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Drainage	4.9.2.7.1.3	Exception 3: As required for drainage.	
Devices	4.9.2.7.2	Piping, tubes, drain bodies, grates, and attachment and restraint devices shall be corrosion-resistant and rated for the chemical environment(s) present including floor drain bodies and grates.	B
Wall Penetrations	4.9.2.7.3	All wall penetrations shall be sealed air-tight and shall be commensurate with the rating of the wall assembly.	A
Sealing Materials	4.9.2.7.3.1	Sealing material(s) shall be compatible with the wall assembly and the chemical environment(s) present.	
Combustion Equipment	<b>4.9.2.8</b>	<b><i>Combustion Equipment in Interior Chemical Storage Spaces</i></b>	
Installed	4.9.2.8.1	No combustion device or appliance shall be installed in a chemical-storage space, or in any other place where it will be exposed to the air from a chemical-storage space.	A
Exception	4.9.2.8.1.1	Exception 1: A combustion device or appliance which meets all of the following requirements shall be acceptable: <ul style="list-style-type: none"> <li>1) The device or appliance is required for one or more processes integral to the function of the room, such as space heat.</li> <li>2) The device is listed for such use.</li> <li>3) The device as installed is acceptable to the AHJ.</li> </ul>	
Electrical Equipment	<b>4.9.2.9</b>	<b><i>Electrical Equipment in Chemical-Storage Spaces</i></b>	
Comply	4.9.2.9.1	Electrical equipment and wiring methods used for or in chemical-storage spaces shall comply with MAHC Section 4.6.2.	A
Ozone Rooms	<b>4.9.2.10</b>	<b><i>Ozone Rooms</i></b>	
Only Ozone	4.9.2.10.1	An ozone equipment room shall not be used for	A

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Keyword	Section	Code	Grade
<i>Equipment</i>		storage of chemicals, solvents or any combustible materials, other than those required for the operation of the re-circulation and ozone generating equipment.	
<i>Emergency Ventilation</i>	4.9.2.10.2	Rooms which are designed to include ozone equipment shall be equipped with an emergency ventilation system capable of 6 air changes per hour.	
<i>Exhaust Intake</i>	4.9.2.10.2.1	The exhaust intake shall be located approximately six inches from the floor, on the opposite side of the room from the make-up air intake.	
<i>On Command</i>	4.9.2.10.2.2	The emergency ventilation system shall be so arranged as to run on command of an ozone-leak alarm or on command of a manual switch.	
<i>Manual Switch</i>	4.9.2.10.2.3	The manual emergency ventilation switch shall be located outside the room and near the door to the ozone room.	
<i>Below Grade</i>	4.9.2.10.3	Ozone rooms which are below grade shall be equipped with forced-draft ventilation capable of 6 air changes per hour.	
<i>Exhaust Intake</i>	4.9.2.10.3.1	The exhaust intake shall be located approximately six inches from the floor, on the opposite side of the room from the make-up air intake.	
<i>Arranged</i>	4.9.2.10.3.2	Such ventilation system shall be so arranged as to: <ol style="list-style-type: none"> <li>1) Run automatically concurrent with the ozone equipment and for at least a time allowing for 15 air changes after the ozone equipment is stopped, and</li> <li>2) Run upon activation of the ozone detection and alarm system, and</li> <li>3) Run on command of a manual switch.</li> </ol>	
<i>Manual Ventilation Switch</i>	4.9.2.10.3.3	The manual ventilation switch shall be located	A

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		outside the room and near the door to the ozone room.	
Signage	4.9.2.10.4	A sign shall be posted on the exterior of the entry door, stating "DANGER - GASEOUS OXIDIZER – OZONE" in lettering not less than 4 inches high.	A
Alarm System	4.9.2.10.5	Rooms containing ozone generation equipment shall be equipped with an audible and visible ozone detection and alarm system.	A
Requirements	4.9.2.10.5.1	The alarm system shall consist of both <ol style="list-style-type: none"> <li>1) an audible alarm capable of producing at least 85 decibels, and</li> <li>2) a visible alarm consisting of a flashing light mounted in plain view of the entrance to the ozone-equipment room.</li> </ol>	
Sensor	4.9.2.10.5.2	The ozone sensor shall be located at a height of 18-24 inches above floor level and shall be capable of measuring ozone in the range of 0-2 parts per million (ppm).	
Ozone Concentration	4.9.2.10.5.3	The alarm system shall alarm when the ozone concentration equals or exceeds 0.1ppm in the room.	
Activation	4.9.2.10.5.4	Activation of the alarm system shall shut off the ozone generating equipment and turn on the emergency ventilation system.	A
Gaseous Chlorination	<b>4.9.2.11</b>	<b><i>Gaseous Chlorination Space</i></b>	
Adequate Size	4.9.2.11.1	A gaseous-chlorination space shall be large enough to house the chlorinator, chlorine storage tanks, and associated equipment as required.	A
Secure Tanks	4.9.2.11.2	A gaseous-chlorination space shall be equipped with facilities for securing tanks.	A
Not Below Grade	4.9.2.11.3	A gaseous-chlorination space shall not be located in a basement or otherwise be below	

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		grade.	
<i>Compressed-Chlorine Gas</i>	4.9.2.11.4	Where installed indoors, compressed-chlorine gas storage containers and associated chlorinating equipment shall be in a separate room constructed to have a fire rating of not less than 1-hour.	
<i>Entry Door</i>	4.9.2.11.5	The entry door to an indoor gaseous-chlorine space shall open to the exterior of the building or structure.	
<i>Pool Deck</i>	4.9.2.11.5.1	The entry door to an indoor gaseous-chlorine space shall not open directly towards a pool or pool deck.	
<i>Inspection Window</i>	4.9.2.11.6	An indoor gaseous-chlorine space shall be provided with a shatterproof gas-tight inspection window.	
<i>Ventilation</i>	4.9.2.11.7	Indoor gaseous-chlorination spaces shall be provided with a spark-proof ventilation system capable of 60 air changes per hour.	
<i>Exhaust-air Intake</i>	4.9.2.11.7.1	The exhaust-air intake of the ventilation system shall be taken at point within six inches of the floor, and on the opposite side of the room from the makeup-air intake.	
<i>Discharge Point</i>	4.9.2.11.7.2	The exhaust-air discharge point shall be <ol style="list-style-type: none"> <li>1) Outdoors, and</li> <li>2) Above adjoining grade level, and</li> <li>3) at least ten feet from any operable window, and</li> <li>4) At least ten feet from any adjacent building.</li> </ol>	
<i>Make-up Intake</i>	4.9.2.11.7.3	The make-up air intake shall be within six inches of the ceiling of the space and shall open directly to the outdoors.	
<i>PPE Available</i>	4.9.2.11.7.4	Personal protective equipment, consisting of at least a gas mask approved by NIOSH for use	

