



TOWN OF STRATHAM

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SWIMMING POOLS

THESE REGULATIONS SHALL NOT BE APPLICABLE TO PREFABRICATED POOLS LESS THAN 24" DEEP, BASED ON THE 2018 INTERNATIONAL SWIMMING POOL and SPA CODE.

FENCE and BARRIER REQUIREMENTS

1. Above ground pool structure as a barrier. A pool wall 48" in height complies with the barrier requirements. Ladders or steps used as a means of access must be capable of being secured, locked or removed to prevent access except where the ladder or steps are surrounded by a barrier that meets the above requirements.
2. Spas and hot tubs with a lockable safety cover that complies with ASTM F 1346 are **exempt** from the barrier requirement.
3. Swimming pools with a powered safety cover that complies with ASTM F 1346 are **exempt** from the barrier requirement.
4. The top of the barrier shall be at least 48" above grade measured on the side of the barrier which faces away from the swimming pool for a distance of 3' horizontally.
5. The vertical clearance between grade and the bottom of the barrier shall not exceed 2" for grade surfaces that are not solid such as grass. The vertical clearance between grade and the bottom of the barrier shall not exceed 4" for grade surfaces that are solid.
6. Where the top of the pool or spa structure is above grade, the barrier shall be installed on grade or shall be mounted on the top of the pool or spa structure. Where the barrier is mounted on the top of the pool or spa, the vertical clearance between the top of the pool or spa and the bottom of the barrier shall not exceed 4".
7. Openings in the barrier shall not allow passage of a 4"-diameter sphere.
8. Chain link dimensions. The maximum opening formed by a chain link shall not be more than 1 3/4".
9. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions that create handholds or footholds.
10. There shall be a clear space of not less than 36" between the exterior of the barrier and any permanent structure or equipment. A clear space of not less than 20" between the edge of the water and the required barrier.
11. See the 2018 International Swimming Pool and Spa Code for the use of mesh as a barrier, horizontal and diagonal barrier members.

GATES

1. Gates shall be self-closing and latching. The gate and barrier shall not have openings larger than 1/2" with - in 18" of the latch mechanism.
2. Where the release mechanism of the self-latching device is located less than 54" from grade, the release mechanism shall be located on the pool or spa side of the gate not less than 3" below the top of the gate and the barrier shall not have openings greater than 1/2" within 18" of the release mechanism.
3. Access gates not intended for pedestrian use shall remain locked when not in use.

DWELLING WALLS as part of the required barrier

Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met.

1. Operable windows having a sill height less than 48" above the floor and doors shall have an alarm that

produces an audible warning when the window or screens or door opened. The alarm shall be listed as a water hazard entrance alarm in accordance with UL 2017. The alarm operable parts must be located 54 inches above the floor.

2. A safety cover that is listed and label in accordance with ASTM F 1346 is installed or
3. An approved means of protection, such as self-closing doors with self-latching devices is provided. Such means of protection shall provide a degree of protection that is not less than the protection afforded by the above two items.

SWIMMING POOL WIRING BASED ON THE 2020 NATIONAL ELECTRICAL CODE- Article 680

Use #8 solid copper wire for bonding - Bond all metallic non-current carrying parts of a pool:

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| a. Pool reinforcing steel. (An above-ground pool does not have reinforcing rods, so you will need to bond the circulating pump to one metal pool support.) | d. Ladders |
| b. Metal conduits | e. Diving board |
| c. Lighting fixtures | f. Circulating pump motor |
| | g. Metal junction boxes |
| | h. Pool heaters |

PVC or liquid tight flexible must be used as a raceway for underwater lights - and must terminate in a service panel board or remote panel board. An insulated green wire (not smaller than #12 wire) must be used for the equipment ground - *unbroken*.

Underwater lights over 15 volts must have ground-fault circuit-interrupter (GFI) protection

The circulating pump must have GFI protection – 120 volts, only if an outlet is used.

- a. If an outlet is used to feed the circulation pump a rain-tight outlet cover (not your standard weatherproof cover) must be used so the outlet will remain weatherproof with the plug inserted. This outlet must be a minimum 6' from the pool wall.
- b. If the circulating pump is hardwired: A switch and ground fault protection are required (120 or 240 volt, single phase)

An outside, GFCI protected outlet must be installed not less than 6' and not more than 20' from the edge of the pool.

Single Family Dwellings: PVC or conduit must be used from the dwelling to the outlet or switch at the pump.

The PVC conduit must be buried at least 18". Expansion joints must be used at both ends. Romex may be run from electrical panel to a weatherproof box on the exterior of the dwelling. Do not use Romex or UF cable in PVC or conduit; use solid type jacketed THHN, do not use bare copper wire to ground the pool pump.

Equipotential Bonding around the pool or spa/hot tub:

- a. At least on 8 AWG bare solid copper conductor shall be provided.
- b. The conductors shall follow the contour of the perimeter surface located 18" to 24" from the inside of the pool walls and 4" to 6" below grade.

Pool Water - Where none of the bonded parts are 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 square inches of surface area to the pool water at all times. This conductive surface shall be bonded in accordance section 680.26(B).

Other than storable pools, the flexible cord shall not exceed 3' in length and shall have copper equipment grounding conductor not smaller than #12 wire.

In-ground metal pool: If the pool is of metal construction and suitably welded or bolted together, only one bonding connection needs to be made to the pool from the circulating pump.

Ground rods are not required by code for any pool.

The cord from the pump to the outlet must be a #12/2 AWG wire with cord cap and have a weatherproof connector for the pump. Please read the 2020 National Electrical Code for finer points.