Items needing correction or clarification are marked by an "N" beside the appropriate section number of the Florida Administrative Code citation (Current 64E-9, FAC, or Current FBC 454.1). We have left the 64E-9 requirements in this checklist because they are critical for public health and therefore the pool will be checked for these items by the County Health Department at the first operating permit inspection after the Building Official’s approval of the construction.

 #sets plans \_\_\_\_\_disk\_\_\_\_

**DEFINITIONS:**

**“Spa pool”** means a pool used in conjunction with high-velocity air or water.

**“Swim spa”** is a pool used in conjunction with a directional flow of water against which one swims.

**“Portable pool”** means a pool or spa, and related equipment systems of any kind, which is designed or intended to be movable from location to location.

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| --- | --- | --- |
| Compliance: | Florida Building Code or Florida Administrative Code Section: | Details: |
| **SPA SPECIFIC REGULATIONS** |
| Y☐N☐N/A☐ | 454.1.1.1 | The bathing load for spa type pools shall be based on one person per each 10 FT2 (0.9 m2) of surface area. |
| Y☐N☐N/A☐ | 454.1.8.1 | Spa pools shall meet the requirements of Sections 454.1.1 through 454.1.6.5, unless specifically indicated otherwise. **Note: Please see section below with title “GENERAL REQUIREMENTS NOT SPA SPECIFIC (THESE ITEMS MUST BE REVIEWED BUT MAY NOT BE APPLICABLE TO ALL)”** |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.2 | Color, pattern or finish of the interior does not obscure existence of objects or surfaces. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.3 | Spa-type pools shall have a minimum water depth of 2 ½’ (762 mm) and a maximum water depth of 4’ (1219 mm), except that swim spa pools may have a maximum water depth of 5’ (1524 mm). |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.3 | Spas over 200 FT2 (19 m2) of water surface area have depth markers. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.4 | Steps or ladders shall be provided and shall be located to provide adequate entrance to and exit from the pool. The number of sets of steps or ladders required shall be on the basis of one for each 75’ (22 860 mm), or major fraction thereof, of pool perimeter. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.4 | Step sets for spa-type pools with **more than** 200 FT2 (19 m2) of pool water surface area shall comply with Section 454.1.2.5  |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.4 | Step sets for spa-type pools with 200 FT2 (19 m2) or less of pool water surface area shall comply with the following:1. Step treads shall have a minimum width of 10” (254 mm) for a minimum continuous tread length of 12” (305 mm).
2. Step riser heights shall not exceed 12” (305 mm).
3. Intermediate treads and risers between the top and bottom treads and risers shall be uniform in width and height, respectively.
 |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.4 | Contrasting markings on the leading edges of the submerged benches and the intersections of the treads and risers are required to be installed in accordance with Section 454.1.2.5. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.4.1 | Handrails shall be provided for all sets of steps and shall be anchored in the bottom step and in the deck. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.4.1 | Handrails shall be located to provide maximum access to the steps and handrails shall extend 28” (711 mm) above the pool deck. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.4.2 | Where “figure 4” handrails are used, they shall be anchored in the deck and shall extend laterally to any point vertically above the bottom step. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.5 | Decks shall have a minimum 4’ (1219 mm) unobstructed width around the entire pool perimeter except that pools of less than 120 FT2 (11 m2) of pool water surface area shall have a minimum 4’ wide (1219 mm) unobstructed continuous deck around a minimum of 50% of the pool perimeter. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.5 | Decks less than 4’ (1219 mm) wide shall have barriers to prevent their use. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.5 | Decks shall not be more than 10’ (254 mm) below the top of the pool. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.5 | For pools of 120 FT2 (11 m2) or greater, 10% of the deck along the pool perimeter may be obstructed. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.6.1 | Return lines of spa therapy or jet systems are independent of recirculation filtration and heating systems. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.6.2 | Therapy or jet pumps shall take suction from the collector tank. Collector tank sizing shall take this additional gallonage into consideration. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.7 | Spa-type pools with less than 20’ (6096 mm) of perimeter shall have a minimum of two equally spaced adjustable inlets. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.8 | Spa pool has a minimum filtration turnover of one every thirty minutes. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.8 | The piping, fittings, and hydraulic requirements shall be in accordance with Section 454.1.6.5. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.8 | All recirculation lines to and from the pool shall be individually valved with proportional flow-type valves in order to control the recirculation flow. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.9 | Spa-type pools of over 200 FT2 (19 m2) of pool water surface area shall have provisions for vacuuming. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.10 | Combination spas/pools (offset): When spa pools are part of a conventional swimming pool, the spa pool area shall be offset from the main pool area with the same water depth as the main pool area. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.10 | Combination spas/pools (offset): The spa pool shall meet all the spa pool requirements of this chapter, and the deck area at the spa shall be protected by connected 30” high (762 mm) stanchions. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.10 | Combination spas/pools (offset): The deck perimeter at the offset spa area shall not exceed 15% of the entire swimming pool perimeter. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.10 | Combination spas/pools (offset): All benches shall have contrasting markings on the leading edges of the intersection of the bench seats. If tile is used, it shall be slip resistant. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.11 | Portable and wooden-type spa pools are prohibited. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.12 | Automated oxidation reduction potential (ORP) and pH controllers with sensing probes shall be installed on spa pools to assist in maintaining proper disinfection and pH levels. |
| Y☐N☐N/A☐ | 64E-9.008(10)(e) | Feeders feeding chlorinated isocyanurates (stabilized chlorine) are prohibited. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.13 | In addition to the requirements of Section 454.1.2.3.5 spa pool signs installed shall include the following in minimum 1” high lettering:1.MAXIMUM WATER TEMPERATURE: 104°F (40°C).2.CHILDREN UNDER TWELVE MUST HAVE ADULT SUPERVISION.3.PREGNANT WOMEN, SMALL CHILDREN, PEOPLE WITH HEALTH PROBLEMS AND PEOPLE USING ALCOHOL, NARCOTICS OR OTHER DRUGS THAT CAUSE DROWSINESS SHOULD NOT USE SPA POOLS WITHOUT FIRST CONSULTING A DOCTOR.4.MAXIMUM USE: 15 MINUTES. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.14 | A clock shall be visible from the spa pool to assist the patron in meeting Item 4 of Section 454.1.8.13. |
| Y[ ] N[ ] N/A[ ]  | 454.1.8.15 | **If** a spa is equipped with an emergency cutoff or kill switch, it shall include provisions for a minimum 80 decibel audible alarm near the spa to sound continuously until deactivated when such device is triggered. The following additional rule sign shall be installed to be visible by the spa which reads “ALARM INDICATES SPA PUMPS OFF. DO NOT USE SPA WHEN ALARM SOUNDS UNTIL ADVISED OTHERWISE.” |
| **GENERAL REQUIREMENTS NOT SPA SPECIFIC (THESE ITEMS MUST BE REVIEWED BUT MAY NOT BE APPLICABLE TO ALL)** |
| Y[ ] N[ ] N/A[ ]  | 514.031(1)(a) | Plans review fees received as required by Florida Statute 514.031(1)(a) |
| Y[ ] N[ ] N/A[ ]  | 514.031(1)(a) | A current version of application (DH 4159) for approval of swimming pool plans received. |
| Y[ ] N[ ] N/A[ ]  | 514.031(1)(a) | A set of signed and sealed engineering plans received (proper size). |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.1 & 454.1.2.4 | Pools shall be constructed of concrete or other impervious and structurally rigid material. All pools shall be watertight, free from structural cracks and shall have a nontoxic smooth and slip resistant finish. The interior finish coating floors and walls shall be comprised of a nonpigmented white cementitious binder component together with a sand/aggregate component. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.1(a)& 454.1.2.4 | Floors and walls shall be white or pastel in color and shall have the characteristics of reflecting rather than absorbing light. The finish coating shall have a dry lightness level (CIE L value) of 80.0 or greater and a wet luminous reflectance value (CIE Y value) of 50.0 or greater, as determined by test results provided by the manufacturer, utilizing testing methodology from American Standard ASTM D4086, ASTM E1477, ASTM E1347. Pools constructed of fiberglass, thermoplastic, or stainless steel shall be subject to the same interior finish color requirements. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.1(a) | Horizontal tile used in less than 5’ (1524 mm) of water must be slip resistant. (FBC Definitions: “Slip resistant” means having a textured surface which is not conducive to slipping under contact of bare feet unlike glazed tile or masonry terrazzo and nontextured plastic materials. Manufactured surface products shall be designated by the manufacturer as suitable for walking surfaces in wet areas.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.1(a)& 454.1.2.4 | A minimum 4” (102 mm) tile line, each tile a minimum size of 1” (25 mm) on all sides, shall be installed at the water line, but shall not exceed 12” (305 mm) in height if a dark color is used. Gutter-type pools may substitute 2” (51 mm) tile, each a minimum size of 1” (25 mm) on all sides, along the pool wall edge of the gutter lip. |
| Y☐N☐N/A☐ | 454.1.6.5.3.2.5 | A minimum 6” (152 mm) water line tile shall be provided on all pools with automatic skimmer systems, each a minimum size of 1” (25 mm) on all sides. Glazed tile that is smooth and easily cleanable shall be utilized. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.1(b) | One-inch (25 mm) square tile may be used if the manufacturer has specified the adhesive for use underwater to adhere the type of tile used [vitreous (glass) or ceramic]. Tiles shall not have sharp edges exposed that could cause bather injury. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.2.2 | Corners shall be a minimum 90-degree angle. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.2.2 | Protruding corners to have at least 2" (51 mm) radius continued through top of gutter edge. Coping does not overhang into the pool more than 1-1/2” (38 mm). |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.2.2 | The upper part of pool walls in areas 5’ deep or less shall be within 5 degrees (4572 mm) vertical for a minimum depth of 2-1/2’ (762 mm) from which point the wall may join the floor with a maximum radius equal to the difference between the pool depth and 2-1/2’. The upper part of pool walls in areas over 5’ (1524 mm) deep shall be within 5 degrees vertical for a minimum depth equal to the pool water depth minus 2-1/2’ (762 mm) from which point the wall may join the floor with a maximum radius of 2-1/2’ (762 mm). |