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		with chlorine atmospheres, shall be stored directly outside one entrance to an indoor gaseous-chlorination space.	
SCBA Systems	4.9.2.11.7.5	A minimum of two (2) SCBA systems shall be on hand at all times and two (2) qualified operators are to be involved in the changing of the tanks.	
Stationed Outside	4.9.2.11.7.6	One of the operators should be stationed outside of the chemical room where the operator inside can be seen at all times.	
Emergency Telephone	4.9.2.11.7.7	An emergency direct line telephone shall be located by the door.	
Windows	<b>4.9.2.12</b>	<b>Windows in Chemical Storage Spaces</b>	
Not Required	4.9.2.12.1	Windows in chemical-storage spaces are not required by this code.	
Requirements	4.9.2.12.2	Where a window is to be installed in an interior wall, ceiling, or door of a chemical-storage space, such window <ol style="list-style-type: none"> <li>1) shall have tempered or plasticized glass,</li> <li>2) shall have a corrosion-resistant frame, and</li> <li>3) shall not be operable or capable of being opened.</li> </ol>	B
Exterior Window	4.9.2.12.3	Any chemical-storage-space window in an exterior wall or ceiling shall <ol style="list-style-type: none"> <li>1) Be mounted in a corrosion-resistant frame, and</li> <li>2) Be so protected by a roof, eave, or permanent awning as to minimize the entry of rain or snow in the event of window breakage.</li> </ol>	B
Sealing and Blocking	<b>4.9.2.13</b>	<b>Sealing and Blocking Materials</b>	
Minimize Leakage	4.9.2.13.1	Materials used for sealing and blocking openings in an interior chemical-storage space shall minimize the leakage of air, vapors, or fumes	A

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		from the chemical-storage space.	
<i>Compatible</i>	4.9.2.13.2	Materials used for sealing and blocking openings in an interior chemical-storage space shall be compatible for use in the environment.	
<i>Fire Rating</i>	4.9.2.13.3	Materials used for sealing and blocking openings in an interior chemical-storage space shall be commensurate with the fire rating of the assembly in which they are installed.	
<i>Hygiene Facilities</i>	<b>4.10</b>	<b>Hygiene Facilities</b>	
<i>Water Supply / Disposal</i>	<b>4.11</b>	<b>Water Supply/ Wastewater Disposal</b>	
<i>Water Supply</i>	<b>4.11.1</b>	<b>Water Supply</b>	B
<i>Public Water System</i>	4.11.1.1	Water serving an aquatic venue shall be supplied from a potable water source.	
<i>Other Sources</i>	4.11.1.1.1	Other water sources such as lakes or springs may be approved to serve a swimming POOL by the AHJ.	
<i>Condensate/ Reclaimed Water</i>	4.11.1.1.2	Use of condensate water, collected rain water, or other reclaimed water for water serving a swimming POOL is prohibited.	
<i>Exception</i>	4.11.1.1.3	Exceptions to MAHC Section 4.11.1.1.2 may be made by the AHJ with evidence that such water has met all EPA potable water quality standards.	
<i>Sufficient Capacity</i>	4.11.1.2	The water supply shall have sufficient capacity to simultaneously serve all PLUMBING FIXTURES.	
<i>Refill Pool</i>	4.11.1.2.1	The water supply shall have sufficient capacity and pressure to refill the swimming POOL to the operating water level after backwashing filters and after any splashing or evaporative losses within one hour if the AQUATIC VENUE IS operational at the time of the backwash.	

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		<i>Per MAHC Recirculation and Filtration Module:</i>	
		Automatic makeup water supply equipment shall be provided to maintain continuous skimming of all pools.	
<i>Fill Spout</i>	<b>4.11.2</b>	<b>Fill Spout</b>	B
<i>Hazard</i>	4.11.2.1	If a fill spout is used at a pool, the fill spout shall be located so that it is not a SAFETY hazard to BATHERS.	
<i>Shielded</i>	4.11.2.2	Fill spouts should be shielded so the possibility of it becoming a trip hazard is minimized.	
<i>Open End</i>	4.11.2.3	The open end of fill spouts shall not have sharp edges or protrude more than 2 inches (50 mm) beyond the edge of the pool.	
<i>Air Gap</i>	4.11.2.4	The open end shall be separated from the water by an air gap of at least 1.5 pipe diameters measured from the pipe outlet to the pool.	
<i>Cross-Connection Control</i>	<b>4.11.3</b>	<b>Cross-Connection Control</b>	A
<i>Protected</i>	4.11.3.1	The potable water supply serving a swimming POOL shall be protected against backflow consisting of either of the following: <ol style="list-style-type: none"> <li>1) An acceptable air gap consisting of a vertical distance of not less than 2 pipe diameters of the water supply pipe or 6 inches (150 mm), whichever is greater, over the lowest free-flowing discharge point of the receiving pipe, tank, or vessel. Splash guards that are open to the atmosphere may be used around the air gap, or</li> <li>2) Where permitted, an approved reduced pressure zone (RPZ) backflow preventer installed according to the plumbing CODE and the AHJ.</li> </ol>	
<i>Deck Drains</i>	<b>4.11.4</b>	<b>Deck Drains and Rinse Showers</b>	B

