pool operates with a single or split main drain.</li><li>b. Identification of the type of anti-entrapment devices or systems that have been installed pursuant to Subdivision (4) and the date or dates of installation.</li><li>c. Identification of the type of devices or systems designed to prevent physical entrapment that</li></ul>
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	<p>have been installed pursuant to Subdivision (5) in a public swimming pool with a single main drain that is not an unblockable drain and the date or dates of installation or the reason why the requirement is not applicable.</p> <p>d. A signature and license number of a qualified individual who certifies that the factual information provided on the form in response to paragraphs (a) to (c), inclusive, is true to the best of his or her knowledge.</p> <p>9. A qualified individual who improperly certifies information pursuant to Paragraph (d) of Subdivision (8) shall be subject to potential disciplinary action at the discretion of the licensing authority.</p> <p>10. Except as provided in Subdivision (7), each public swimming pool owner shall file a completed copy of the form issued by the department pursuant to this section with the city, county, or city and county department of environmental health in the city, county, or city and county in which the swimming pool is located. The form shall be filed within 30 days following the completion of the swimming pool construction or installation required pursuant to this section or, if the construction or installation is completed prior to the date that the department issues the form pursuant to this section, within 30 days of the date that the department issues the form. The public swimming pool owner or operator shall not make a false statement, representation, certification, record, report, or otherwise falsify information that he or she is required to file or maintain pursuant to this section.</p> <p>11. In enforcing this section, health officers and directors of city, county, or city and county departments of environmental health shall consider documentation filed on or with the form issued pursuant to this section by the owner of a public swimming pool as evidence of compliance with this section. A city, county, or city and county department of environmental health may verify the accuracy of the information filed on or with the form.</p> <p>12. To the extent that the requirements for public wading pools imposed by Section 116064 conflict</p>
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with this section, the requirements of this section shall prevail.