| NOTE: | 454.1.2.2.3 | The radius of curvature between the floor and walls is excluded from the following two requirements (454.1.2.2.3.1 & 454.1.2.2.2.3.2). Multiple floor levels in pools are prohibited, however, an area meeting all of the requirements of a sun shelf shall not be considered a violation of this requirement. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.2.3.1 | The floor slope shall be a maximum 1 unit vertical in 10 units horizontal and a minimum of 1 unit vertical in 60 units horizontal in areas 5’ (1524 mm) deep or less. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.2.3.1 | The floor slope shall be a maximum 1 unit vertical in 3 units horizontal in areas more than 5’ (1524 mm) deep. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(2) | Permanent depth markings followed by the appropriate full or abbreviated words “FEET,” “FT,” or “INCHES,” “IN,” shall be installed in minimum 4” high (102 mm) numbers and letters on a contrasting background. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(2)  | Depth markers shall indicate actual depth within 3” (76 mm). \*Measured at normal operating water level when measured 3” (914 m3) from the pool wall. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(2) | Symmetrical pool designs with the deep point at the center may be allowed provided a dual marking system is used which indicates the depth at the wall and at the deep point. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(3) | Maximum perimeter distance between depth markings is 25'. \*Pool size and geometry may necessitate additional depth marking placements about all sides of the pool to meet this requirement. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(3) | At a minimum, the markings shall be located on both sides of the pool at the shallow end, slope break, deep-end wall and deep point (if located more than 5’ (1524 mm) from the deep-end wall). **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(3) | Depth markings are visible from inside the pool and from the deck. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(4) | When curb is provided, depth markings are located on inside and outside or top of the pool curb. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(4) | When no curb is provided, depth markings are located at or above water level on inside vertical wall and on the deck (within 2' of water edge). **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(4) | When open type gutters are used, depth markers are located on the back of the gutter wall. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(4) | When a coping stone with curved or angled underside is provided, the depth markings may be installed on the curved or angled coping underside, and outside or top of the pool curb. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(5) | When deck level perimeter overflow systems are utilized, additional depth marking signs shall be posted nearby or placed on adjacent fencing or walls and the size shall be increased so they are recognizable from inside the swimming pool. Alternatively, tile depth markers may be placed at the top of the pool wall just under the water level. Depth markers placed on the pool deck shall be within 3’ (914 mm) of the water. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(6) | In areas, not part of an approved diving bowl, tile "NO DIVING" markings are on the curb top or deck within 2' (610 mm) of water edge on each side of pool with a maximum distance between markings of 25' (7620 mm). **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(6) | The "NO DIVING" markings are at least 4" high (102 mm) high and contrasting; or a 6” (152 mm) tile with min. 4” (102 mm) or larger red international “NO DIVING” symbol. **\*Note: Not required on spa-type pools with 200 FT2 (19 m2) or less of water surface area.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(7) | All markings installed on horizontal surfaces have a slip-resistant finish. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(7) | All markings are tile. Markings shall be flush with the surrounding area where placed and recessed if necessary to provide a smooth finish that will avoid creation of an injury hazard to bathers. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(7) | Pools constructed of fiberglass, thermoplastic or stainless steel may substitute other type markings when it can be shown that said markings are permanent and will not fade over time. This exemption does not extend to concrete pools that are coated with fiberglass. Tile alternative examples include stone or manufactured plaques with engraved or sandblasted numbers and characters with permanent paint. Markings shall be flush with the surrounding area where placed and recessed if necessary to provide a smooth finish that will avoid creation of an injury hazard to bathers. Permanent appliqués may be used for fiberglass, thermoplastics or stainless steel pools. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.1(7) | Pools that are not conducive to tile can employ other equivalent markings as stated in item above. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.2 | Any design or logo on the pool floor or walls shall be such that it will not hinder the detection of a human in distress, algae, sediment, or other objects in the pool. |
| Y[ ] N[ ] N/A[ ]  | 64E-9.008(9)(a) | The bathing load will be posted at the pool as required in the bathing rules. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.5 | The lettering for the pool rules sign is at least 1" high (25.4 mm). |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.5 | The following rules will be posted at or near poolside and will be legible from pool deck:1. NO FOOD OR BEVERAGES IN POOL OR ON POOL WET DECK.2. NO GLASS OR ANIMALS IN THE FENCED POOL AREA (OR 50 FEET (15 240 MM) FROM UNFENCED POOL).3. BATHING LOAD: \_\_\_ PERSONS.4. POOL HOURS: \_\_ A.M. TO \_\_ P.M.5. SHOWER BEFORE ENTERING.6. POOLS OF 200 FT2 (18.58 m2) IN AREA OR GREATER WITHOUT AN APPROVED DIVING WELL CONFIGURATION SHALL HAVE “NO DIVING”, IN 4” (102 MM) LETTERS INCLUDED WITH THE ABOVE LISTED POOL RULES.7. DO NOT SWALLOW THE POOL WATER. (THIS STATEMENT SHALL BE ADDED TO SIGNS AT POOLS THAT CONDUCT ALTERATIONS AS THAT TERM IS DEFINED.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.3.5 | The following two rules are only required on pools with sun shelves:8. IF THE POOL INCLUDES A SUN SHELF, “WARNING: DROP OFF AT SUN SHELF EDGE IS \_×\_ FEET DEEP” IN 4” (102 MM) LETTERS.9. IF THE POOL INCLUDES A SUN SHELF, “DO NOT PLACE FURNITURE IN POOL.” |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.1 | Ladders shall be of the cross braced type and shall be constructed of corrosion-resistant materials and be securely anchored into the pool deck. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.1 | Ladders shall extend at least 28” (711 mm) and no more than 40” (1016 mm) above the pool deck. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.1 | Ladder treads are slip-resistant and the clearance between the ladder and pool wall is 3” - 6" (76 mm to 152 mm). Ladder bottom braces shall have intact end caps or bumpers that rest firmly against the pool wall. The top rung of the ladder shall be at or below the water level on open-gutter pools and not more than 12” (305 mm) below the deck or curb top on all other type pools. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.2 | Recessed treads shall be installed flush with the wall and shall be a minimum 5” (127 mm) wide, 10” (254 mm) long, with a maximum vertical distance of 12” (305 mm) between treads. All treads shall have a slip resistant surface. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.5 | Grabrails must be mounted in the pool deck at each side of recessed steps. Handrails and grabrails shall extend between 28” and 40” (711 mm and 1016 mm) above the step edge and deck. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.3 | Stairs shall have a minimum tread width of 10” (254 mm) and a maximum width of 48” (1219 mm) for a minimum tread length of 24” (610 mm) and a maximum riser height of 10” (254 mm). **\*Note: Spa-type pools with 200 FT2 (19 m2) or less of water surface area can follow 454.1.8.4.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.3 | Treads and risers between the top and bottom treads shall be uniform to within ½” (12.7 mm) in width and height. The riser heights shall be measured at the marked step edges and the differences in elevation shall be considered the riser heights. (**Exception:** Where a gutter is used as a top step, the gutter’s 2” slope from lip to the drain shall be continuous for the full length of the stairs, and the riser from the gutter to the next tread need not be uniform with the remaining risers and treads.) **\*Note: Spa-type pools with 200 FT2 (19 m2) or less of water surface area can follow 454.1.8.4.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.3 | The front ¾” to 2” (19.1 to 51 mm) of the tread and the top 2” (51 mm) of the riser shall be tile, dark in color, contrasting with the interior of the pool. **Tile shall be slip resistant**. Bullnose tile that is slip resistant may be used when the ¾” (19 mm) segment is placed on the tread or horizontal surface and the 2” (51 mm) segment is placed on the riser or vertical surface.  |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.3 | Vinyl liner and fiberglass pools may use other material for the step edge marking, provided the material is permanent, permanently secured, dark in color, nonfading and slip resistant. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.3 | Where the gutter is used as the top step, the tile on the gutter for the width of the steps shall be slip resistant. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.4 | Swimouts extend 18" (457 mm) to 24" (610 mm) back from the pool wall.  |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.4 | Swimouts are 4' to 5' (1219 mm to 1524 mm) wide. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.4 | Unless stairs are provided, the swimout is a maximum of 12" (305 mm) below the deck |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.4 | Swimout is located in an area of the pool with a depth exceeding 5' (1524 mm). |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.4 | If pool is on skimmers, a wall inlet is provided within the swimout. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.4 | A dark, contrasting colored, slip resistant tile band is located along the intersection of the pool wall and the swimout, extending 2" (51 mm) on horizontal and vertical surfaces. Tile must be slip resistant. Bullnose tile that is slip resistant may be used when the ¾” (19 mm) segment is placed on the tread or horizontal surface and the 2” (51 mm) segment is placed on the riser or vertical surface. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.5 | Where stairs are used as an access point between a sun shelf and pool area, a handrail shall be provided. The hand rail shall be anchored into the bottom step and the sun shelf floor. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.6 | Permanent or portable steps, ramps, handrails, lifts or other devices designed to accommodate handicapped individuals in swimming pools may be provided. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.5.6 | If provided, lifts to accommodate handicapped persons have a 4’ wide (1219 mm) deck behind the lift mount. