

---

# Pennsylvania Uniform Construction Code

## SWIMMING POOL REQUIREMENTS

The following items are required to be included with the Swimming Pool Application. A permit is required for any swimming pool that contains water over twenty-four (24) inches in depth.

1. A Plot Plan showing all setbacks must be submitted.
2. A Building and Electrical Permit Application must be completed & submitted.
3. Building/Zoning permits are required for pool decks (including concrete surrounding in-ground pools), fences, and/or heaters.
4. A PA One Call serial number and date called are required.
5. Electrical Requirements
  - Convenience receptacle is needed 10' to 20' from the pool GFCI protected.
  - Pool pump receptacle needs to be 20 amp twist lock GFCI protected with an in use cover (5' away from pool).
  - 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.
  - Pool motor needs to be bonded to the pool with a #8 solid copper wire.
  - If the ladder is metal it must also be bonded to the pool.
  - All metal within 5' of inside wall of pool shall be bonded to the pool with #8 solid copper.
  - Bonding connectors shall be stainless steel, brass, copper or copper alloy.
6. Fencing Requirements
  - Pool must be fenced in.
  - 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 eighteen (18) inches of the release mechanism.
  - The gate must swing away from the pool area.

(over)

- 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.
- Each dwelling door that directly accesses the pool area shall be equipped with an alarm that sounds at least 30 seconds when the door is opened, and is audible throughout the dwelling.

## 7. Required Inspections

### Above-ground Pool

1. Final Inspection Only
  - a. Pool and Barrier / Fence must be complete
  - b. Electrical systems and metal component and water 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 and water bonding complete

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

## Typical Above Ground Code Compliant Pool

- Must have the following when applying for Permit:
  - Site Plan
  - Manufactures Installation Instructions
  - Electrical Requirements for Pump
- Provide minimum horizontal clear distance around pool that maintains a height of 4 ft. and a removable or locking ladder. G105.2
- All bonding must be with #8 bare copper solid wires. E4204.2
- **A.** Bonding wire must be 18" to 24" from pool 4" to 6" under surface attached to pool at minimum of 4 points. Attachment not required if shell is not conductive. E4024.2(2.2)
- Pump must be bonded or if pump does not have a bonding lug the bonding wire must be connected to the ground at the receptacle. E4203.7(6.1)
- All bonding connections must be made by listed and labeled clamp for that application. Do not use sheet metal screws on connection to pool. Use stainless steel nut and bolt for clamp. E4204.5.2
- No ground rods allowed. E4204.5.1(3)
- **B.** Pool water must be bonded with a minimum of 9 Square Inches in contact with water or listed approval fitting. E4204.3
- **C.** Single twist-lock GFCI protected receptacle with in use cover no closer than 6' from pool for pump. Pump cord can't be longer than 3'. E4203.1.1
- **D.** One general use GFCI protected receptacle 6' to 20' from pool with in use cover. E4203.1.2
  - If this receptacle is new, it must have WR on it (Weather Resistant type). E4002.8
- **E.** Minimum 18" below surface (E3803.1) in conduit with insulated ground. E4205.5
  - Must use weatherproof wiring (no Romex). E4205.5