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<i>Sloped</i>	4.11.4.1	The walkway or deck around a swimming POOL shall be properly sloped to deck drains or to the edge of the deck to prevent the accumulation of standing water.	
<i>Discharge</i>	4.11.4.2	If deck drains are provided, the drains shall discharge to the sanitary or storm sewer or as otherwise allowed by the agency having jurisdiction and according to applicable plumbing CODES.	
<i>Area or Linear</i>	4.11.4.3	Deck drains may be either area drains or linear drains. See MAHC Section 4.8.1.3 for deck drain area, and other requirements.	
<i>Rinse Showers</i>	4.11.4.4	Rinse shower drains shall discharge to the sanitary or storm sewer as allowed by the agency having jurisdiction and according to applicable plumbing codes.	
<i>Sanitary Waste</i>	<b>4.11.5</b>	<b>Sanitary Wastes</b>	B
<i>Discharged</i>	4.11.5.1	Wastewater from all PLUMBING FIXTURES in the entire aquatic facility shall be discharged to a municipal sanitary sewer system if available.	
<i>On-Site Sewer System</i>	4.11.5.2	If a municipal sanitary sewer system is not available, all wastewater shall be disposed to an on-site sewer system that is properly designed to receive the entire wastewater capacity.	
<i>Wastewater</i>	<b>4.11.6</b>	<b>Pool Wastewater</b>	B
<i>Discharged</i>	4.11.6.1	Wastewater from an AQUATIC VENUE, including filter backwash water, shall be discharged to a sanitary sewer system having sufficient capacity to collect and treat wastewater or to an on-site sewage disposal system designed for this purpose.	
<i>Storm Water Systems and Surface Waters</i>	4.11.6.1.1	Wastewater shall not be directed to storm water systems or surface waters without appropriate permits from the AHJ or the U.S. EPA.	

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Recovery and Reuse	4.11.6.1.2	A water recovery and reuse system may be submitted to the AHJ for review and approval.	
Ground Surface	4.11.6.2	If a municipal sanitary sewer system is not available, wastewater from an AQUATIC VENUE may be discharged to the ground surface at a suitable location as approved by the AHJ, as long as the wastewater does not cause erosion, and does not create a threat to public health or SAFETY, a nuisance, or unlawful pollution of public waters.	
Capacity	4.11.6.3	The wastewater disposal system shall have sufficient capacity to receive wastewater without flooding when filters are cleaned or when the AQUATIC VENUE is drained.	
Separation Tank for Precoat Media Filters	4.11.6.4	A separation tank shall be provided prior to discharge for backwash water from precoat filters using diatomaceous earth (DE) as a filter medium.	
Discharged	4.11.6.4.1	For precoat filters using perlite or cellulose as a filter medium, the backwash may be discharged to the sanitary sewer unless directed otherwise by the local AHJ.	
Specific Venues	<b>4.12</b>	<b>Specific Venues</b>	
Spas	<b>4.12.1</b>	<b>Spas</b>	
Additional Provisions	4.12.1.1	In addition to the general AQUATIC VENUE requirements stated in this CODE, SPAS shall comply with the additional provisions or reliefs of this section.	
Maximum Water Depth	4.12.1.2	The maximum water depth in spas shall be 4 feet (1.22 m) measured from the designed static water line except for spas that are designed for special use and purposes and approved by the AHJ.	
Exercise Spas	4.12.1.2.1	The water depth for exercise spas shall not exceed 6 feet 6 inches (2.0 m) measured from the	

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		designed static water line.	
<i>Seating</i>	4.12.1.2.2	The maximum submerged depth of any seat or sitting bench shall be 28 inches (0.7 m) measured from the water line.	
<i>Handholds</i>	4.12.1.3	A SPA shall have one (1) or more suitable, slip-resistant handhold(s) around the perimeter and not over 12 inches (0.3 m) above the water line.	
<i>Options</i>	4.12.1.3.1	The handhold(s) may consist of bull-nosed coping, ledges or decks along the immediate top edge of the spa; ladders, steps, or seat ledges; or railings.	
<i>Stairs</i>	4.12.1.4	Interior steps or stairs shall be provided where SPA depths are greater than 24 inches (0.6 m).	
<i>Handrail</i>	4.12.1.4.1	Each set of steps shall be provided with at least one handrail to serve all treads and risers.	
<i>Seating</i>	4.12.1.4.2	Seats or benches may be provided as part of these steps.	
<i>Approach Steps</i>	4.12.1.4.3	Approach steps on the exterior of a spa wall extending above the deck shall also be required unless the raised spa wall is 19 inches or less in height above the deck and it is used as a transfer tier or pivot-seated entry.	
<i>Perimeter Deck</i>	4.12.1.5	A 4 foot (1.22 m) wide, continuous, unobstructed PERIMETER DECK shall be provided on two consecutive or adjacent sides or fifty percent or more of the SPA perimeter.	
<i>Lower Ratio</i>	4.12.1.5.1	The AHJ could consider a lower ratio upon review of an appropriate safety plan that addresses adequate access.	
<i>Coping</i>	4.12.1.5.2	The PERIMETER DECK may include the coping.	
<i>Recessed</i>	4.12.1.5.3	SPAS may be located adjacent to other AQUATIC VENUE as long as they are recessed in the deck.	
<i>Elevated Spas</i>	4.12.1.5.4	Elevated SPAS may be located adjacent to another	

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		AQUATIC VENUE as long as there is an effective BARRIER between the SPA and the adjacent AQUATIC VENUE.	
<i>Minimum Distance</i>	4.12.1.5.5	If an effective BARRIER is not provided, a minimum distance of 4 feet (1.22 m) between the AQUATIC VENUE and SPA is required.	
<i>Depth Marking</i>	4.12.1.6	A minimum of two depth markers shall be provided regardless of the shape or size of the spa.	
<i>Temperature</i>	4.12.1.7	Water temperatures shall not exceed 104°F (40°C).	
<i>Drain</i>	4.12.1.8	A means to drain the SPA shall be provided to allow frequent draining and cleaning.	
<i>Turnover Requirements</i>	4.12.1.9	Turnover Requirements (Recirculation Systems & Filtration TC)	
<i>Overflow Systems</i>	4.12.1.10	Overflow Systems / Gutters / Surface Skimmers (Recirculation Systems & Filtration TC)	
<i>Return Inlets</i>	4.12.1.11	Return Inlets (Recirculation Systems & Filtration TC)	
<i>Bather Load</i>	4.12.1.12	Bather Load (Contamination Burden TC)	
<i>Air Induction System</i>	4.12.1.13	An air induction system, when provided, shall prevent water back up that could cause electrical shock hazards.	
<i>Intake</i>	4.12.1.13.1	Air intake sources shall not permit the introduction of toxic fumes or other CONTAMINANTS.	
<i>Timers</i>	4.12.1.14	The agitation system shall be connected to a minute timer that does not exceed fifteen minutes located out of reach of a BATHER in the spa.	
<i>Emergency Shutoff</i>	4.12.1.15	All SPAS shall have a clearly labeled emergency shutoff or control switch for the purpose of stopping the motor(s) that provide power to the	

