

4. **Channel covering.** Covered overflow channels shall be permitted, providing bathers cannot enter it or get their arms or legs caught in the cover.

5. **Channel outlets.** Overflow channel outlets shall not be less than 2½ inches (64 mm) in diameter spaced not more than 15 feet (4572 mm) apart and the channel bottom slope to the drain shall not be less than ¼ inch (6.4 mm) per foot.

Exception: Other drain spacing or channel bottom slope shall be permitted if hydraulically designed in accordance with acceptable engineering principles.

6. **Channel outlet covers.** 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.

7. **Overflow drain piping.** 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.

8. **Surge storage capacity.** A perimeter overflow system shall be provided with a minimum surge storage of not less than 1 gallon per square foot (40.75 L/m²) 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.

9. **Surge flow control.** Automatic makeup (fresh) water-flow controls with a manual override provision shall be provided to maintain the proper operating pool water level.

3134B.3 Outlets. 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 (12.7 mm) in the smaller dimension and shall be of such area, shape and arrangement to prevent physical entrapment or a suction hazard to bathers.

Exception: 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.

3134B.4 Hydrostatic devices. In areas of anticipated high groundwater table, an approved hydrostatic relief device shall be installed.

3134B.5 Inlet Fittings. Each pool shall be provided with not less than two recirculation inlets for the first 10,000-gallon (37 850 L) capacity and one additional inlet for each additional 10,000-gallon (37 850 L) capacity, or fractional part thereof.

Exception: A spa pool shall be provided with not less than one inlet.

3134B.5.1 Construction. Inlet fittings shall not protrude greater than 1¼ inches (32 mm) into the pool and shall be shaped, rounded and smooth.

3134B.5.2 Inlet fittings shall be located greater than 18 inches (457 mm) below the waterline, except for the spa pool or wading pool. One floor inlet shall be provided for each 10,000 gallons (37 850 L) of pool capacity for a pool which exceeds 40 feet (12 192 mm) in width. Inlet fittings shall be separated by at least 10 feet (3048 mm) and shall be located to ensure uniform circulation.

3134B.5.3 Adjustment. 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.

SECTION 3135B SPA POOL SPECIAL REQUIREMENTS

3135B.1 Aeration system. A spa pool aeration and/or jet system shall be completely separate from its filtration system and shall not be interconnected with any nonspa pool.

3135B.2 Maximum operating temperature. The maximum allowable water temperature shall be 104°F (57.8°C) for a spa pool.

SECTION 3136B CLEANING SYSTEMS

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.

SECTION 3137B WASTE WATER DISPOSAL

3137B.1 General requirements. 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.

3137B.1.1 Sand filters. 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.

3137B.1.2 Diatomaceous earth filters. 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.

3137B.1.3 Piping. Sumps and drain piping shall have sufficient capacity to receive pool system backwash without overflow of the sump receiver.