

All pools greater than 24" deep need a building permit and must comply with the following NYS requirements:

All pools need a pool alarm which complies with ASTM F2208, except pools with automatic power safety covers which meet ASTM F1346.

All pools need a temporary 48" tall barrier in place during construction. This must be replaced with a permanent barrier (fence) within 90 days of construction of the pool. See the fence requirements below.

For above ground pools:

If not at least 48" tall, it must have a permanent fence around it. This can be mounted to the pool itself. All fences must meet the fence requirements below.

If a deck is around it, it must meet the fence requirements below.

If pool is 48" tall and there is no deck, it needs locking ladder, or removable ladder. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4" diameter sphere.

Adding a deck later requires a building permit, and the fence requirements below will apply.

For in-ground pools:

Must have a permanent fence around it. It must meet the fence requirements below.

If using the house wall as part of the barrier, doors that open into the pool area need door alarms, windows that open into the pool area need a latching device at least 48" above the floor and operable window openings must be limited to less than 4".

Fence Requirements:

Fences & gates must be at least 48" above grade, measured on the outside of the enclosure. The gap between the bottom of the fence and ground cannot be greater than 2".

All gates must be self-closing & self-latching and open outward, away from the pool. The latch must be on the pool side of the gate, and at least 40" above the ground. If it is less than 52" above the ground, the latch handle must be at least 3" below the top of the gate and there cannot be any openings in the fence or gate greater than 1/2" within 18 inches of the latch handle.

For lattice or welded wire mesh type fence, horizontal members must be on the inside of the pool enclosure, the holes in the fence cannot exceed 1 3/4" in width.

For picket style fence, with top and bottom rail (rails must be at least 45 inches apart) the vertical members must not allow passage of a 4" sphere.

Chain link fence, max mesh size is 2 1/4"

**ELECTRICAL CODE RULES BASED ON 2017 N.F.PA -70
RESIDENTIAL CODE OF New York STATE 2020**

1. Circuit for pump motor shall not have less than # 12 AWG insulated copper grounding wire, and to be in conduit, except when entering building can change to NM cable **680.21(A) (1-4)** If using 15 amp breaker 14 gauge wire for hot and neutral, the ground wire must be #12.
2. All receptacles supplying circulation and sanitation system equipment must be at least six feet from the inside wall of the pool and must be of the grounding type and GFCI protected. **680.22 (A) 2**
3. Pump motor cord shall not exceed 3' and shall have a grounding wire of not smaller than # 12 AWG copper. **680.7**
4. Circuit line for pump motor shall be a continuous circuit going directly to panel box and shall have no other outlets. **430-22(A)**
5. A receptacle used unattended in a wet location shall have a watertight in-use cover. **406.8 (B)(1)**
6. All underground UF wire and PVC conduits must be 18" deep, unless circuit is protected by GFCI upstream then 12" deep. **300.5** Only electric specific to the pool is allowed less than 5" feet to the water's edge and must be 18" deep and be installed in an approved raceway. **680.10**
7. Required Receptacle Location. At least one 15A or 20A, 125V receptacle must be located not less than 6 ft and not more than 20 ft from the inside wall of a permanently installed pool. This receptacle must be located not more than 6 1/2 ft above the floor, platform, or grade level serving the permanently installed pool.
9. All metal parts must be bonded together with a No. 8 or larger solid copper wire must be used.
(Motor, ladders pool frame, diving board, lights, etc.) **680-22 / E4104.1**
A minimum of 9 square inches of metal must be in water to bond water.
Also must be bonded to bonding ring #10
10. Perimeter equipotential bonding ring all pools shall have #8 CU 18 -24 inches from edge of pool and 4- 6 inches deep in the dirt. **680.26 (B) (2)** (Your typical above ground)
11. Inground pools with conductive shells require special bonding of all metal parts and bonding at all four corners. Consult with the pool installer for specifics.
12. When bonding pool frame or any metal parts to main bonding wires or wire mesh, you must use non-corrosion clamps. **680-22(A) (B) / E4104.1**
13. For dry niche, wet niche, no niche lighting fixtures. **680-20, 680-25 (B) / E4106**
14. For any lighting fixtures outside of pool. **680-6 (b) (1) (2) (3) / E4103.4.3**