

## Swimming Pool, Spa and Splash Pad New Construction Checklist

A plan review fee of \$450 per body of water

One Copy of a COMPLETED application and at least 1 physical copy and 1 digital copy of detailed plans

PLEASE REVIEW R392-302 IN PREPARING PLANS FOR SUBMITTAL. THIS CHECKLIST IS A BRIEF SUMMARY OF CRITICAL REQUIREMENTS, BUT MAY NOT CONTAIN ALL INFORMATION REQUIRED

### APPLICATIONS AND PLANS MUST BE COMPLETE OR THEY WILL NOT BE PROCESSED

#### PLANS MUST INCLUDE:

- Wet stamp from a design Architect or Engineer
- Calculation Sheet showing
  - Total dynamic head
  - Return loop head loss
  - Estimated flow through skimmers and main drains
  - Maximum system flow rate
  - Main drain calculations
- The water supply serving a public pool and all plumbing fixtures (must meet DEQ drinking water standard).
  - All portions of water supply, re-circulation, and distribution systems must be protected against backflow.
  - Water introduced into the pool, either directly or through the circulation system, must be supplied through an air gap.
- Must discharge waste water (i.e. backwash) to a public sanitary sewer system.
  - Where no public sanitary sewer system is available, the health department may approve connections made to a disposal system designed, constructed, and operated in accordance with the minimum requirements of R317-4.
  - Pool must connect to a sewer or wastewater disposal system through an air gap.
  - Pools may drain non-waste waters to green space provided that the water will not leave the pool owners property and surface waters will not be affected.
- Pool, spas, and related equipment must be constructed of materials that are inert, non-toxic, impervious, and resist the effects of wear and deterioration from chemical, physical, radiological, and mechanical actions.
- Drain covers must be compliant with the Virginia Graeme Baker act of 2008
- Pools shall be constructed with a pool shell that meets the requirements of R392-302-6.
  - Vinyl liners that are not bonded to a pool shell are prohibited. Vinyl liners that are used must be at least a 60 mil thick.
  - Sand, clay or earth walls or bottoms are prohibited.
  - The pool shell shall by itself withstand, without any damage to the structure, the stresses of complete emptying of the pool without shoring or additional support.
- The interior surface of each pool must be smooth, easily cleanable, non-abrasive, and slip resistant.
  - The pool shell surface must be of a white or light pastel color.
- A pool must have a circulation system with necessary treatment and filtration equipment as required in R392-302-16
- Pools must be continuously disinfected and may not be batch chlorinated.
  - Spa pools and interactive water features are required to have Oxidation-reduction Potential electronic controllers for feeding chemicals.
  - All automatic chemical feeders, must be interlocked by at least 2 different methods, usually flow and power.

- The horizontal slope of the floor of any portion of a pool having a water depth of less than 5 feet may not be steeper than 10%.
  - Slope of the floor of any portion of a pool having a water depth greater than 5 feet, must be uniform, must allow complete drainage and may not exceed a ratio of 1 to 3 except for a pool used exclusively for scuba diving training. The horizontal slope of the pool bottom in diving areas must be consistent with the requirements for minimum water depths as specified in Section R392-302-11 for diving areas.
- Pool walls must meet the requirements of R392-302-10
- Underwater ledges are prohibited
- Underwater seats and benches are allowed in pools so long as they:
  - Are located completely inside of the perimeter shape of the pool
  - A maximum of 20 inches below the water line
  - A minimum of 10 inches, and a maximum of 20 inches front to back, and a minimum of 24 inches wide
  - The pool wall under the seat or bench shall be flush with the leading edge of the seat or bench
  - A line must mark the extent of the seat or bench within 2 inches of its leading edge. in a contrasting dark color
- Diving Areas must meet the requirements of R392-302-11
- Areas of a pool where diving is not permitted must have "NO DIVING" or the international no diving icon, or both provided in block letters at least four inches in height in a contrasting color on the deck, located on the horizontal surface of the deck or coping as close to the water's edge as practical.
  - The spacing between each warning may be no greater than 25 feet.
  - Where the icon alone is used on the deck as required, the operator shall also post at least one "NO DIVING" sign in plain view within the enclosure. Letters shall be at least four inches in height with a stroke width of at least one-half inch.
- Steps, ladders, or recessed steps must be provided for additional details see R392-302-12
  - Handrails must be rigidly installed and constructed in such a way that they can only be removed with tools.
- A continuous, unobstructed deck at least 5 feet, wide must extend completely around the pool.
  - Deck obstructions are allowed to accommodate diving boards, platforms, slides, steps, or ladders so long as at least 5 feet of deck area is provided behind the deck end of any diving board, platform, slide, step, or ladder.
  - Other types of deck obstructions may also be allowed on a case-by-case basis
  - Decks and walkways must be constructed to drain away any standing water and must have non-slip surfaces.
  - Wooden decks, walks or steps are prohibited.
- Deck drains may not return water to the pool or the circulation system.
- A fence or other barrier is required and must be at least 6 feet in height measured from the outside.
  - Must be equipped with a self-closing and self-latching gate or door.
  - All gates for the pool enclosure shall open outward from the pool.
- The depth of the water must be plainly marked at locations of maximum and minimum pool depth, and at the points of separation between the swimming and non-swimming areas of a pool.
- Pools must be marked at intermediate 1-foot increments of depth, spaced at distances which do not exceed 25 feet.
  - Markings must be located above the water line or within 2 inches from the coping on the vertical wall of the pool and on the edge of the deck or walk next to the pool with numerals at least 4 inches.
- All pools must be equipped with adequate safety equipment and post appropriate signage
- Adequate restrooms must be provided for each gender. At least one enclosed shower must be provided for each gender. A minimum of two restrooms is required unless the total bather load is less than 25 persons