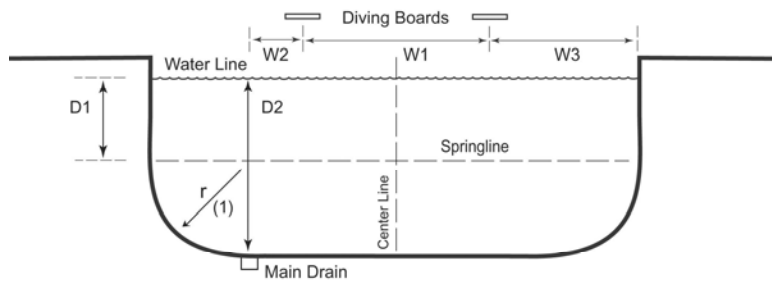
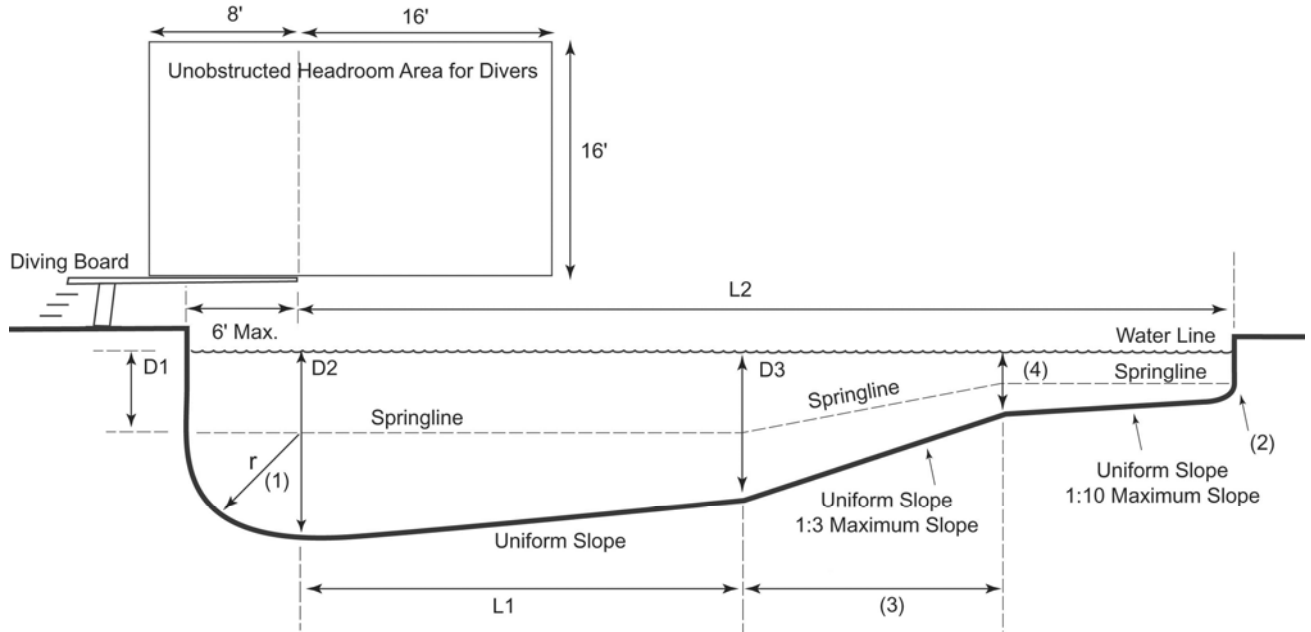
- a. Until January 1, 2014, the department may assess an annual fee on the owners of each public swimming pool, to be collected by the applicable local health department, in an amount not to exceed the amount necessary to defray the department's costs of carrying out its duties under Section 116064.1 and this section but in no case shall this fee exceed six dollars (\$6).
- b. The local health department may retain a portion of the fee collected pursuant to paragraph (a) in an amount necessary to cover the administrative costs of collecting the fee, but in no case to exceed one dollar (\$1).
- c. The local health department shall bill the owner of each public swimming pool in its jurisdiction for the amount of the state fee. The local health department shall transmit the collected state fee to the Controller for deposit into the Recreational Health Fund, which is hereby created in the State Treasury. The local health department shall not be required to take action to collect an unpaid state fee, but shall submit to the department, every six months, a list containing the name and address of the owner of each public swimming pool who has failed to pay the state fee for more than 90 days after the date that the bill was provided to the owner of the public swimming pool.
- d. Owners that are exempt from local swimming pool permit fees shall also be exempt from the fees imposed pursuant to this subdivision.
- e. Except as provided in paragraph (b), all moneys collected by the department pursuant to this section shall be deposited into the Recreational Health Fund. Notwithstanding Section 16305.7 of the Government Code, interest and dividends on moneys in the Recreational Health Fund shall also be deposited in the fund. Moneys in the fund shall, upon appropriation by the Legislature, be available to the department for carrying out its duties under Section 116064.1 and this section and shall not be redirected for any other purpose.