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.6 | The pool water shall be unobstructed by any type of structure unless justified by engineering design as part of the recirculation system. Engineering design and material specifications shall show that such structures will not endanger the pool patron, can be maintained in a sanitary condition and will not create a problem for sanitary maintenance of any part of the pool, pool water, or pool facilities. Structures in accord with the above shall not be located in a diving bowl area or within 15” (4572 mm) of any pool wall. (Stairs, ladders and ramps, necessary for entrance/exit from the pool are not considered obstructions. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.6(2) | Underwater bench seats are 14" to 18" (356 to 457 mm) wide and have a 2" (51 mm) wide dark contrasting tile marking along the horizontal and vertical surface. Tile must be slip resistant. Bullnose tile that is slip resistant may be used when the ¾” (19 mm) segment is placed on the tread or horizontal surface and the 2” (51 mm) segment is placed on the riser or vertical surface. Vinyl liner, stainless steel and fiberglass pools may use other material for the bench edge marking as detailed in Section 454.1.2.3.1, Item 7, provided the material is permanently secured, dark in color, nonfading and slip resistant. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.6(2) | Underwater bench seats are in areas less than 5’ (1524 mm) deep. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.1 | Pool wet decks shall be constructed of concrete or other nonabsorbent material having a smooth slip-resistant finish. Wet deck area finishes shall be designed for such use and shall be installed in accordance with the manufacturer’s specifications. Wooden decks and walkways are prohibited. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.2 | Indoor and outdoor pool deck has a minimum 2% and maximum 4% uniform slope away from pool or to deck drains. (**Exception:** Plunge pool deck slopes toward pool.)  |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.2 | Textured deck finishes that provide pitting and crevices of more than 3/16” (4.8 mm) deep that accumulate soil are prohibited. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.2 | If settling or weathering occurs that would cause standing water, the original slopes shall be restored or corrective drains installed. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.2 | Pool deck is not below maximum 10" (254 mm) from the curb top when curb is provided. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.4 | Traffic barriers provided to prevent obstruction of deck by vehicles (where applicable). |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.5 | Hose bibb with vacuum breaker is provided to wash deck with potable water. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.5 | Walkways shall be provided between the pool and the sanitary facilities, and shall be constructed of concrete or other nonabsorbent material having a smooth slip-resistant finish for the first 15’ (4572 mm) of the walkway measured from the nearest pool water’s edge. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.7 | There is no provision for drink or food serving facilities within 12’ (3658 mm) of the water’s edge. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.8 | The vertical clearance above the pool deck is at least 7'. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.9 | Pool is surrounded by min. 48” (1219 mm) high fence with self-closing, self-latching, lockable gates opening away from pool. Latch is 54” (1372 mm) above bottom of gate or min. 3” (76 mm) below the top of the gate on the pool side. Fence does not allow passage of 4” (102 mm) diameter sphere. Locks, if self-locking, may be 34” minimum (864 mm) and 48” maximum (1219 mm) above the finished floor or ground. Fencing consideration shall be given to the U.S. Consumer Product Safety Commission (CPSC) Publication, No. 362, March 2005, guidelines available from CPSC.gov; or Sections 454.2.17.1.1 through 454.2.17.1.8. Safety covers that comply with ASTM F1346-91 (Reapproved 2003), titled Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs, and available from ASTM.org, do not satisfy this requirement. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.9 | Access through the fence from dwelling units is via minimum 48” (1219 mm) self-closing, self-latching, lockable gate. Doored access from public rooms need not be through gates. if the door(s) meet the same self-closing, self-latching requirements as a gate. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.9 | Instead of a fence, permanent natural or manmade features such as bulkheads, canals, lakes, navigable waterways, etc., adjacent to a pool may be permitted as a barrier when approved. When evaluating such barrier features, the applicable governing body may perform onsite inspections, and review evidence, such as surveys, aerial photographs, water management agency standards and specifications, and any other similar documentation to verify at minimum, the following: the barrier feature is not subject to natural changes, deviations or alterations and is capable of providing an equivalent level of protection as that provided by a structure, and the barrier feature clearly impedes, prohibits or restricts access to the pool. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.9 | Other substantial barriers may be considered by the department. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.9 | Screened pool enclosures are hardened on the bottom 3’ (914 mm). |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.1.9 | A latched, lockable gate shall be placed in the fence within 10’ (3048 mm) of the closest point between the pool and the equipment area for service access. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.2 | Bridges and overhead obstructions over the pool shall be designed so they will not introduce any contamination to the pool water. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.2 | Bridge or obstruction over pool is at least 4' (1219 mm) above the surface of the pool in all cases except when the pool is a river ride where it shall be at least 5’ (1524 mm) above the surface of the pool. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.2 | Minimum 42" (1067 mm) high handrails are provided along each side of the bridge |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.2 | Bridge or walkway footing surface is constructed of concrete or other non-absorbent material having a smooth slip-resistant finish. Pool coping shall not overhang into the pool more than 1 1/2” (38 mm). |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.3.1; 64E-9(3)(b)(c)(d) | If the pool length is 50' or less, at least 1 shepherd's hook with one-piece pole (minimum 16' long) (min. 16' long) and multiple lifesaving rings (min. 18" diameter) with sufficient ropes attached to reach all parts of the pool from the deck, mounted along each of the longer sides of the pool**. \*Spa pools under 200 FT2 (1.86 m2) of surface area are exempt from this requirement.** |
| Y☐N☐N/A☐ | 64E-9(3)(d) | Safety equipment shall be mounted in a conspicuous place and be readily available for use. **\*Spa pools under 200 FT2 (1.86 m2) of surface area are exempt from this requirement.** |
| Y[ ] N[ ] N/A[ ]  | 64E-9.008(5); 454.1.3.3.3 | If solar blanket or pool cover is specified, it is either secured around entire pool perimeter and can support a live load of an adult person, or the pool area can be made inaccessible to unauthorized persons when cover is in use. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.3.4 | A room or space shall be provided for chemicals to be stored in a cool, dry, and well-ventilated area under a roof and the area shall be inaccessible to the public. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.3.5 | Swimming pool slides shall be installed in accordance with manufacturer’s specifications and sound engineering practice. Pools with slides designed for swimming pools are not required to satisfy those of slide plunge pools in Section 454.1.9.2.1. |
| Y[ ] N[ ] N/A[ ]  | 454.1.3.3.6 | Floating and climb-on devices, objects or toys that are not a part of the approved pool design shall not be tethered in the pool or installed without an engineering alterations application. |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.1 | Electrical equipment wiring and installation, including the bonding and grounding of pool components shall comply with Chapter 27 of the Florida Building Code, Building |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.1 | Outlets supplying pool pump motors connected to single-phase 120-volt through 240-volt branch circuits, whether by receptacle or by direct connection, and outlets supplying other electrical equipment and underwater luminaires operating at voltages greater than the low voltage contact limit, connected to single-phase, 120 volt through 240 volt branch circuits, rated 15 or 20 amperes, whether by receptacle or by direct connection, shall be provided with ground-fault circuit interrupter protection for personnel |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.2 | Artificial lighting shall be provided at all swimming pools which are to be used at night or which do not have adequate natural lighting so that all portions of the pool, including the bottom, may be readily seen without glare. |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.2.1 | Outdoor pool lighting: If night swimming is to be allowed, lighting will provide at least 3 fc (30 lux) of illumination at pool water surface and the pool wet deck surface. |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.2.1; 424.1.4.2.3 | Outdoor pool lighting: If night swimming is to be allowed, underwater lighting will provide at least 1/2 watt per square foot of pool water surface area. (**Exception**: Underwater lighting requirements can be waived when the overhead lighting provides at least 15 footcandles (150 lux) of illumination at the pool water surface and pool wet deck surface.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.2.2; 424.1.4.2.3 | Indoor pool lighting: Lighting shall provide a minimum of 10 foot candles (100 lux) of illumination at the pool water surface and the pool wet deck surface. Underwater lighting shall be a minimum of 8/10 watt per square foot of pool surface area. (**Exception**: Underwater lighting requirements can be waived when the overhead lighting provides at least 15 footcandles (150 lux) of illumination at the pool water surface and pool wet deck surface.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.2.3 | Underwater luminaires shall comply with Chapter 27 of the Florida Building Code, Building. |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.2.3 | The location of the underwater luminaires shall be such that the underwater illumination is as uniform as possible. |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.2.4 | Overhead service wiring shall not pass within an area extending a distance of 10’ (3048 mm) horizontally away from the inside edge of the pool walls, diving structures, observation stands, towers or platforms. Allowances for overhead conductor clearances to pools that meet the safety standards in the National Electrical Code may be used instead. |