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		recirculation system and hydrotherapy or agitation system shall be installed readily accessible to the BATHERS, in accordance with section 680 of the NEC.	
Caution Signs	4.12.1.16	Caution Signs (Risk Management and Safety TC)	
Lifeguarding and Safety Equipment	4.12.1.17	Lifeguarding and Safety Equipment (Risk Management TC and/or Lifeguarding and Bather Supervision TC)	
Waterslides and Catch Pools	4.12.2	Waterslides and Catch Pools	
Design and Construction	4.12.2.1	Design and Construction	
Additional Provisions	4.12.2.1.1	In addition to the general AQUATIC FACILITY requirements stated in this CODE, WATERSLIDES and CATCH POOLS shall comply with the additional provisions or reliefs of this section.	
Recognized Standards	4.12.2.1.2	The following recognized design and construction standards for waterslides shall be adhered to: <ul style="list-style-type: none"> <li>• ASTM F2376-08 Standard Practice for Classification, Design, Manufacture, Construction, and Operation of Water Slide Systems;</li> <li>• ASTM F2469-09 Standard Practice for Manufacturer, Construction, Operation, and Maintenance of Aquatic Play Equipment;</li> <li>• World Water Park Considerations for Operating Safety. 2004. A handbook for Risk Management and Operating Safety at Waterparks.</li> <li>• EN 1069-1:2010 Water Slides – Part 1: Safety Requirements and test methods</li> <li>• EN 1069 -2: 1020 Water Slides – Part 2: Operation and Risk Management.</li> </ul>	
Structural Design	4.12.2.1.3	The structural design of a water slide and the materials used in its construction shall conform with appropriate structural engineering practices.	

Keyword	Section	Code	Grade
<i>Durable Structure</i>	4.12.2.1.4	The structural design of a water slide and the materials used in its construction shall provide a sound, durable structure that will safely sustain all the dead loads, live loads, liquid hydrostatic, and earth pressures encountered.	
<i>Flumes</i>	4.12.2.2	<i>Flumes</i>	
<i>Surfaces</i>	4.12.2.2.1	Flume surfaces shall be inert, nontoxic, smooth and easily cleaned.	
<i>Curves and Turns</i>	4.12.2.2.2	<p>All curves and turns in a FLUME shall be:</p> <ol style="list-style-type: none"> <li>1) Designed so that the impact of users with the walls of the FLUME does not present a hazard;</li> <li>2) Banked so that the forces on the BATHERS keep them safely inside the FLUME under all foreseeable circumstances of operation. Riders must not become airborne unless the waterslide manufacturer allows such activity; and</li> <li>3) Designed so that user should not impact the slide itself in such a way that causes injury, such as from a rapid change in direction or becoming inverted in the waterslide.</li> </ol>	
<i>Curved Sections</i>	4.12.2.2.3	In curved sections of a FLUME, the design of the wall of the FLUME shall cause the outward thrust of the body of the BATHER to be dissipated towards the centerline of the FLUME.	
<i>Dips</i>	4.12.2.2.4	All FLUME VALLEYS and DIPS shall have proper drainage, SAFETY measures that insure a rider cannot fall from the FLUME, and a means of egress in the event the ride malfunctions.	
<i>Flume Walls</i>	4.12.2.2.5	The walls of any FLUME shall be designed so that the continuous and combined action of hydrostatic, dynamic and static loads, as well as normal environmental deterioration do not damage the FLUME bed to the extent of creating a structural failure that presents a hazard of injury to users or that requires frequent patch repairs	

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		that may weaken the structural integrity of the FLUME.	
<i>Flume Exits</i>	<b>4.12.2.3</b>	<b><i>Flume Exits</i></b>	
<i>Catch Pool</i>	4.12.2.3.1	The exit of any FLUME must be designed to ensure that BATHERS enter the CATCH POOL or slide RUNOUT at a safe speed and angle of entry.	
<i>Intersection</i>	4.12.2.3.2	If a slide has two or more FLUMES and there is a point of intersection between the centerlines of any two FLUMES, the distance between that point and the point of exit for each intersecting FLUME must not be less than the slide manufacturer's recommendations.	
<i>Exit into Catch Pools</i>	<b>4.12.2.4</b>	<b><i>Exit into Catch Pools</i></b>	
<i>Water Level</i>	4.12.2.4.1	Slides shall be designed to terminate at or below water level, except for drop slides or unless otherwise permitted by the waterslide manufacturer.	
<i>Perpendicular</i>	4.12.2.4.2	Slides shall be perpendicular to the wall of the POOL at the point of exit unless otherwise permitted by the waterslide manufacturer.	
<i>Exit System</i>	4.12.2.4.3	Slides shall be designed with an exit system which shall be in accordance with the waterslide manufacturer's recommendations and provides for safe entry into the CATCH POOL or slide RUNOUT.	
<i>Other Methods</i>	4.12.2.4.3.1	Other methods shall be acceptable as long as safe exit velocities and proper body position are assured under normal use.	
<i>Flume Exits</i>	4.12.2.4.4	The FLUME exits shall be in accordance with the slide manufacturer's recommendations.	
<i>Point of Exit</i>	4.12.2.4.5	The distance between the point of exit and the side of the POOL opposite the BATHERS as they exit, excluding any steps, shall not be less than the slide manufacturer's recommendations.	