# Revised/Added Figures and Diagrams

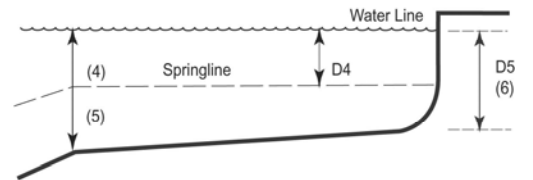
FIGURE 31B-1

DEPTHS AND CLEARANCES FOR POOLS WITH DIVING BOARDS ABOVE GREATER THAN 30 INCHES (762 mm) ABOVE THE WATER LINE

LONGITUDINAL SECTION



Transverse Section Deep End Through Main Drain



Transverse Section Shallow End

Table 31B-1

		<u>Depth of Water</u>					<u>Length of Section</u>				
<u>Boards and Platforms</u>	<u>Di m</u>	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>L1</u>	<u>L2</u>	<u>W1</u>	<u>W2</u>	<u>W3</u>
<u>1-Meter Board</u>	<u>Min</u>	<u>6' 0'</u>	<u>12' 0"</u>	<u>11' 0'</u>	<u>2' 6"</u>	<u>0' 0"</u>	<u>20' 0"</u>	<u>30' 0"</u>	<u>10' 0"</u>	<u>5' 0"</u>	<u>11' 0"</u>
<u>3-Meter Board</u>	<u>Min</u>	<u>7' 0"</u>	<u>13' 0"</u>	<u>12' 0"</u>	<u>2' 6"</u>	<u>0' 0"</u>	<u>20' 0"</u>	<u>40' 0"</u>	<u>10' 0"</u>	<u>5' 0"</u>	<u>12' 0"</u> 2

Notes for Figure 31B-1 and Table 31B-1:

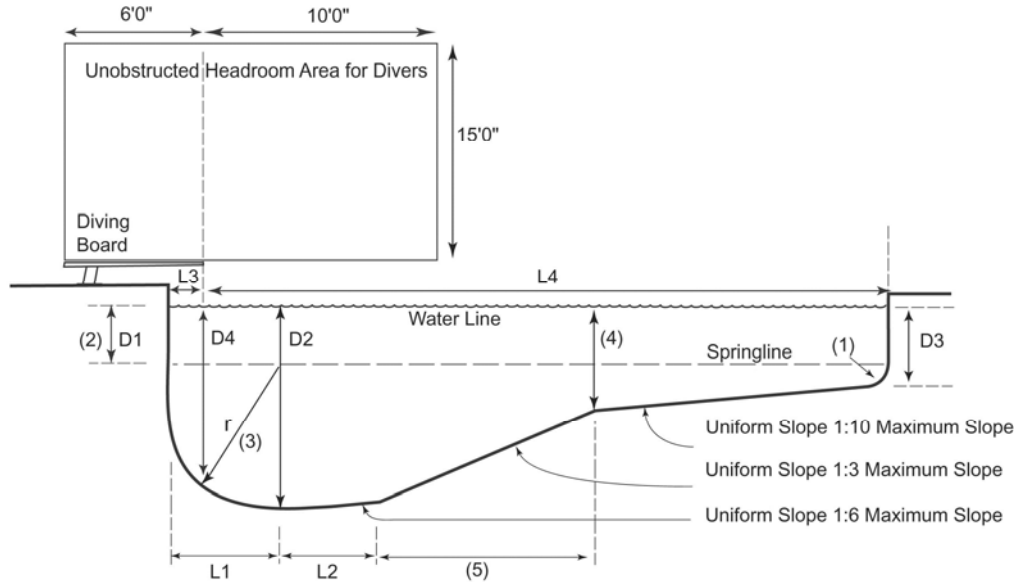
1. Maximum radius shall equal D2 minus D1 dimensions.
2. Radius at the shallow end shall be not less than 6 inches nor more than 12 inches.
3. The length of a section is based on the maximum slope and other maximum and minimum dimensions.
4. Where there is a break in slope, the break shall be located at a water depth equal to 4'6".
5. The springline depth at (4) shall not be less than 2'6" nor more than 4'0".
6. The maximum water depth shall be 3'6".
7. The main drain shall be located to provide complete drainage of the pool.



FIGURE 31B-2

DEPTHS AND CLEARANCES FOR POOLS WITH DIVING BOARDS  
30 INCHES (762 MM) OR LESS ABOVE THE WATER LINE.