| Y[ ] N[ ] N/A[ ]  | 454.1.4.2.4 | Electrical equipment wiring and installation including the grounding of pool components shall comply with Chapter 27 of the Florida Building Code, Building. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.1 | Equipment designated by the manufacturer for outdoor use may be located in an equipment area, all other equipment must be located in an equipment room or enclosure. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.1 | An equipment area shall be surrounded with a fence at least 4’ (1219 mm) high on all sides not confined by a building or equivalent structure. A self-closing and self-latching gate with a permanent locking device shall be provided if necessary for access. (Reminder 454.1.3.1.9: A latched, lockable gate shall be placed in the fence within 10’ (3048 mm) of the closest point between the pool and the equipment area for service access.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.1 | An equipment room shall be protected on at least three sides and overhead. Any fence or gate installed shall use members spacing that shall not allow passage of a 4” (102 mm) diameter sphere. The fourth side may be a gate, fence, or open if otherwise protected from unauthorized entrance. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.1 | An equipment enclosure shall be lockable or otherwise protected from unauthorized access. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.2 | Indoor Equipment: Equipment not designated by the manufacturer for outdoor use shall be located in an equipment room. An equipment room shall be protected on at least three sides and overhead. The fourth side may be a gate, fence or open if otherwise protected from unauthorized entrance. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.3 | The equipment enclosure, area or room floor shall be of concrete or other nonabsorbent material having a smooth slip-resistant finish and shall have positive drainage, including a sump pump if necessary. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.3 | Ancillary equipment, such as a heater, not contained in an equipment enclosure or room shall necessitate an equipment area as described above (454.1.5.1). |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.4 | Equipment rooms shall have either forced draft or cross ventilation. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.4 | All below-grade equipment rooms shall have a stairway access with forced draft ventilation or a fully louvered door and powered intake within 6” (152 mm) of the floor. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.4 | Where stairway access is not necessary to carry heavy items into the below grade room or vault, a “ship’s ladder” may be used if specified by the design engineer who must consider anticipated workload including equipment removal; and the ladder slope, tread height and width; and construction material of the ladder. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.5 | The equipment room access is at least 3' x 6' (914 mm by 1829 mm) and shall provide easy access to the equipment. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.6 | The size of the equipment enclosure, room or area shall provide working space to perform routine operations. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.6 | The equipment room size and layout provides clearances for all equipment as prescribed by the manufacturer to allow normal maintenance and removal without disturbing other piping or equipment. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.6 | In rooms with fixed ceilings, the minimum height shall be 7’ (2137 mm). |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.7 | The equipment room is lighted to provide a minimum 30 fc (300 lux) of illumination at floor level. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.8 | Equipment enclosures, rooms or areas shall not be used for storage of chemicals emitting corrosive fumes or for storage of other items to the extent that entrance to the room for inspection or operation of the equipment is impaired. |
| Y[ ] N[ ] N/A[ ]  | 454.1.5.9 | The equipment room is provided with a hose bibb with vacuum breaker. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1 | The entry doors of all restrooms shall be located within a 200-foot (60 960 mm) walking distance of the nearest water’s edge of each pool served by the facilities. (**Exception**: Where a swimming pool serves only a designated group of residential dwelling units and not the general public, poolside sanitary facilities are not required if all living units are within a 200’ (60 960 mm) horizontal radius of the nearest water’s edge, are not over three stories in height unless serviced by an elevator, and are each equipped with private sanitary facilities.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1 | Restrooms: Pools with a bathing load larger than 40 persons shall provide separate sanitary facilities labeled for each sex.  |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1 | Unisex restrooms: Swimming pools with a bathing load of 20 persons or less may utilize one unisex restroom. Unisex restrooms shall meet all the requirements for materials, drainage and signage as indicated in Sections 454.1.6.1.1 through 454.1.6.1.4. Each shall include a water closet, a diaper change table, a urinal and a lavatory. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1 | Unisex Restrooms: Pools with bathing loads of 40 persons or less may utilize two unisex restrooms or meet the requirements of Table 454.1.6.1. Unisex restrooms shall meet all the requirements for materials, drainage and signage as indicated in Sections 454.1.6.1.1 through 454.1.6.1.4. Each shall include a water closet, a diaper change table, a urinal and a lavatory. Pools with a bathing load larger than 40 persons shall provide separate sanitary facilities labeled for each sex. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.1 |

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| **TABLE 454.1.6.1** |
| **PUBLIC SWIMMING POOL—REQUIRED FIXTURE COUNT** |
| **SIZE OF POOL (square feet)** | **MEN’S RESTROOM** | **WOMEN’SRESTROOM** |
| **For SI: 1 FT2 = 0.0929 m2.** | **Urinals** | **WC** | **Lavatory** | **WC** | **Lavatory** |
| 0 – 2,500 | 1 | 1 | 1 | 1 | 1 |
| 2,501 – 5,000 | 2 | 1 | 1 | 5 | 1 |
| 5,001 – 7,500 | 2 | 2 | 2 | 6 | 2 |
| 7,501 – 10,000 | 3 | 2 | 3 | 8 | 3 |

 |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.1 | Fixtures shall be provided as indicated on Table 454.1.6.1. The fixture count on this chart is deemed to be adequate for the pool and pool deck area that is up to three times the area of the pool surface provided. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.1 | When multiple fixture sets are required and separate facilities are provided for each sex, the fixtures used in ancillary family-style restrooms can be used to meet the requirements of this section. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.1 | **Exception**: When a public swimming pool meets all of the following conditions the following shall apply:1.The pool serves only a designated group of dwelling units,2.The pool is not for the use of the general public, and3.A building provides sanitary facilities;The fixture requirement for the building shall be determined and if it exceeds the requirement in Table 454.1.6.1 then the building requirement shall regulate the fixture count, otherwise the fixture count shall be based on the requirement for the pool. **Under no circumstances shall the fixture counts be cumulative.** |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.1 | Pools greater than 10,000 FT² have one additional fixture set for each 7,500 FT² (697 m2) or major fraction thereof above 10,000 FT² (929 m2)., and meet 3:2 female/male ratio requirements provided for women as the combined total of water closets and urinals provided for men. Lavatory counts are equal. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.1 | One diaper changing table is provided at each restroom unless all pools restricted to adult use. (Swim diapers are recommended for use by children that are not toilet trained. Persons that are ill with diarrhea cannot enter the pool.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.2 | Outside access to facilities shall be provided for bathers at outdoor pools. Where the restrooms are located within an adjacent building and the restroom doors do not open to the outside, the restroom doors shall be within 50’ (15 240 mm) of the building’s exterior door. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.2 | If the restrooms are not visible from any portion of the pool deck, signs shall be posted showing directions to the facilities. Directions shall be legible from any portion of the pool deck; letters shall be a minimum of 1” (25 mm) high. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.3 | Floors of sanitary facilities shall be constructed of concrete or other nonabsorbent materials, shall have a smooth, slip-resistant finish, and shall slope to floor drains |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.3 | Sanitary facilities: There are no foot baths, carpet or duck boards on the floor. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.3 | The intersection between the floor and walls shall be coved where either floor or wall is not made of waterproof materials such as tile or vinyl. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.1.4 | A hose bibb with vacuum breaker is in or within 25’ (7620 mm) each restroom for ease of cleaning. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.2 | A minimum of one rinse shower shall be provided on the pool deck of all outdoor pools within the perimeter of the fence. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.3 | An atmospheric break or approved backflow prevention device shall be provided in each pool water supply line that is connected to a public water supply. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.3 | Vacuum breakers shall be installed on all hose bibbs. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.1 | Recirculation and treatment equipment such as filters, recessed automatic surface skimmers, ionizers, ozone generators, disinfection feeders and chlorine generators shall be tested and approved using the NSF/ANSI Standard 50, Circulation System Components and Related Materials for Swimming Pool, Spas/Hot Tubs, dated April 2007, which is incorporated by reference. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.2 | The recirculation/filtration equipment is designed to provide at least 4 turnovers of the pool volume per day. Health or fitness centers shall provide 8 turnovers per day unless pool is 1000 FT² (93 m2) or larger. |
| Y☐N☐N/A☐ | 64E-9.004(5) | The pool recirculation system must be operated at all times when the pool is open for use. The recirculation system may be shut off three hours after the pool closes but must resume operation three hours before opening the pool. Shut down time must be controlled by a time clock. When a variable speed pump is used, the recirculation system shall be operated such that it achieves the equivalent of 6 hours of treatment at 100% design flowrate during the daily closed period, or at least one complete water volume turnover, whichever is greater. Exception: vacuum DE systems are excluded from this allowance. \*\*\*If multiple recirculation pumps are used the required flowrate, filtration, & chemical treatment must be maintained or the entire system shall not operate. Example: System must not be able to operate without one pump if the additional pumps are not able to maintain the proper flowrate, filtration, and chemical treatment (some type of audible alarming system audible may be employed to ensure requirement is met). |