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Keyword	Section	Code	Grade
<i>Catch Pools</i>	<b>4.12.2.5</b>	<b><i>Catch Pools</i></b>	
<i>Turnover Requirements</i>	4.12.2.5.1	Turnover Requirements (Recirculation Systems & Filtration TC)	
<i>Overflow Systems</i>	4.12.2.5.2	Overflow Systems / Gutters / Surface Skimmers (Recirculation Systems & Filtration TC)	
<i>Return Inlets</i>	4.12.2.5.3	Return Inlets (Recirculation Systems & Filtration TC)	
<i>Bather Load</i>	4.12.2.5.4	Bather Load (Contamination Burden TC)	
<i>Steps</i>	4.12.2.5.5	If steps are provided instead of exit ladders or recessed steps with grab rails, a handrail shall be provided at the steps opposite the point of exit from each FLUME.	
<i>Landing Area</i>	4.12.2.5.6	If the water slide FLUME shall end in a swimming pool, the landing area shall be divided from the rest of the AQUATIC VENUE by a float line or as approved by the AHJ.	
<i>Decks</i>	<b>4.12.2.6</b>	<b><i>Decks</i></b>	
<i>Perimeter Deck</i>	4.12.2.6.1	A PERIMETER DECK shall be provided along the exit side of the CATCH POOL.	
<i>Means of Access</i>	<b>4.12.2.7</b>	<b><i>Means of Access</i></b>	
<i>Means of Access</i>	4.12.2.7.1	A walkway, steps, stairway or ramp shall be provided between the CATCH POOL and the top of the FLUME. Refer to MAHC Section 4.8.1.	
<i>Slide Run-outs</i>	<b>4.12.2.8</b>	<b><i>Slide Run-outs</i></b>	
<i>Egress</i>	4.12.2.8.1	Slide run-outs, if used, shall have a planned means of egress, unless one or both of the walls of the run-out are not more than 12 inches (0.3 m) in height.	

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<i>Designed</i>	4.12.2.8.2	Slide run-outs shall be designed in accordance with the slide manufacturer's recommendations.	
<i>Drop Slides</i>	<b>4.12.2.9</b>	<b><i>Drop Slides</i></b>	
<i>Landing Area</i>	4.12.2.9.1	There shall be a slide landing area in accordance with the slide manufacturer's recommendations.	
<i>Infringe</i>	4.12.2.9.2	This area shall not infringe on the landing area for any other slides, diving equipment, or any other minimum pool clearance requirements.	
<i>Steps</i>	4.12.2.9.3	Steps shall not infringe on this area.	
<i>Water Depth</i>	4.12.2.9.4	The minimum required water depth shall be a function of the slide drop height above the water surface.	
<i>Manufacturer's Recommendation</i>	4.12.2.9.5	The minimum required water depth shall be in accordance with the slide manufacturer's recommendations.	
<i>Pool Slides</i>	<b>4.12.2.10</b>	<b><i>Pool Slides</i></b>	
<i>Designed for Safety</i>	4.12.2.10.1	All slides installed as an appurtenance to a public swimming POOL or water attraction shall be designed, constructed, and installed to provide a safe environment for all patrons utilizing the facility.	
<i>Standards</i>	4.12.2.10.1.1	POOL SLIDES shall be designed and constructed in accordance with applicable ASTM and CSPC standards.	
<i>Injury</i>	4.12.2.10.2	POOL SLIDES are to be assembled, arranged, and finished in a smooth and consistent manner to inhibit the possibility of injury.	B
<i>Non-Toxic</i>	4.12.2.10.3	Components used to construct a POOL SLIDE shall be non-toxic and compatible with the environment contacted under normal use.	A
<i>Access</i>	4.12.2.10.4	Access to the inclined sliding surface shall be	B

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		gained by use of steps, ladders, stairs, or ramps.	
<i>Treads</i>	4.12.2.10.4.1	Treads shall be slip resistant.	
<i>Ladders</i>	4.12.2.10.4.2	Ladders shall be constructed with full treads not rungs (similar to ladders acceptable for ingress/egress into pools).	
<i>Handrails</i>	4.12.2.10.5	Handrails for ladders shall be sturdy, 1-1.9 inch outside diameter, extend no more than 18 inches above the slide entrance platform, and designed to prevent entrapment.	B
<i>Water Depth</i>	4.12.2.10.6	Water depth at the slide terminus shall be determined by the slide manufacturer.	B
<i>Pool Edge</i>	4.12.2.10.7	Clear space shall be maintained to the POOL edge and other features per manufacturer requirements.	A
<i>Terminus End</i>	4.12.2.10.7.1	The terminus end of the slide shall be protected through the use of a float line, WING WALL, or other similar impediment to prevent collisions with other BATHERS.	
<i>Prevent Bather Access</i>	4.12.2.10.7.2	Netting or other structures shall be provided to prevent BATHER access underneath pool slides where sufficient clearance is not provided.	
<i>Signage</i>	<b>4.12.2.11</b>	<b>Signage</b>	
<i>Warning Signs</i>	4.12.2.11.1	Warning signs in accordance with manufacturer's recommendations shall be provided.	
<i>Caution Signs</i>	4.12.2.11.2	Caution Signs (Risk Management and Safety TC)	
<i>Lifeguarding and Safety Equipment</i>	4.12.2.11.3	Lifeguarding and Safety Equipment (Risk Management TC and/or Lifeguarding and Bather Supervision TC)	
<i>Wave Pools</i>	<b>4.12.3</b>	<b>Wave Pools</b>	

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Keyword	Section	Code	Grade
<i>General</i>	<b>4.12.3.1</b>	<b><i>General</i></b>	
<i>Additional Provisions</i>	4.12.3.1.1	In addition to the general swimming POOL requirements stated in this CODE, WAVE POOLS shall comply with the additional provisions or reliefs of this section.	
<i>Access</i>	<b>4.12.3.2</b>	<b><i>Access</i></b>	
<i>Access Point</i>	4.12.3.2.1	BATHERS must gain access to the WAVE POOL at the shallow or beach end.	
<i>Sides</i>	4.12.3.2.1.1	The sides of the POOL shall be protected from unauthorized entry into the POOL by the use of a fence or other comparable BARRIER.	
<i>Handrails</i>	4.12.3.2.1.2	Handrails as required by ADA for accessible entries shall be designed in such a way that they do not present a potential for injury or entrapment with wave pool patrons.	
<i>Handholds</i>	4.12.3.2.2	WAVE POOLS shall be provided with handholds at the static water level or not more than 6 inches above the static water level.	
<i>Continuous</i>	4.12.3.2.2.1	These handholds shall be continuous around the pool's perimeter with the exception of at the zero beach entry, water depths less than 24 inches, if this area is roped off not allowed for bather access.	
<i>Self Draining</i>	4.12.3.2.2.2	These handholds shall be self-draining.	
<i>Flush</i>	4.12.3.2.2.3	Handholds shall be installed so that their outer edge is flush with the POOL wall.	
<i>Entangled</i>	4.12.3.2.2.4	The design of the handholds shall ensure that body extremities will not become entangled during wave action.	
<i>Steps and Handrails</i>	4.12.3.2.3	Recessed steps shall not be allowed along the walls of the WAVE POOL due to the entrapment potential.	