LONGITUDINAL SECTION



TRANSVERSE SECTION AT D2 D-4

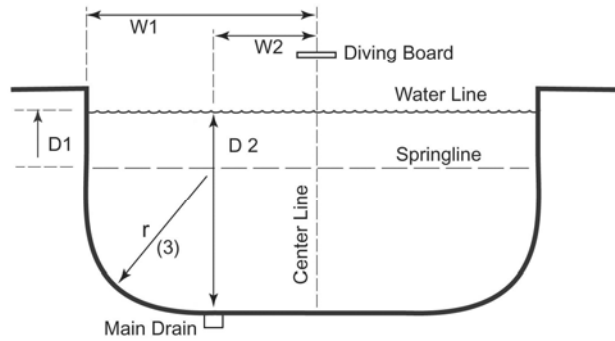


Table 31B-2

Dimension	Depth of Water				Length of Section					
	D1	D2	D3	D4	L1	L2	L3	L4	W1	W2
Minimum	2'6"	8'6"	0'0"	7'0"	6'0"	6'0"	2'6"	30'0"	9'0"	3'0"
Maximum	---	---	3'6"	---	10'0"	---	4'0"	---	---	---

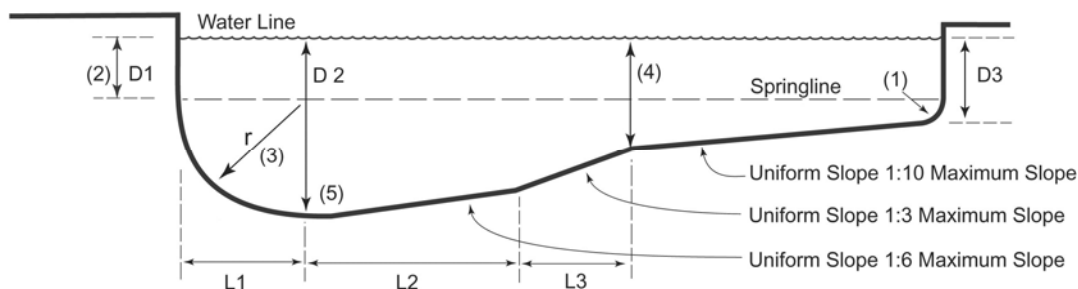
Notes for Figure 31B-2 and Table 31B-2:

1. Radius at the shallow end shall be a minimum of 0'6" and a maximum of 1'0".
2. Springline D1 shall extend to the break in slope between the shallow area and the deep area.
3. Maximum radius shall equal D2 minus D1 dimensions.
4. Where there is a break in slope, the break in slope shall be located at a water depth equal to 4'6".
5. Length of section based on maximum slope and other maximum or minimum dimensions.
6. The main drain shall be located to provide complete drainage of the pool.

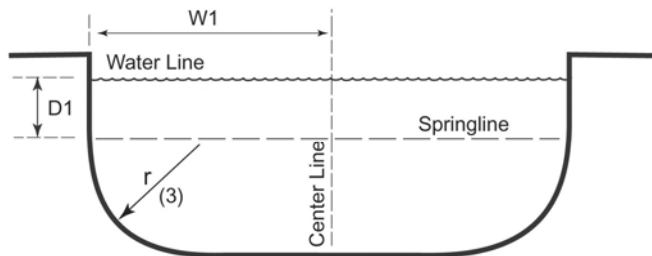
FIGURE 31B-3

DEPTHS AND CLEARANCES FOR POOLS WITHOUT DIVING BOARDS

LONGITUDINAL SECTION



**TRANSVERSE SECTION AT D2**



**Table 31B-3a**

Pools with Maximum Water Depth ≤ 6'0"

<u>Dimension</u>	<u>Depth of Water</u>			<u>Length of Section</u>			
	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>L1</u>	<u>L2</u>	<u>L3</u>	<u>W1</u>
<u>Minimum</u>	<u>2'6"</u>	<u>(5)</u>	<u>0'0"</u>	<u>3'6"</u>	<u>3'0"</u>	<u>3'0"</u>	<u>6'0"</u>
<u>Maximum</u>	<u>---</u>	<u>6'0"</u>	<u>3'6"</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

**Table 31B-3b**

Pools with Maximum Water Depth > 6'0"