| Y[ ] N[ ] N/A[ ]  | 64E-9.004(1) | Pool makeup water supply is from an approved potable water system or meets those requirements with bacteriological/chemical reports to county health department. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3 | The design pattern of recirculation flow of pool with perimeter overflow system (gutters) is 100% through main drain piping and 100% through perimeter overflow system piping. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1 | The lip of the gutter shall be uniformly level with a maximum tolerance of ¼” (6 mm) between the high and low areas. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1 | The bottom of the gutter shall be level or slope to the drains. The spacing between drains shall not exceed 10’ (3048 mm) for 2” (51 mm) drains or 15’ (4572 mm) for 2½” (64 mm) drains, unless hydraulically justified by the design engineer. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1 | Gutters may be eliminated along pool edges for no more than 15’ (4572 mm) and this shall not exceed 10% of the perimeter (at least 90% of the perimeter shall be guttered). |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1 | In areas where gutters are eliminated, handholds shall be provided within 9” (229 mm) of the water surface. Handhold design shall be approved by the jurisdictional building department prior to construction. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.1 | Either recessed-type or open type gutters shall be used. Special designs can be approved provided they are within limits of sound engineering practice. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.1 | Recessed-type gutters shall be at least 4” (102 mm) deep and 4” (102 mm) wide. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.1 | No part of the recessed gutter shall be visible from a position directly above the gutter sighting vertically down the edge of the deck or curb. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.1 | Open-type gutters shall be at least 6” (150 mm) deep and 12” (305 mm) wide. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.1 | The gutter shall slope 2” (51 mm), +/- ¼” (+/- 6 mm), from the lip to the drains. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.1 | The gutter drains shall be located at the deepest part of the gutter. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.2 | All gutter systems shall discharge into a collector tank. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.3 | The gutter lip shall be tiled with a minimum of 2” (51 mm) tile on the pool wall, each a minimum size of 1” (25 mm) on all sides. **Exception**: Stainless steel gutter systems when it can be shown that the surfaces at the waterline and back of the gutter are easily cleanable. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.3 | All tile used on the flat, horizontal part, or the leading edge of an open-type gutter, must be slip resistant. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.1.3 | The back vertical wall of the gutter shall be tiled with glazed tile. **Exception**: Stainless steel gutter systems when it can be shown that the surfaces at the waterline and back of the gutter are easily cleanable. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3 | The design pattern of recirculation flow of pool with skimmer systems is 100% through main drain piping and 60% through skimmer system piping. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2 | Skimmer pool water surface area does not exceed 1000 FT.² (93 m2) excluding offset stairs & swimout.  |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2 | Skimmer pool does not exceed maximum width of 20' (6096 mm). |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.1 | Skimmers shall be tested and approved using the NSF/ANSI Standard 50, Circulation System Components and Related Materials for Swimming Pool, Spas/Hot Tubs, dated April 2007, which is incorporated by reference. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.1 | Skimmer system designed to carry 60% of pool total design flow rate with each skimmer carrying a minimum of 30 gpm (2 L/s). |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.1 | Number of skimmers is based upon 1 for every 400 FT.² (37 m2) or fraction thereof of pool water surface area. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.2 | Prevailing wind direction and the pool outline shall be considered by the designer in the selection of skimmer locations. The location of skimmers shall be such that the interference of adjacent inlets and skimmers is minimized. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.2 | Skimmers do not protrude into pool area. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.2 | The deck or curb shall provide for a handhold around the entire pool perimeter and shall not be located more than 9” (229 mm) above the midpoint of the opening of the skimmer. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.3 | Recessed automatic surface skimmers shall be installed with an equalizer valve and an equalizer line when the skimmer piping system is connected directly to pump suction. If installed, the equalizer valve shall be a spring-loaded vertical check valve which will not allow direct suction on the equalizer line. Float valves are prohibited. Note: Skimmers plumbed without equalizer line (1 port at bottom of skimmer under basket) connected directly to pump suction and skimmers plumbed through gravity system are not required to follow equalizer requirements. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.3 | The equalizer line inlet shall be installed at least 1’ (305 mm) below the normal pool water level and the equalizer line inlet shall be protected by an ASME/ANSI A112.19.8 compliant cover/grate. The equalizer line shall be sized to handle the expected flow with a 2” (51 mm) minimum line size. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.4 | A wall inlet fitting is directly across from each skimmer. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.3.2.5 | A minimum 6” (152 mm) water line tile shall be provided on all pools with automatic skimmer systems, each a minimum size of 1” (25 mm) on all sides. Glazed tile that is smooth and easily cleanable shall be utilized. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.4 | The recirculation pump (when mounted above the water level of the pool) is specified as self-priming. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.4 | If the recirculation pump takes suction prior to filtration, the pump is specified with hair and lint strainer. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5 | Filters are sized to handle the required recirculation flowrate. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.1 | D.E. type filters: Components and materials have been tested and approved using the NSF/ANSI Standard 50, Circulation System Components and Related Materials for Swimming Pool, Spas/Hot Tubs, dated April 2007, which is incorporated by reference. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.4 | D.E. type filters: The recirculation pump provides 60' (18 288 mm) T.D.H. for pressure systems and 50' (15 240 mm) T.D.H. for vacuum systems. Note: Should the total dynamic head required not be appropriate for a given project, the design engineer shall provide an alternative. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.2.1 | D.E. Type filters: The filter is sized such that the filtration rate does not exceed 2 gpm/FT². |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.2.1 | D.E. type filters: Pressure filter(s) are equipped with air relief valves, influent/effluent pressure gauges (2" minimum face diameter), and a sight glass in the waste line. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.2.2 | D.E. type filters: Vacuum filter systems shall be equipped with a vacuum gauge which has a 2” (51 mm) face and reads from 0–30 inches of mercury. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.2.3 | D.E. type filters: A precoat pot or collector tank is be provided.  |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.3 | The D.E.-type filter tank and elements shall be installed such that the recirculation flow draw down does not expose the elements to the atmosphere whenever only the main drain valve is open or only the surface overflow gutter system valve is open. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.3 | D.E. type filters: The filter area shall be determined on the basis of effective filtering surfaces with no allowance given for areas of impaired filtration, such as broad supports, folds, or portions which may bridge |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.3 | D.E. type filters: Filter septa have a minimum 1" (25 mm) clear spacing between elements (up to 4 FT² (0.4 m2) effective area per septum) and the minimum spacing between elements is 1/8" (3 mm) larger for each additional square foot or fraction thereof of septum area over 4 FT² (0.4 m2). |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.3 | D.E. type filters: Vacuum filter tank has coved intersections between the wall and the floor and the tank floor slopes to the filter tank drain. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.8 | D.E. type filters: The filter and vacuuming system shall have the necessary valves and piping to allow filtering to pool, vacuuming to waste, vacuuming to filter, complete drainage of the filter tank, backwashing for sand and pressure D.E.- type filters and precoat recirculation for D.E.-type filters. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.15 | D.E. type filters: Disposal of water from pools using D.E. powder shall be accomplished through separation tanks which are equipped with air bleed valves, bottom drain lines, and isolation valves, or through a settling tank with final disposal being acceptable to local authorities. D.E. separator tanks shall have a capacity as rated by the manufacturer, equal to the square footage of the filter system |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.1 | Sand type filters: Components and materials have been tested and approved using the NSF/ANSI Standard 50, Circulation System Components and Related Materials for Swimming Pool, Spas/Hot Tubs, dated April 2007, which is incorporated by reference. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.4 | Sand type filters: The recirculation pump provides 60' (18 288 mm) T.D.H. for pressure systems and 50' (15 240 mm) T.D.H. for vacuum systems. Note: Should the total dynamic head required not be appropriate for a given project, the design engineer shall provide an alternative. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.1 | Sand type filters: The filter is sized such that the filtration rate does not exceed 3 gpm/FT² for rapid sand filter or 15 gpm/FT² for high rate sand filters (or 20 if so rated by NSF). |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.2.1 | Sand type filters: Pressure filter systems shall be equipped with an air relief valve, influent and effluent pressure gauges with minimum face size of 2” (51 mm) reading 0–60 psi (0–414 kPa), and a sight glass when a backwash line is required.  |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.2.2 | Sand type filters: Vacuum filter systems shall be equipped with a vacuum gauge which has a 2” (51 mm) face and reads from 0–30 inches of mercury. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.3 | Sand type filters: Vacuum filter tank has coved intersections between the wall and the floor and the tank floor slopes to the filter tank drain. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.8 | Sand type filters: The filter and vacuuming system shall have the necessary valves and piping to allow filtering to pool, vacuuming to waste, vacuuming to filter, complete drainage of the filter tank, backwashing for sand and pressure D.E.- type filters and precoat recirculation for D.E.-type filters. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.1 | Cartridge filters: Components and materials have been tested and approved using the NSF/ANSI Standard 50, Circulation System Components and Related Materials for Swimming Pool, Spas/Hot Tubs, dated April 2007, which is incorporated by reference. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.4 | Cartridge type filters: The recirculation pump provides 60' (18 288 mm) T.D.H. for pressure systems and 50' (15 240 mm) T.D.H. for vacuum systems. Note: Should the total dynamic head required not be appropriate for a given project, the design engineer shall provide an alternative. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.1 | Cartridge type filters: The filter complies with the maximum filtration rate of 0.375 gpm/FT² for pleated type cartridges. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.2.1 | Cartridge type filters: Pressure filter systems shall be equipped with an air relief valve, influent and effluent pressure gauges with minimum face size of 2” (51 mm) reading 0–60 psi (0–414 kPa), and a sight glass when a backwash line is required. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.2.2 | Cartridge type filters: Vacuum filter systems shall be equipped with a vacuum gauge which has a 2” (51 mm) face and reads from 0–30 inches of mercury. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.3 | Cartridge type filters: Vacuum filter tank has coved intersections between the wall and the floor and the tank floor slopes to the filter tank drain. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.3 | Cartridge type filters: All cartridges used in public pool filters shall be permanently marked with the manufacturer’s name, pore size and area in square feet of filter material. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.5.3 | Cartridge type filters: All cartridges with end caps shall have the permanent markings on one end cap. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.8 | Cartridge type filters: The filter and vacuuming system shall have the necessary valves and piping to allow filtering to pool, vacuuming to waste, vacuuming to filter, complete drainage of the filter tank, backwashing for sand and pressure D.E.- type filters and precoat recirculation for D.E.-type filters. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.6 | All plastic pipe used in the recirculation system shall be imprinted with the manufacturer’s name and the NSF-pw logo for potable water applications. Size, schedule and type of pipe shall be included on the drawings. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.6 | Plastic pipe subject to a period of prolonged sunlight exposure shall be coated to protect it from ultraviolet light degradation. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.7 | Return line, main drain line, and surface overflow system lines each have proportioning valves. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.8 | All pressure piping is sized such that the flow velocity does not exceed 10' per second (2038 mm/s) at the design flow rate. (**Exception**: Precoat lines when higher velocity is needed for agitation purposes.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.8 | All suction piping is sized such that the flow velocity does not exceed 6' per second (1829 mm/s) at the design flow rate. (**Exception**: Vacuum filter header assembly where velocity may be up to 10' per second (3048 mm/s).) |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.8 | Main drain systems and surface overflow systems which discharge to collector tanks are sized such that the flow velocity does not exceed 3' per second (914 mm/s) at the design flow rate. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9 | Wall inlets are directionally adjustable and are installed a minimum of 12” (305 mm) below the normal operating water level unless precluded by the pool depth or intended for a specific acceptable purpose. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9 | Floor return inlets have a means of flow adjustment. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9 | Floor inlets shall be designed and installed such that they do not protrude above the pool floor and all inlets shall be designed and installed so as not to constitute sharp edges or protrusions hazardous to pool bathers. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9 | Floor inlets for vinyl liner and fiberglass pools, shall be smooth with no sharp edges, and shall not extend more than 3/8” (9.5 mm) above the pool floor. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9.1 | Pools 30' (9144 mm) or less wide, with wall inlets only, have maximum spacing of 20' (6096 mm) between inlets based on pool perimeter. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9.2 | Pools 30' (9144 mm) or less wide, with floor inlets only, have inlets located such that they are not over 20' (6096 mm) apart nor over 10' (3048 mm) from adjacent walls. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9.3 | Pools 30' (9144 mm) or less wide with combination floor and wall inlets meet requirements of either 424.1.6.5.9.1 or .2. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9.4 | Pools greater that 30’ (9144 mm) wide have floor inlets only or a combination of floor and wall inlets. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9.4 | Pools greater than 30' (9144 mm) wide, with floor inlets only, have inlets located such that they are not over 20' (6096 mm) apart or 10' from adjacent walls. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9.5 | Pools greater than 30' (9144 mm) wide with combination floor and wall inlets have wall inlets not over 20' (6096 mm) apart (based on pool perimeter) and floor inlets are provided for the water area beyond 15' (4572 mm) perpendicular distance from all walls. (Floor inlets are located not over 20' (6096 mm) apart and 25' from adjacent walls.) |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9.5 | Floor inlets shall be designed and installed such that they do not protrude more than 5/8” (16 mm) above the pool floor and all inlets shall be designed and installed so as not to constitute sharp edges or protrusions hazardous to pool bathers. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.9.6 | The number of inlets handle the recirculation flow with a maximum flow of 20 gpm (1 L/s) per inlet. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10 | The main drain grate(s) are located at the deepest point in the pool. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10.1 | The depth at the deepest point/main drain grate does not deviate more than 3" (76 mm) from side wall. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10.2 | Outlets are covered by a secure grate which requires the use of a tool to remove. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10.2 | The open area of the main drain grate(s) is such that the flow velocity at the grate(s) does not exceed 1½' per second (457 mm/s) at the design flow rate of the recirculation pump. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10.2 | Main drain covers/grates shall comply with the requirements of ANSI/APSP 16 and the water velocity of this section. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10.3 | Pool over 30' (9144 mm) wide in deep end has multiple main drain grates, equally spaced from the pool side walls and each other. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10.4 | If the area is subject to high ground water, the pool shall be designed to withstand hydraulic uplift or shall be provided with hydrostatic relief devices. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10.5 | The main drain outlet shall be connected to a collector tank. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.10.5 | The capacity of the collector tank shall be at least 1 minute of the recirculated flow unless justified by the design engineer. Note: Vacuum filter tanks are considered collector tanks. |
| Y☐N☐N/A☐ | 454.1Definitions | Collector tank is a reservoir, with a minimum of 2.25 FT2 water (0.2 m2) surface area open to the atmosphere, from which the recirculation or feature pump takes suction, which receives the gravity flow from the main drain line and surface overflow system or feature water source line, and that is cleanable. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.11 | An automatic and manual water makeup control shall be provided to maintain the water level at the lip of the overflow gutter or at the mouth of the recessed automatic surface skimmers and shall discharge through an air gap into a fill pipe or collector tank. Over the rim fill spouts are prohibited. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.12 | A portable or plumbed vacuuming system is provided which allows vacuuming the pool with a hose not more than 50' (15 240 mm) in length. Note: Cleaning devices shall not be used while the pool is open to bathers. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.12  | Vacuum cleaning system pump is provided with hair and lint strainer. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.12 | Vacuum fittings shall be mounted no more than 15” (381 mm) below the water level, flush with the pool walls, and shall be provided with a spring-loaded safety cover which shall be in place at all times when the pool is not being vacuumed. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.12 | Bag type cleaners that operate as ejectors on potable water supply pressure are protected by a vacuum breaker. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.13 | A rate of flow indicator (flowmeter), reading in gpm, shall be installed on the return line. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.13 | The rate of flow indicator shall be properly sized for the design flow rate and shall be capable of measuring from one-half to at least 1½ times the design flow rate.  |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.13 | The clearances upstream and downstream from the rate of flow indicator shall comply with manufacturer’s installation specifications. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.14 | Pool heaters shall comply with nationally recognized standards acceptable to the jurisdictional building department and to the design engineer. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.14 | A sketch of any proposed heater installation including valves, thermometer, pipe sizes, and material specifications shall be included in the application for permit prior to installation. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.14 | If heater is provided, a fixed thermometer is mounted in the pool recirculation line downstream of the heater outlet line connection. Note: Thermometers mounted on heater outlets do not meet this requirement. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.14 | Sufficient valves and piping are provided to allow isolation or removal of the pool heater. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.14 | Heater bypass valve is designed for proportioning flow (gate valve is unacceptable). |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.14 | Material used in solar and other heaters are non-toxic and acceptable for potable water use. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.14 | Heaters shall not prevent the attainment of the required turnover rate. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.15 | Pool waste water shall be discharged through an air gap; disposal shall be to sanitary sewers, storm sewers, drain fields, or by other means, in accordance with local requirements including obtaining all necessary permits. Method of water & DE powder disposal is acceptable. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.15 | All lines shall be sized to handle the expected flow. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.15 | There shall not be a direct physical connection between any drain from a pool or recirculation system and a sewer line. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16 | Disinfection and pH adjustment shall be added to the pool recirculation flow using automatic feeders meeting the requirement of ANSI/NSF 50. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.18 | Only NSF-60 approved chemicals shall be provided. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16 | All chemicals shall be fed into the return line after the pump, heater and filters unless the feeder was designed by the manufacturer and approved by the NSF to feed to the collector tank or to the suction side of the pump. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.1 | Gas Chlorination: The chlorinator shall be capable of continuously feeding a chlorine dosage of 6 mg/L to the recirculated flow of the filtration system. The application point for chlorine shall be located in the return line downstream of the filter, recirculation pump, heater, and flow meter, and as far as possible from the pool. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.1.1 | Gas Chlorination: Gas chlorinators shall be located in above-grade rooms and in areas which are inaccessible to unauthorized persons |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.1.1.1 | Gas Chlorination: Chlorine rooms shall have: continuous forced draft ventilation capable of a minimum of one air change per minute with an exhaust at floor level to the outside, a minimum of 30 footcandles (300 lux) of illumination with the switch located outside and the door shall open out and shall not be located adjacent to the filter room entrance or the pool deck. A shatterproof gas-tight inspection window shall be provided. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.1.1.2 | Gas Chlorination: Chlorine areas shall have a roof and shall be enclosed by a chain-link-type fence at least 6’ (1829 mm) high to allow ventilation and prevent vandalism. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.1.2 | Gas Chlorination: When booster pumps are used with the chlorinator, the pump shall use recirculated pool water supplied via the recirculation filtration system. The booster pump shall be electrically interlocked with the recirculation pump to prevent the feeding of chlorine when the recirculation pump is not operating. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.1.3 | Gas Chlorination: A means of weighing chlorine containers shall be provided. When 150-pound (68 kg) cylinders are used, platform type scales shall be provided and shall be capable of weighing a minimum of two full cylinders at one time. The elevation of the scale platform shall be within 2” (51 mm) of the adjacent floor level, and the facilities shall be constructed to allow easy placement of full cylinders on the scales. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.2 | Hypohalogenation: The hypohalogenation-type feeder and electrolytic chlorine generators shall be adjustable from 0 to full range.  |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.2 | Hypohalogenation: The feeder is capable of feeding a dosage of 6 ppm to the minimum required turnover flow rate (if solution type feeders, a 5% calcium hypochlorite or 10% sodium hypochlorite solution). |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.2 | Hypohalogenation: An electrical feeder, when used, has electrical interlock with the recirculation pump to prevent the disinfectant from siphoning or feeding directly into the pool or pool piping under any type failure of the recirculation equipment. A flow sensor controller may be used. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.2 | Hypohalogenation: Solution crock has a volume equal to at least 50% of the maximum daily feed capacity of the chlorine solution feeder. Solution crock is marked to indicate contents. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.3 | Feeders for pH adjustment shall be provided on all pools. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.3 | pH adjustment feeder: pH adjustment feeders shall be positive displacement type, shall be adjustable from 0 to full range. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.3 | pH adjustment feeder: An electrical feeder has electrical interlock with the recirculation pump to prevent discharge when the recirculation pump is not operating. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.3 | pH adjustment feeder: When soda ash is used for pH adjustment, the maximum concentration of soda ash solution to be fed shall not exceed 1/2-pound (0.2 kg) soda ash per gallon of water. Feeders for soda ash shall be capable of feeding a minimum of 3 gallons (11 L) of the above soda ash solution per pound of gas chlorination capacity. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.3 | pH adjustment feeder: The solution crock volume is at least 50% of the maximum daily capacity of the feeder and is marked to indicate the contents. |
| Y[ ] N[ ] N/A[ ]  | 64E-9.004(9) | A test kit is provided and is capable of testing for free active halogens, total or combined available chlorine, total alkalinity, calcium hardness & pH. |
| Y[ ] N[ ] N/A[ ]  | 64E-9.004(9)(a) | If a salt solution in the pool water is necessary for a chlorine generator, a sodium chloride test kit is provided. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.17 | Water features such as waterfalls or fountains in pools may use up to 20% of the return water from the filter system, however all waters used in the feature shall not be counted toward attaining the designed turnover rate. Example: If designed recirculation flowrate is 100 gpm and the features are using the maximum 20% allowed the cumulative flowrate must now be 120 gpm. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.17 | Return piping system shall be designed and capable of handling the additional feature flow when the feature is turned off. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.17 | Features that require more than 20% of the flow rate shall be supplied by an additional pump that drafts from a suitable collector tank. Example: Recirculation Flow in gpm + Feature flowrate in gpm = required gallons for collector tank(s). |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.17 | All water features that utilize water from the pool shall be designed to return the water to the pool. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.17 | Spray features mounted in the pool deck shall be flush with the pool deck and shall be designed with the safety of the pool patron in mind. |
| Y☐N☐N/A☐ | 64E-9.004(e) | Landscape irrigation water that wets the wet deck area of the pool, the pool itself, enters the collector tank, or wets an interactive water feature must be potable water from a public water system or shall meet the bacteriological quality of potable water as evidenced by annual laboratory analysis submitted to the department. Reclaimed water may not be used in these areas. If reclaimed water is used in the vicinity of the pool (inside of the pool fence or within 100‘of the pool water’s edge) it must employ drip irrigation or soaker hoses. Signs shall be posted notifying pool patrons that reclaimed water is in use, and is not to be consumed. |
| **ELECTRICAL** |
| Y☐N☐N/A☐ | 454.1.10.4.1 | Outlets supplying repaired, replaced, altered, or relocated pool pump motors connected to single-phase, 120-volt through 240-volt branch circuits, whether by receptacle or by direct connection, and outlets supplying all other repaired, replaced, altered, or relocated electrical equipment and underwater luminaires operating at voltages greater than the low voltage contact limit, connected to single-phase, 120-volt through 240-volt branch circuits, rated 15- and 20-amperes, whether by receptacle or by direct connection, shall be provided with ground-fault circuit interrupter protection for personnel. |
| **EQUIPOTENTIAL BONDING** |
| Y☐N☐N/A☐ | 454.1.10.4.2 | Any of the parts specified in Sections 680.26(B)(1) through (B)(7) of the NFPA 70, National Electrical Code that are repaired, replaced, altered, or installed new at an existing swimming pool shall be connected to the existing bonding system using solid copper conductors, insulated, covered, or bare, not smaller than 8 AWG or with rigid metal conduit of brass or other identified corrosion-resistant metal. |
| Y☐N☐N/A☐ | 454.1.10.4.2 | Connections to bonded parts shall be made in accordance with Section 250.8 of NFPA 70, National Electrical Code. |
| Y☐N☐N/A☐ | 454.1.10.4.2 | An 8 AWG or larger solid copper bonding conductor provided to reduce voltage gradients in the pool area shall not be required to be extended or attached to remote panelboards, service equipment, or electrodes. |
| Y☐N☐N/A☐ | 454.1.10.4.2 | All metallic float-in light rings shall be connected to the equipotential bonding grid. |
| Y☐N☐N/A☐ | 454.1.10.4.2 | Float-in light rings with no provision for bonding, and other devices which do not provide an electrical connection between a metallic underwater luminaire and the forming shell of a wet niche fixture, including screws or bolts not supplied by the luminaire’s manufacturer and listed for use with the specific luminaire, shall not be allowed for use with any underwater luminaire that is required to be grounded. |
| Y☐N☐N/A☐ | 454.1.10.4.2 | Where none of the bonded parts is in direct connection with the pool water, the pool water shall be in direct contact with an approved corrosion-resistant conductive surface that exposes not less than 9 IN2 (5800 mm2) of surface area to the pool water at all times. |
| Y☐N☐N/A☐ | 454.1.10.4.2 | The conductive surface shall be located where it is not exposed to physical damage or dislodgement during usual pool activities, and it shall be bonded in accordance with Section 680.26(B) of the NFPA 70, National Electrical Code. |
| Y☐N☐N/A☐ | 454.1.10.4.2 | A bonded concrete pool shell shall be considered to be a conductive surface. |
| Y☐N☐N/A☐ | 454.1.10.4.2 | The interior metallic surface or surfaces of any forming shell (wet niche) shall not be covered with any material, including plaster, except potting compound covering internal bonding connections in conformance with 680.23(B)(2)(b) of NFPA 70, National Electrical Code, shall be allowed. |
| **SUN SHELVES** |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.6(3) | A sun shelf may be installed in pool areas with no more than 4’ (1219 mm) of water depth, or less. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.6(3) | A sun shelf must have a dark contrasting slip-resistant tile marking at the edge of the shelf and the pool wall extending 4” (102 mm) from the horizontal shelf edge surface. Additionally, a 2” (51 mm) contrasting tile line is required on the vertical pool wall at the edge of the shelf. Vinyl liner, stainless steel and fiberglass pools may use other material for the sun shelf edge marking as detailed in Section 454.1.2.3.1, Item 7, provided the material is permanently secured, dark in color, nonfading and slip resistant. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.6(3) | When the edge of a sun shelf uses stairs as a transition, the sun shelf edge tile markings shall comply with step edge requirements as provided in Section 454.1.2.5.3. |
| Y[ ] N[ ] N/A[ ]  | 454.1.2.6(3) | A sun shelf shall not protrude into the 15’ (4572 mm) clearance requirement of Section 454.1.2.6. A sun shelf shall not protrude into the diving bowl. A sun shelf must additionally comply with Section 454.1.2.8. |
| Y☐N☐N/A☐ | 454.1.2.8.1 | Sun shelf areas must be a minimum of 20” (508 mm) wide and provide a minimum of 10 FT2 (0.93 m2) of horizontal surface adjoining on the edge of the pool over a distance of not less than 3’ (914 mm). |
| Y☐N☐N/A☐ | 454.1.2.8.1 | The sun shelf floor shall be horizontal or shall a have uniform slope from a zero-depth entry, and its maximum depth shall be between 8” (203 mm) to 12” (254 mm) below the water surface. |
| Y☐N☐N/A☐ | 454.1.2.8.2 | Where a sun shelf is installed, wet deck-located depth and “NO DIVING” markers shall be placed every 20’ (6096 mm) or less. |
| Y☐N☐N/A☐ | 454.1.2.8.2 | If the vertical distance between the coping or wet deck and the shelf floor adjacent to the wall is 12” (305 mm) or less, these markers shall indicate the water depth of the sun shelf. For open-type gutter pools, the vertical distance shall be measured from the gutter lip to the shelf floor. |