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Keyword	Section	Code	Grade
Ladders	4.12.3.2.4	Side wall ladders shall be utilized for egress only and shall be placed so they do not project beyond the plane of the wall surface.	
Requirements	4.12.3.2.5	The egress requirements in MAHC Sections 4.5.4.1, 4.5.4.1.2, and 4.5.4.3 do not apply to WAVE POOLS.	
Float Line	4.12.3.2.6	WAVE POOLS shall be fitted with a float line located to restrict access to the caisson wall if required by the wave equipment manufacturer	
Safety	<b>4.12.3.3</b>	<b>Safety</b>	
Life Jackets	4.12.3.3.1	Proper STORAGE shall be provided for life jackets and all other equipment used in the POOL that will allow for thorough drying to prevent the growth of mold.	
Shut-Off Switch	4.12.3.3.2	A minimum of two emergency shut-off switches to disable the wave action shall be provided, one on each side of the WAVE POOL.	
Labeled and Accessible	4.12.3.3.2.1	These switches shall be clearly labeled and readily accessible to lifeguards.	
No Diving Sign	4.12.3.3.3	Safety rope and float lines typically required at shallow to deep water transitions shall not apply to WAVE POOLS.	
Caution Signs	4.12.3.3.4	Caisson BARRIERS shall be provided for all WAVE POOLS that prevent the passage of a four (4) inch ball.	
Lifeguarding an Safety Equipment	4.12.3.3.5	Lifeguarding and Safety Equipment (Risk Management TC and/or Lifeguarding and Bather Supervision TC)	
Water Quality	<b>4.12.3.4</b>	<b>Water Quality</b>	
Turnover Rates	4.12.3.4.1	Turnover Requirements (Recirculation Systems & Filtration TC)	

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Keyword	Section	Code	Grade
Overflow Systems	4.12.3.4.2	Overflow Systems / Gutters / Surface Skimmers (Recirculation Systems & Filtration TC)	
Return Inlets	4.12.3.4.3	Return Inlets (Recirculation Systems & Filtration TC)	
Bather Load	4.12.3.4.4	Bather Load (Contamination Burden TC)	
Therapy Pools	<b>4.12.4</b>	<b>Therapy Pools</b>	
Additional Provisions	4.12.4.1	In addition to the general swimming POOL requirements stated in this CODE, THERAPY POOLS shall comply with the additional provisions or reliefs of this section.	
Slope	4.12.4.2	Floor slope may exceed 1 foot (0.3 m) in 12 feet (3.66 m) for water shallower than 5 feet (1.5 m).	
Break Points	4.12.4.2.1	Break points in floor slope shall be identified with a contrasting band consistent with MAHC Section 4.5.5.2.	
Hydrotherapy	4.12.4.3	Hydrotherapy or jet systems shall be independent of the recirculation, filtration, and heating systems.	
Special Equipment	4.12.4.4	Special equipment may be allowed by the AHJ with proper justification.	
Turnover Requirements	4.12.4.5	Turnover Requirements (Recirculation Systems & Filtration TC)	
Overflow Systems	4.12.4.6	Overflow Systems / Gutters / Surface Skimmers (Recirculation Systems & Filtration TC)	
Return Inlets	4.12.4.7	Return Inlets (Recirculation Systems & Filtration TC)	
Bather Load	4.12.4.8	Bather Load (Contamination Burden TC)	
Caution Signs	4.12.4.9	Caution Signs (Risk Management and Safety TC)	
Lifeguarding and Safety Equipment	4.12.4.10	Lifeguarding and Safety Equipment (Risk	

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Keyword	Section	Code	Grade
		<b>Management TC and/or Lifeguarding and Bather Supervision TC)</b>	
<i>Leisure Rivers</i>	<b>4.12.5</b>	<b>Leisure Rivers</b>	
<i>General</i>	<b>4.12.5.1</b>	<b>General</b>	
<i>Additional Provisions</i>	4.12.5.1.1	In addition to the general swimming POOL requirements stated in this CODE, LEISURE RIVERS shall comply with the additional provisions or reliefs of this section.	
<i>Protrusions</i>	4.12.5.1.2	Handrails, steps, stairs and propulsion jets for LEISURE RIVERS shall not protrude into the river.	
<i>Access and Egress</i>	<b>4.12.5.2</b>	<b>Access and Egress</b>	
<i>Means</i>	4.12.5.2.1	Means of access/egress shall be provided at 150 foot (45.7 m) intervals around the LEISURE RIVER.	
<i>Handhold</i>	4.12.5.2.2	A handhold in compliance with MAHC Section 4.5.6 shall be required on at least one side of the LEISURE RIVER.	
<i>Deck</i>	4.12.5.2.3	A deck shall be provided along the entire length of the LEISURE RIVER.	
<i>Alternate Sides</i>	4.12.5.2.3.1	The deck shall be allowed to alternate sides of the LEISURE RIVER.	
<i>Obstructions</i>	4.12.5.2.3.2	Obstructions around the perimeter of the river, such as bridges or landscaping, shall be allowed provided they do not impact lifeguarding, sight lines, or rescue operations.	
<i>Bridges</i>	4.12.5.2.4	All bridges spanning a POOL shall have a minimum clearance of both 7 feet (2.13 m) from the bottom of the POOL and 4 feet (1.22 m) above the water surface to any structure overhead.	
<i>Water Quality</i>	<b>4.12.5.3</b>	<b>Water Quality</b>	
<i>Turnover Requirements</i>	4.12.5.3.1	Turnover Requirements <b>(Recirculation Systems &amp;</b>	