<u>Dimension</u>	<u>Depth of Water</u>			<u>Length of Section</u>		
	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>L1</u>	<u>L2</u>	<u>W1</u>
<u>Minimum</u>	<u>2' 6"</u>	<u>(5)</u>	<u>0'0"</u>	<u>3'6"</u>	<u>3'0"</u>	<u>7'6"</u>
<u>Maximum</u>	<u>---</u>	<u>---</u>	<u>3'6"</u>	<u>---</u>	<u>---</u>	<u>---</u>

Notes for Figure 31B-3 and Tables 31B-3a and 31B-3b:

1. Radius at the shallow end shall be a minimum of 0'6" and a maximum of 1'0".
2. Springline D1 shall extend to the break in slope between the shallow area and the deep area.
3. Maximum radius shall equal D2 minus D1 dimensions.
4. Where there is a break in slope, the break in slope shall be located at a water depth equal to 4'6".
5. The main drain shall be located to provide complete drainage of the pool.

FIGURE 31B-4

PERPENDICULAR FENCING DIMENSIONS ON SLOPING GROUND

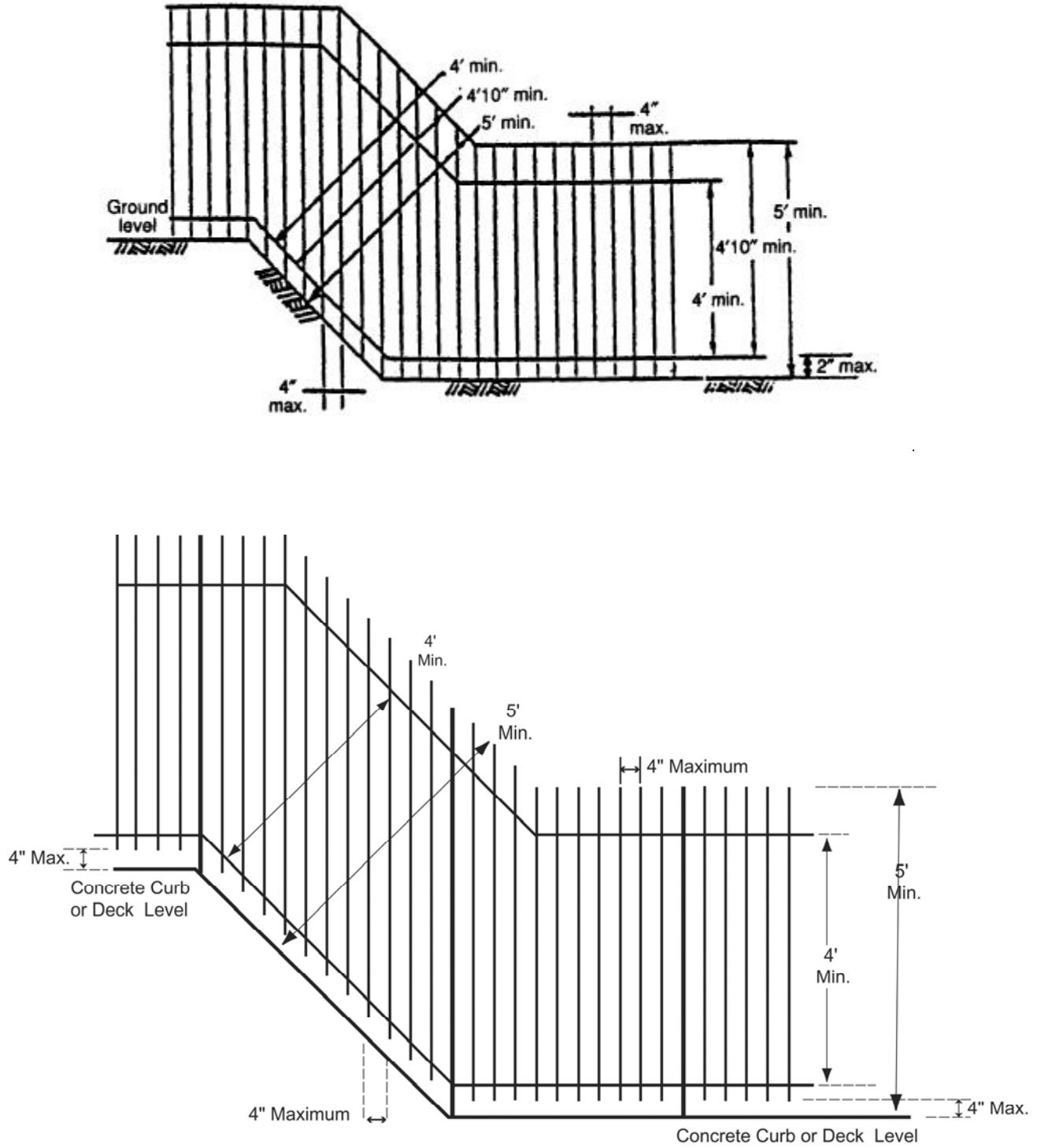


FIGURE 31B-5  
EFFECTIVE FENCING HEIGHT

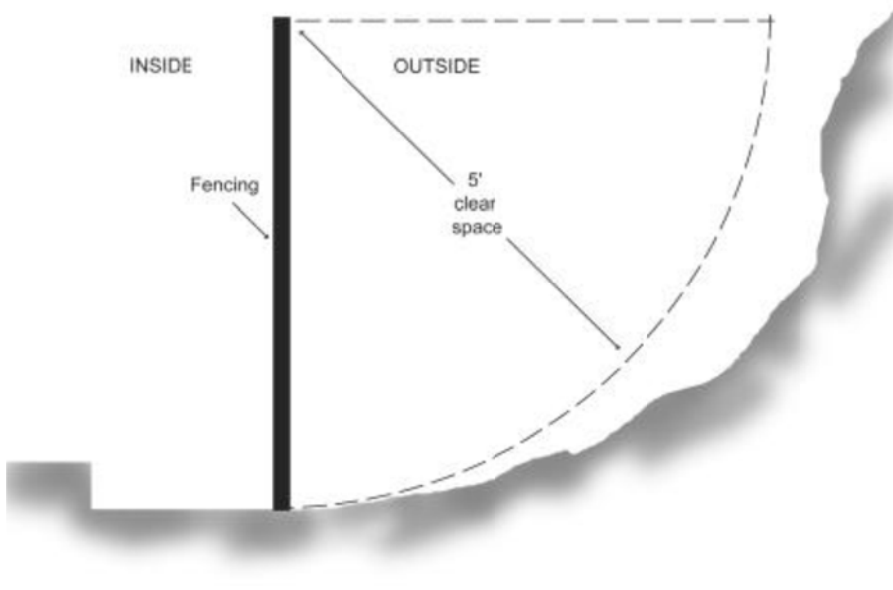
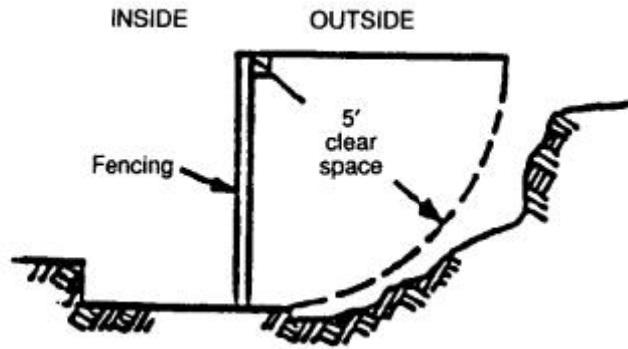
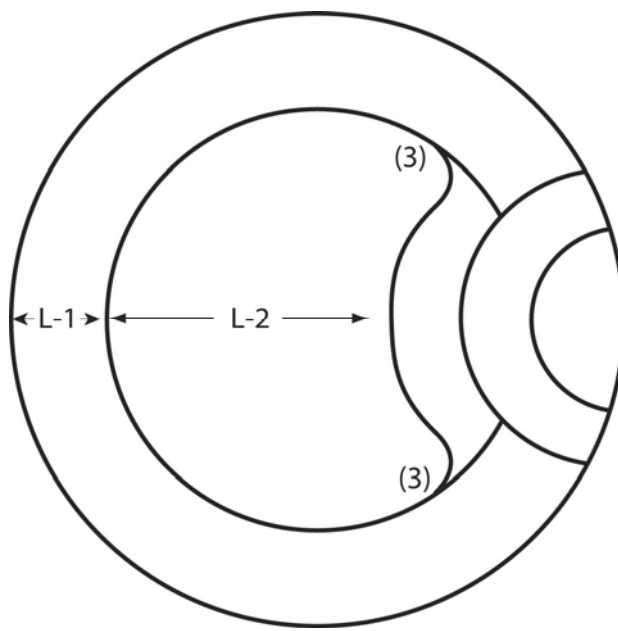


