

# Pennsylvania Uniform Construction Code

## Swimming Pool Requirements

1. Permit Application

2. Municipal Checklist Completed and the Questionnaire filled out

### 3. Electrical Requirements

#### 4. Bonding

The equipotential bonding required by this section shall be installed to reduce voltage gradients in the prescribed areas of permanently installed swimming pools and spas and hot tubs **other than the storable/portable type**.

#### 5. E4204.3 Pool water bonding

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 in. of surface area to the pool water at all times. 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 IRC E4204.2.

- All metal within 5' of inside wall of pool shall be bonded to the pool with #8 solid copper. **Excluding aboveground pool uprights and other miscellaneous metal parts**. Pool motor or heater needs to be bonded to the pool with a #8 solid copper wire.
- Metal fittings. All metal fittings within or attached to the pool structure shall be bonded. Isolated parts that are not over 4 inches in any dimension and do not penetrate the pool structure by more than 1 inch (25.4 mm) shall not require bonding.
- If the ladder is metal, it must also be bonded to the pool.
- Bonding connectors shall be stainless steel, brass, copper, or copper alloy.

#### 6. Receptacles

Receptacles that provide power for water-pump motors or other loads directly related to the circulation and sanitation system shall be permitted to be located between 6 feet and 10 feet from the inside walls of pools and outdoor spas and hot tubs, where the receptacle is single and of the grounding type and protected by ground-fault circuit interrupters. Other receptacles on the property shall be located **not less than 6 feet** from the inside walls of pools and outdoor spas and hot tubs.

- Conduit for the pool pump shall be minimum cover of 12" when the circuit is GFCI protected before the conduit enters the ground.
- Pool pump receptacle shall be mounted on a post usually 4' x 4' pressure treated. Pool pump receptacle feed wires shall be individual conductors in conduit PVC or metal.

## 7. Fencing Requirements

- **In ground pool must be fenced in or swimming pools with a powered safety cover that complies with ASTM F 1346.**
- Fence must be a minimum of four (4) feet high with a self-latching and self-closing gate of a sturdy material.
- The latch must be at least fifty-four (54) inches above the ground, or at least three (3) inches below the top of the gate.
- The gate and fence shall have no opening greater than one-half (1/2) inch within  
Fence may be installed around the entire property or just the pool area, and of a type that does not encourage climbing, such as metal mesh with openings of less than two and one-quarter (2¼) inches in size, or vertical baluster-style with less than four (4) inch openings.
- **For more information on barriers see :  
Safety Barrier Guidelines on this website.**

## 8. Required Inspections

### **Above-ground Pool**

- Final Inspection Only
  - Pool and Barrier / Fence must be complete
  - Electrical systems and metal component bonding complete

### **In-ground Pool**

1. Pre-Pour Inspection
  - a. All rebar in-place with proper clearances to ground
  - b. Rebar bonding and equipotential bonding is complete
2. Final Inspection
  - a. Pool and Barrier / Fence must be complete
  - b. Electrical systems and metal component bonding complete

**If a deck is incorporated with an above ground pool a Deck Submittal is also required.**

These instructions are informational only and do not include all possible applications.