| Y☐N☐N/A☐ | 454.1.2.8.2 | Where vertical distance between the coping or wet deck and the shelf floor adjacent to the wall is more than 12” (305 mm), “No-Entry” markers as described in Section 454.1.9.6.4 shall be provided in the deck. For open-type gutter pools, the vertical distance shall be measured from the gutter lip to the shelf floor. |
| Y☐N☐N/A☐ | 454.1.2.8.2 | When the sun shelf does not use stairs as a transition, depth markers of the adjacent pool depth at the sun shelf edge and “NO DIVING” markers shall be placed on the sun shelf floor, every 10’ (3048 mm) or less, along a line no more than 1’ (305 mm) back from the edge of the sun shelf above the deeper pool. |
| Y☐N☐N/A☐ | 454.1.2.8.2 | All markers shall comply with Items 2, 6 and 7 of Section 454.1.2.3.1, except the distance between them as described in this section shall be followed. |
| Y☐N☐N/A☐ | 454.1.2.8.3 | For the purposes of Section 454.1.2.5, a sun shelf area shall be considered an entrance to or exit from the pool |
| Y☐N☐N/A☐ | 454.1.2.8.3 | If the vertical distance between the coping and the shelf floor adjacent to the wall is more than 10” (254 mm), stairs up to the deck or coping shall be provided which shall comply with Sections 454.1.2.5.3 and 454.1.2.5.5; or a zero-depth entry area complying with Section 454.1.9.6 may be provided instead of stairs. |
| Y☐N☐N/A☐ | 454.1.2.8.3 | For open gutter pools, where the gutter is used as a step, additional steps shall not be required where the distance from the gutter lip to the shelf floor is 10” or less. At least one handrail that is compliant with Section 454.1.2.5.5 must be provided at the sun shelf. |
| Y☐N☐N/A☐ | 454.1.2.8.4 | Additional inlets shall be provided in the sun shelf area. The numbers and location shall be such as to ensure the volume of water in the shelf is filtered and chemically treated once every 60 minutes (1 hour) or less. |
| **ULTRAVIOLET (UV) LIGHT DISINFECTANT EQUIPMENT**  |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.6 | Ultraviolet (UV) light disinfectant equipment may be used as supplemental water treatment on public pools [and additional treatment on interactive water features (IWFs)] subject to the conditions of this paragraph and manufacturer’s specifications. UV is encouraged to be used to eliminate or reduce chlorine-resistant pathogens, especially the protozoan cryptosporidium. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.6(1) | UV equipment and electrical components and wiring shall comply with the requirements of the National Electrical Code and the manufacturer shall provide a certification of conformance to the jurisdictional building department. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.6(2) | UV equipment shall meet UL standards and shall be electrically interlocked with recirculation pump(s) on all pools and with feature pumps(s) on an IWF such that when the UV equipment fails to produce the required dosage as measured by an automated sensor, the feature pump(s) are disabled so the water features do not operate. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.6(3) | UV equipment used in higher risk facilities such as interactive water features, wading pools, and activity pools shall be validated by a capable party that it delivers the required and predicted UV dose at the validated flow, lamp power and water UV transmittance conditions, and has complied with all professional practices summarized in the USEPA Ultraviolet Disinfectant Guidance Manual dated November 2006, which is publication number EPA 815-R-06-007 available from the department at http://www.floridashealth.org/Environment/water/swim/ index.html or at <http://www.epa.gov/safewater/disinfection/lt2/pdfs/guideit2_uguidance.pdf>. **Exception**: Not applicable when Section 454.1.9.8.6.1 alternative is used. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.6(4) | UV equipment shall constantly produce a validated dosage of at least 40 mJ/cm2 (millijoules per square centimeter) at the end of lamp life. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.6(5) | The UV equipment shall not be located in a side stream flow and shall be located to treat all water returning to the pool or water features. |
| **OZONE EQUIPMENT**  |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.4 | Ozone generating equipment may be used for supplemental water treatment on public swimming pools subject to the conditions of this section. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.4.1 | Ozone generating equipment electrical components and wiring shall comply with the requirements of Chapter 27 of this code and the manufacturer shall provide a certificate of conformance. The process equipment shall be provided with an effective means to alert the user when a component of this equipment is not operating. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.4.2 | Ozone generating equipment shall meet NSF/ANSI Standard 50. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.4.3 | The concentration of ozone in the return line to the pool shall not exceed 0.1 mg/L. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.4.4 | The injection point for ozone generating equipment shall be located in the pool return line after the filtration and heating equipment, prior to the halogen injection point, and as far as possible from the nearest pool return inlet with a minimum distance of 4’ (1219 mm). Injection methods shall include a mixer, contact chamber, or other means of efficiently mixing the ozone with the recirculated water. The injection and mixing equipment shall not prevent the attainment of the required turnover rate of the recirculation system. Ozone generating equipment shall be equipped with a check valve between the generator and the injection point. Ozone generating equipment shall be equipped with an air flow meter and a means to control the flow. The generator shall be electrically interlocked with the recirculation pump to prevent the feeding of ozone when the recirculation pump is not operating. A flow sensor controller can also be used to turn off the feeder when flow is sensed. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.4.5 | Ozone generating equipment shall be installed in equipment rooms with either forced draft or cross draft ventilation. Below-grade equipment rooms with ozone generators shall have forced draft ventilation and all equipment rooms with forced draft ventilation shall have the fan control switch located outside the equipment room door. The exhaust fan intake for forced draft ventilation and at least one vent grille for cross draft ventilation shall be located at floor level. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.4.6 | A self-contained breathing apparatus designed and rated by its manufacturer for use in ozone contaminated air shall be provided when ozone generator installations are capable of exceeding the maximum pool water ozone contact concentration of 0.1 milligram per liter. The self-contained breathing apparatus shall be available at all times and shall be used at times when the maintenance or service personnel have determined that the equipment room ozone concentration exceeds 10 mg/L. Ozone generator installations which require the self-contained breathing apparatus shall also be provided with Draeger-type detector tube equipment which is capable of detecting ozone levels of 10 mg/L and greater. **Exception**: In lieu of the self-contained breathing apparatus, an ozone detector capable of detecting 1 mg/L may be used. Said detector shall be capable of stopping the production of ozone, venting the room and sounding an alarm once ozone is detected. |
| **IONIZATION EQUIPMENT** |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.5 | Ionization units may be used as supplemental water treatment on public pools subject to the condition of this section. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.5.1 | Ionization equipment and electrical components and wiring shall comply with the requirements of Chapter 27 of this code and the manufacturer shall provide a certification of conformance. |
| Y[ ] N[ ] N/A[ ]  | 454.1.6.5.16.5.2 | Ionization equipment shall meet NSF/ANSI Standard 50, Circulation System Components and Related Materials for Swimming Pools, Spas/Hot Tubs, or equivalent, shall meet UL standards and shall be electrically interlocked with recirculation pump. |
| **COPPER/SILVER IONIZATION EQUIPMENT** |
| Y[ ] N[ ] N/A[ ]  | 454.1.10.3 | The installation of copper or copper/silver ionization units and ozone generators capable of producing less than a pool water ozone contact concentration of 0.1 milligrams per liter (mg/L) shall not be considered a pool repair or alteration provided compliance when the following is met: |
| Y[ ] N[ ] N/A[ ]  | 454.1.10.3(1) | The ionization or ozone generator unit complies with paragraph 64E-9.008(10) (e), Florida Administrative Code. |
| Y☐N☐N/A☐ | 64E-9.008(10) (e) | Disinfection and pH adjustment shall be maintained as added to the pool recirculation flow using automatic feeders meeting the requirement of NSF/ANSI Standard 50-2012. All chemicals shall be fed into the return line after the pump, heater and filters, unless the feeder was designed by the manufacturer and approved by the NSF to feed to the collector tank or to the suction side of the pump. Feeding chlorinated isocyanurates disinfectant is prohibited in spas, wading pools and interactive water features. Dual or multiuse feeders can be used if approved for and feeding an acceptable rate of alternate disinfectant. Where pH adjustment feeders are not present on these three types of pools that were required to replace chlorinated isocyanurates feeders, pH adjustment feeders shall be installed. Exception: spa pools of 100 FT2 or less with original department approval to be built without a pH adjustment feeder.4. Ozone generating equipment – a. The concentration of ozone in the return line to the pool shall not exceed 0.1 mg/L.b. Ozone generating equipment shall be maintained as equipped with an air flow meter and a means to control the flow. The generator shall be maintained as electrically interlocked with the recirculation pump to prevent the feeding of ozone when the recirculation pump is not operating. A flow sensor controller can also be used to turn off the feeder when flow is not sensed.5. UV equipment used for any purpose shall constantly produce a dosage of at least 40 mJ/cm2 (milliJoules per square centimeter).6. Ozone generators shall produce no more than a pool water contact concentration of 0.1 milligrams per liter (mg/L). The contact concentration in mg/L shall be calculated as the amount of ozone in grams per hours divided by the recirculation flow rate in gallons per minute times 4.41. |
| Y[ ] N[ ] N/A[ ]  | 454.1.10.3(2) | The manufacturer provides one set of signed and sealed engineering drawings indicating the following:a.The unit does not interfere with the design flow rate.b. The unit and the typical installation meet the requirements of the National Electrical Code.c. A copper test kit and information regarding the maximum allowed copper and silver level and the minimum required chlorine level shall be available to the pool owner.d. The unit shall meet the requirements of NSF/ANSI Standard 50. |
| Y[ ] N[ ] N/A[ ]  | 454.1.10.3(3) | At least 7 days before the time of installation, the installer will provide a photocopy of the above drawings and a letter of intent identifying the pool on which the unit is to be installed. |
| Y[ ] N[ ] N/A[ ]  | 454.1.10.3(4) | Upon completion of the installation, a professional engineer or electrician licensed in the state of Florida shall provide a letter to the county health department, indicating the unit was properly installed in accordance with the typical drawings, the National Electrical Code and local codes. |