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Keyword	Section	Code	Grade
		<b>Filtration TC)</b>	
Overflow Systems	4.12.5.3.2	Overflow Systems / Gutters / Surface Skimmers (Recirculation Systems & Filtration TC)	
Return Inlets	4.12.5.3.3	Return Inlets (Recirculation Systems & Filtration TC)	
Bather Load	4.12.5.3.4	Bather Load (Contamination Burden TC)	
Safety	<b>4.12.5.4</b>	<b>Safety</b>	
Caution Signs	4.12.5.4.1	Caution Signs (Risk Management and Safety TC)	
Lifeguarding and Safety Equipment	4.12.5.4.2	Lifeguarding and Safety Equipment (Risk Management TC and/or Lifeguarding and Bather Supervision TC)	
Movable Floors	<b>4.12.6</b>	<b>Moveable Floors</b>	
General	<b>4.12.6.1</b>	<b>General</b>	
Additional Provisions	4.12.6.1.1	In addition to the general swimming POOL requirements stated in this CODE, MOVEABLE FLOORS shall comply with the additional provisions or reliefs of this section.	
Water Treatment	4.12.6.1.2	The MOVEABLE FLOOR design shall not impede the effectiveness of the water treatment system.	
Underneath	4.12.6.1.3	MOVEABLE FLOORS shall allow inspection, cleaning and maintenance of the area underneath.	
Return Inlets	4.12.6.1.4	Return Inlets (Recirculation Systems & Filtration TC)	
Slip Resistance	<b>4.12.6.2</b>	<b>Slip Resistance</b>	
Shallow Water	4.12.6.2.1	The surface of the moveable floor shall be slip resistant if it is intended for installation in water depths less than 5 feet (1.52 m).	
Safety	<b>4.12.6.3</b>	<b>Safety</b>	

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<i>Not Continuous</i>	4.12.6.3.1	A strategy for preventing patrons from transitioning to deeper water when a moveable floor is not continuous over the entire surface area of the POOL shall be provided.	
<i>Underside</i>	4.12.6.3.2	The underside of the moveable floor shall not be accessible to BATHERS.	
<i>Entrapment</i>	4.12.6.3.3	The design of a moveable floor shall protect against bather entrapment between the moveable floor and the pool walls and floor.	
<i>Hydraulic Fluid</i>	4.12.6.3.4	If the moveable floor is operated using hydraulics, the hydraulic compounds shall be listed as safe for use in pool water in case there is a hydraulic leak.	
<i>Movement</i>	<b>4.12.6.4</b>	<b><i>Movement</i></b>	
<i>Speed</i>	4.12.6.4.1	The speed of a moveable floor shall be less than or equal to 1.5 feet/min (0.457 m/min).	
<i>Use</i>	4.12.6.4.2	Use of the moveable floor portion of the POOL shall not open to BATHERS when the floor is being raised or lowered.	
<i>Exception</i>	4.12.6.4.2.1	Exception 1. The moveable floor shall only be used for accessibility purposes under direct supervision.	
<i>Water Depth and Markings</i>	<b>4.12.6.5</b>	<b><i>Water Depth and Markings</i></b>	
<i>Displayed</i>	4.12.6.5.1	A floor depth indicator shall be provided that displays the current POOL water depth.	
<i>Warning Markings</i>	4.12.6.5.2	Warning markings stating "Moveable Floor" shall be provided at 25 foot (7.62 m) intervals around the perimeter of the moveable floor.	
<i>Bulkheads</i>	<b>4.12.7</b>	<b><i>Bulkheads</i></b>	
<i>Additional Provisions</i>	4.12.7.1	In addition to the general swimming POOL	

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Keyword	Section	Code	Grade
		requirements stated in this CODE, BULKHEADS shall comply with the additional provisions or reliefs of this section.	
<i>Lifeguarding and Safety Equipment</i>	4.12.7.2	Lifeguarding and Safety Equipment (Risk Management TC and/or Lifeguarding and Bather Supervision TC)	
<i>Entrapment</i>	4.12.7.3	The bottom of the BULKHEAD shall be designed so that a POOL user cannot be entrapped underneath or inside of the BULKHEAD.	
<i>Placement</i>	4.12.7.4	The BULKHEAD placement shall not interfere with the required water circulation in the pool.	
<i>Fixed</i>	4.12.7.5	BULKHEADS shall be fixed to their operational position(s) by a tamper-proof system.	
<i>Gap</i>	4.12.7.6	The gap between the BULKHEAD and the POOL shall be 1.5 inches (38 mm).	
<i>Handhold</i>	4.12.7.7	The BULKHEAD shall be designed to afford an acceptable handhold as required in MAHC Section 4.5.6.	
<i>Entrances and Exits</i>	4.12.7.8	The proper number of entrances/exits to the POOL as required by MAHC section 4.5.4 shall be provided when the BULKHEAD is in place.	
<i>Guard Railings</i>	4.12.7.9	Guard railings at least 34 inches (860 mm) tall shall be provided on both ends of the BULKHEAD.	
<i>Width</i>	4.12.7.10	The width of the walkable area (total bulkhead width) of a BULKHEAD shall be greater than or equal to 3 feet and 3 inches (1.0 m).	
<i>Starting Platforms</i>	4.12.7.10.1	If starting platforms are installed, the width of the walkable area (total bulkhead width) of a BULKHEAD shall be greater than or equal to 3 feet and 9 inches (1140 mm).	
<i>Operation and Training</i>	4.12.7.11	Operation and Training (Facility Maintenance and Operation TC / Operator Training TC)	

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Keyword	Section	Code	Grade
Caution Signs	4.12.7.12	Caution Signs (Risk Management and Safety TC)	
Spraygrounds	4.12.8	Spraygrounds	
Additional Provisions	4.12.8.1	In addition to the general swimming POOL requirements stated in this CODE, SPRAYGROUNDS shall comply with the additional provisions or reliefs of this section.	
Surface	4.12.8.2	SPRAYGROUNDS shall have a slip-resistant and easily cleanable surface.	
Manufactured Surfacing	4.12.8.2.1	Any manufactured surfacing shall be deemed suitable by the manufacturer for aquatic and chlorinated environments.	
Sloped	4.12.8.3	The SPRAYGROUND shall be properly sloped so that only water from the features flows back to the reservoir.	
Adjacent Areas	4.12.8.3.1	Areas adjacent to the SPRAYGROUND shall be sloped away from the collection drains.	
Water Collection	4.12.8.3.2	The slope of the SPRAYGROUND shall be sufficient to prevent standing water from collecting on the pad.	
Drains	4.12.8.4	The size, number and locations of the SPRAYGROUND drains shall be determined and specified so as to assure water does not accumulate on the SPRAYGROUNDS.	
Gravity	4.12.8.4.1	Flow through the drains to the SPRAYGROUND COLLECTION TANK shall be under gravity.	
Direct Suction Outlets	4.12.8.4.2	Direct suction outlets from the SPRAYGROUND shall be prohibited.	
Grate Openings	4.12.8.5	Openings in the grates covering the drains shall not exceed ½ inches (13 mm) wide.	
Tools	4.12.8.5.1	Gratings shall not be removable without the use of tools.	

