



TOWN OF FREMONT, NH
SWIMMING POOL INFORMATION SHEET



Drowning is the 2nd leading cause of accidental death in the home for children under 5 years of age!

A swimming pool shall not be constructed, installed, enlarged or altered until construction documents have been submitted and permit has been obtained from the building official. Plans sufficient to show conformance to requirements shall be submitted as part of the application.

The pool and any associated equipment must meet the minimum lot line setbacks.

The pool can not be placed over the septic tank or the over leach field.

This information sheet for swimming pools applies only to outdoor residential dwelling units (single family, two-family or one-family townhouse). Additional provisions may apply for other applications. Additional provisions for indoor pools apply. Additional provisions may apply for spas and hot tubs.

Swimming pool regulations do not apply pre-fabricated swimming pools less than 24 inches, except where such pools might be equipped with a water re-circulating system or involve structural materials.

The State Building Code, IRC 2006 governs all swimming pools, wading pools, decorative pools, fountains, hot tubs and spas, and hydromassage bathtubs, whether permanently installed or storable and applies to all auxiliary equipment. NEC 70 Chapter 680 governs the specific electrical provisions for all equipment in or adjacent to Pools.

Outdoor private swimming pools, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be provided with a barrier which shall comply with the following: and as defined by Appendix G, IRC2006

1. The top of the barrier shall be at least 48 inches above finish ground level measured on the side of the barrier which faces away from the swimming pool. The barrier must be build such as to obstruct access to the pool.
2. The maximum clearance from grade to bottom of barrier is 2 inches or if barrier is placed on the top of the pool the maximum clearance from top of pool to bottom of barrier is 4 inches.
3. When the barrier is constructed of horizontal and vertical members and the distance between the horizontal members is less than 45 inches than the vertical member spacing must not exceed 1 ¾ inches or when horizontal construction is more than 45 inches between horizontal

- members the vertical spacing must not exceed 4 inches. The horizontal members must be located on the pool side of the barrier.
4. Maximum mesh size for chain link fence shall be a 2 ¼ inch square unless the fence is provided with slats fastened at the top or the bottom reducing the openings to not more than 1 ¾ inches.
 5. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not more than 1 ¾ inches.
 6. Access gates shall comply with the requirements of items 1 through 5 above, and shall be equipped to accommodate a locking device.
 7. Access gates shall open outwards away from the pool and shall be self-closing and have a self-latching device.
 8. Gate release mechanisms must be greater than 54 inches from grade or release mechanisms must be placed on the pool side at least 3 inches below top of gate and there can be no openings greater than 1/2 inch within 18 inches of the release mechanism
 9. Where a wall of a dwelling serves as part of the barrier, one of the following shall apply:
 - a. All doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and its screen, if present, are open. (30 seconds continuous – automatically resetting – 15 second deactivation is allowed with control at least 54 inches from floor) or
 - b. the pool shall be equipped with an approved power safety cover.
 10. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a fixed or removable ladder or steps, the ladder or steps shall be surrounded by a barrier which meets the requirements of items 1 through 8 above or the ladder or steps shall be capable of being secured, locked or removed.

Permanent structures, equipment, or similar objects are not to be located so as to provide access or allow climbing upon any of the pool barrier or otherwise lessen the protection provided by the barrier; this includes the creation of any ground contours constructed such as to allow for any decreased barrier protection.

Entrapment protection for Swimming Pool and Spa Suction outlets are detailed within the building code. The manufacturer or installer of the pool must insure that these provisions are in compliance.

Electrical code compliance shall meet the following minimal standards and be in full compliance with NEC Article 680, Swimming Pools.

1. The pool motor wiring must be a minimum of 12 gauge copper and must have a green insulated equipment conductor. THWN singles must be in conduit the entire length once outside the dwelling.
2. For in-pool lighting the insulated grounding conductor must be completed to the panel box and must continue both inside and outside the dwelling.
3. No non-pool wiring underground within 5 feet of the pool.
4. The disconnecting means for all equipment must be readily accessible and within site (except lighting). Each disconnecting means shall be located at least 5 ft. from the pool, hot tub, or spa.
5. Bonding – **all** parts of pool structure and equipment – exception allowed for storable pools. Bonding conductor size = min. 8 AWG – must be solid, not stranded wire.
6. Cord-and-plug – maximum cord length 3 feet with grounding type attachment plug and copper equipment grounding conductor of not smaller than 12 AWG. Exception 25 foot length allowed for storable pools
7. No receptacles within 10 feet of the pool unless: consisting of single dedicated receptacle, locking type, grounding type and GFCI protected. Generally this to accommodate the power to the pool pump and filter motor and may be located between 6 feet and 10 feet from the pool.
8. A minimum of one (1) receptacle must be provided at least 6 ft and not more than 20 ft from pool walls – exception where space limited may be within 5 ft. The receptacle is not to be located more 6 ft 6 inches above pool or grade. This receptacle is in addition to the dedicated receptacle noted for the circulation equipment.
9. All 15 – 20 amp 125 volt receptacles within 20 ft must be GFCI protected.
10. Outlets that supply pool pump motors and that are 15-20 amp, 125v or 240v shall be GFCI protected. This is required whether by receptacle or by direct connection.
11. GFCI protection is required for all lights greater than 5 ft and less than 10 ft from pool and less than 5 ft above horizontal line.

12. No lights less than 5 ft from pool unless 12 ft above surface – existing fixtures on structure may be ok if less than 5 ft from pool and GFCI protected and greater than 5 ft above water.
13. Any tri-plex service above or within 10 ft of pool must have 22 ft clearance.
14. Equipotential bonding required by the code is mandatory and requires that all conductive pool shells, metallic components, underwater lighting, metal fittings, electrical equipment, and any metal wiring methods be properly connected so as to create an equipotential bond.
15. All perimeter surfaces within 3 feet horizontally shall be bonded. The includes all walking surfaces around the pool.
16. When no known bonding grid is provided with direct contact with the water an intentional bond of a minimum conductive surface of 9 sq inches shall be installed in contact with the pool water.
17. Storable pools with cord-connected pool filters shall be provided with a ground-fault interrupter integral to the power supply cord. This must be connected to a GFCI receptacle.

It is highly recommended that the barrier and electric planning be submitted and reviewed with your application prior to proceeding with the installation. The code provisions are minimum requirements and are not subject to waivers.