FIGURE 31B-6  
DEPTHS AND DIMENSIONS FOR SPA POOLS

Top View



Transverse Section

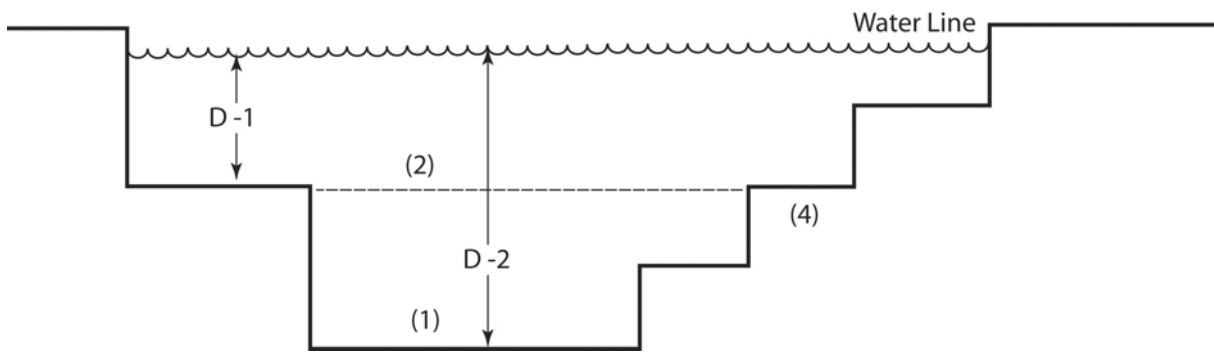


Table 31B-6

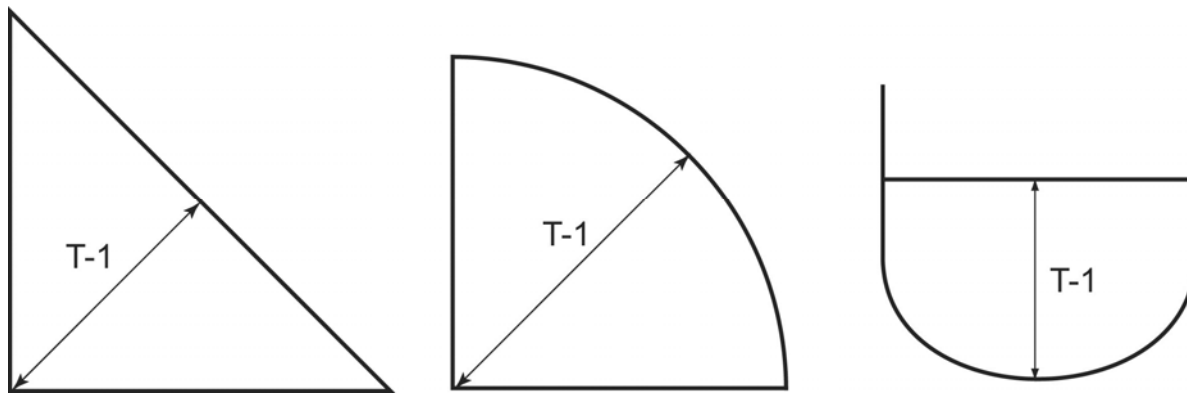
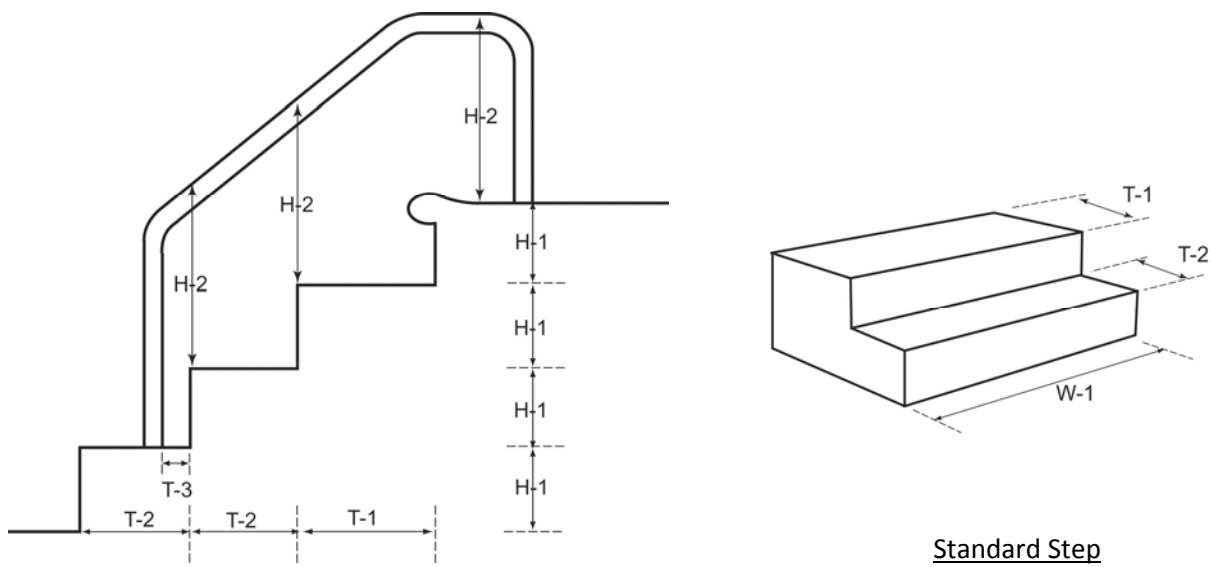
<u>Dimension</u>	<i>Depth of Water</i>		<i>Length of Sections</i>	
	<u>D1</u>	<u>D2</u>	<u>L1</u>	<u>L2</u>
<u>Minimum</u>	//////	<u>24"</u>	<u>12"</u>	<u>24"</u>
<u>Maximum</u>	<u>24"</u>	<u>42"</u>	<u>24"</u>	//////

Notes for Figure 31B-6 and Table 31B-6:

1. Bottom slope shall not exceed 1:10 and must be uniform.
2. Bench ramping shall not exceed 1:10 uniform slope, measured at the inner circumference of the bench.
3. Six inch minimum radius at "pinch points."
4. See Sections 3111B and 3112B for step and handrail dimensions.

FIGURE 31B-7

*STAIR AND HANDRAIL DIMENSIONS*



Triangular Step

Convex Step

Concave Step



Table 31B-7

<u>Dimensions</u>	<u>T-1 Standard</u>	<u>T-1 Triangular, Concave, Convex</u>	<u>T-2</u>	<u>T-3</u>	<u>W-1</u>	<u>H-1</u>	<u>H-2</u>
<u>Minimum</u>	<u>14"</u>	<u>21"</u>	<u>12"</u>	<u>3"</u>	<u>24"</u>	<u>6"</u>	<u>28"</u>
<u>Maximum</u>	<u>18"</u>	<u>24"</u>	<u>16"</u>	<u>---</u>	<u>---</u>	<u>12"</u>	<u>36"</u>