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Keyword	Section	Code	Grade
<i>Treatment Tank</i>	4.12.8.6	The SPRAYGROUND COLLECTION TANK shall be designed to provide ready access for cleaning and inspections, and be capable of complete draining.	
<i>Access Hatch</i>	4.12.8.6.1	The access hatch or lid shall be locked or require a tool to open.	
<i>Deck Area</i>	4.12.8.7	Eight feet (2.44 m) of deck area shall be provided between a SPRAYGROUND and any landscaped area unless the landscaping is either elevated above the deck in a planter.	
<i>Deck Surface</i>	4.12.8.7.1	The deck shall be of a uniform, easily cleaned, impervious material and be protected from surface runoff.	
<i>Barrier</i>	4.12.8.8	A BARRIER shall be provided to separate a SPRAYGROUND from another BODY OF WATER within the same facility unless the SPRAYGROUND is separated by a distance of at least 15 feet (4.57 m) from other BODIES OF WATER.	
<i>Enclosures</i>	4.12.8.9	If a facility only consists of a sprayground, then the requirements for an enclosure shall not apply.	
<i>Hazard</i>	4.12.8.10	SPRAY FEATURES shall be designed and installed to be seen clearly, so as not to be a hazard to patrons due to water velocity from the SPRAY FEATURE discharge, or other safety hazards.	
<i>Maximum Velocity</i>	4.12.8.11	Maximum velocity at the orifice of the SPRAY FEATURE nozzle shall not exceed 20 feet (6.1 m) per second.	
<i>Signage</i>	4.12.8.12	Depth markings and warning signs are not required for SPRAYGROUNDS	
<i>NEC Requirements</i>	4.12.8.13	NEC swimming POOL requirements shall apply to SPRAYGROUNDS.	
<i>Turnover Rates</i>	4.12.8.14	Turnover Requirements (Recirculation Systems & Filtration TC)	

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Keyword	Section	Code	Grade
Overflow Systems	4.12.8.15	Overflow Systems / Gutters (Recirculation Systems & Filtration TC)	
Return Inlets	4.12.8.16	Return Inlets / Collection Vessel Agitation (Recirculation Systems & Filtration TC)	
Caution Signs	4.12.8.17	Caution Signs (Risk Management and Safety TC)	
Lifeguarding and Safety Equipment	4.12.8.18	Lifeguarding and Safety Equipment (Risk Management TC and/or Lifeguarding and Bather Supervision TC)	
Wading Pools	<b>4.12.9</b>	<b>Wading Pools</b>	
Additional Provisions	4.12.9.1	In addition to the general swimming POOL requirements stated in this CODE, WADING POOLS shall comply with the additional provisions or reliefs of this section.	
Barrier	4.12.9.2	A BARRIER shall be provided to separate a WADING POOL from other POOLS unless the WADING POOL is separated by a distance of 15 feet (4.57 m) from other BODIES OF WATER.	
Complete Enclosure	4.12.9.2.1	The barrier shall not be required to be a complete enclosure of the wading pool provided the shortest distance of travel between the WADING POOL around the barrier to the other pool is a minimum of 15 feet (4.57 m).	
Shallow Water	4.12.9.2.2	WADING POOLS near other WADING POOLS are not required to be separated by a BARRIER.	
Turnover Requirements	4.12.9.3	Turnover Requirements (Recirculation Systems & Filtration TC)	
Overflow Systems	4.12.9.4	Overflow Systems / Gutters / Surface Skimmers (Recirculation Systems & Filtration TC)	
Return Inlets	4.12.9.5	Return Inlets (Recirculation Systems & Filtration TC)	
Bather Load	4.12.9.6	Bather Load (Contamination Burden TC)	

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Keyword	Section	Code	Grade
Caution Signs	4.12.9.7	Caution Signs (Risk Management and Safety TC)	
Lifeguarding and Safety Equipment	4.12.9.8	Lifeguarding and Safety Equipment (Risk Management TC and/or Lifeguarding and Bather Supervision TC)	

**Model Aquatic Health Code  
Facility Design and Construction Module  
5.0 Operation and Maintenance**

<i>Keyword</i>	<i>Section</i>	<i>Code</i>	<i>Grade</i>
	<b>5.0</b>	<b>Operation and Maintenance</b>	
	<b>5.1</b>	<b>Plan Submittal</b>	
	<b>5.2</b>	<b>Materials</b>	
	<b>5.3</b>	<b>Equipment Standards</b>	
	<b>5.4</b>	<b>Pool Operation and Facility Maintenance</b>	
	<b>5.5</b>	<b>Pool Structure</b>	
	<b>5.5.1</b>	<b>Shape</b>	
	<b>5.5.2</b>	<b>Access Ladders</b>	
	<b>5.5.3</b>	<b>Color and Finish</b>	
	<b>5.5.4</b>	<b>Walls</b>	
	<b>5.5.5</b>	<b>Depth Markings</b>	
	<b>5.5.6</b>	<b>Pool Shell Maintenance</b>	
	<b>5.5.6.1</b>	<b>Cracking</b>	
<i>Types of Cracks</i>	5.5.6.1.1	Cracks exhibiting any of the following characteristics shall be evaluated by a structural engineer: <ul style="list-style-type: none"> <li>1) Cracks with vertical displacement;</li> <li>2) Cracks of varying width;</li> <li>3) Cracks concentrated to a specific area;</li> <li>4) Cracks exposing any reinforcement;</li> <li>5) Cracks obviously recurring from previous patches;</li> <li>6) Cracks in corners;</li> <li>7) Cracks drawing a defined line; and</li> <li>8) Surface cracking over 1/8 inch in width.</li> </ul>	
<i>Document Cracks</i>	5.5.6.1.2	Surface cracks under 1/8 inch wide shall be documented and monitored for any movement or change including opening, closing, and/or lengthening.	
<i>Sharp Edges</i>	5.5.6.1.3	Any sharp edges shall be removed.	