

TOWN OF RYE

10 Central Road Rye, NH 03870
(Phone) 964-9800 (Fax) 964-2964

SWIMMING POOL PERMIT APPLICATION

Property Owner: _____ Phone: _____
Property Address: _____ Tax Map/Lot No. _____ - _____
Is this property in the Rye Beach Village District? Yes. No. Zoning District: _____

Contractor's Name: _____ Phone: _____
Address: _____ Town: _____ State: _____ Zip: _____
Email: _____ Cell Phone: _____
Flood Zone _____ Distance to Nearest Wetland _____
Brief Description of work: _____

Any "structure" that holds more than 24" of water is considered a pool and must use these regulations for safety.
ALL ELECTRICAL WIRING, for the pool to be done by a N.H. licensed Master electrician after obtaining a permit.

INFORMATION REQUIRED FOR SUBMITTLE:

- 1). Minimum 8 1/2 x 11 plot plan showing, the location and dimensions of the proposed pool, pool decks, patios, aprons and mechanicals.
- 2). Distances to existing structures, lot lines, septic systems, wetlands, wetland buffers, flood hazard areas, and utilities.
- 3). Include the location and description of the pool barrier. An outdoor swimming pool, including an inground, above ground, or on ground pool, hot tub or spa shall be surrounded by a barrier. A barrier being, a fence, wall, building wall or combination thereof which completely surrounds and obstructs access to the swimming pool.
 - a). The top of the barrier shall be a minimum of 48" above grade.
 - b). All gates and doors must be self-closing and self-latching. Pedestrian access gates shall open outward from the pool.
 - c). The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches.
 - d). Openings in the barrier shall not allow passage of a 4-inch-diameter sphere.
 - e). Other requirements as set forth in Chapter 42 and Appendix G of the 2009 International Residential Code.
 - f). Spas and hot tubs with a safety cover which complies with ASTM F 1346 shall be exempt from barrier requirements.
- 4). **NO WATER**, is allowed in any swimming pool, hot tub or spa until the barrier requirements have been met and completed.
- 5). Where a wall of a dwelling serves as part of the barrier, one of the following must apply.
 - a). Doors with direct access to the pool shall be equipped with an alarm that produces an audible warning when the door and/or its screen, if present are opened.
 - b). The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346.

In signing this application, you agree to the following:

The Town of Rye and its employees have the right to enter this property to perform any required inspections.
It's the owner's and owner's representatives' responsibility to comply with all local, state and federal regulations, codes, and ordinances. While the Town of Rye and its employees do plan review and inspections, nothing relieves the owner from this responsibility. If signed by someone other than the owner it is understood that the owner is still responsible for complying with all local, state, and federal regulations, codes, and ordinances.

Printed Name of Person Signing: _____
Signed by Owner: _____ Date: _____
Owner Representative: _____ Date: _____

FEE:

Application Fee \$50.00

Estimated cost of pool: _____ **Permit fee of 1%:** _____

Total Fee _____

FOR OFFICE USE ONLY

Approved By: _____ Permit No. Issued: _____ Date: _____
Fee Received: _____ check _____ cash _____
Name on Check _____

Revised 6-2019

TOWN OF RYE

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(Phone) 964-9800 (Fax) 964-2964

SWIMMING POOL BARRIER AFFIDAVIT

Property Owner: _____ Phone: _____

Property Address: _____ Tax Map/Lot No. _____ - _____

Is this property in the Rye Beach Village District? ☐ Yes. ☐ No. Zoning District: _____



Pool Permit No: _____

Approval Date: _____

*(To be filled in by Rye Building Department
at time Permit is issued)*

As owner of the property located at _____ I have read and I am aware of the requirements for swimming pool safety barriers. I assure that the swimming pool safety barriers have been installed and are compliant as specified by the following:

- 1) The IRC, The International Residential Building Code.
- 2) The IBC, International Building Code.
- 3) The Town of Rye NH Zoning Ordinances.

In addition, I assure that the swimming pool will not be used or otherwise occupied, until a final inspection is made and passed by the Town of Rye Building Department. Although anyone can schedule the final inspection, The New Hampshire State Wide Building Code as adopted by The Town of Rye NH, assigns specific responsibility for scheduling all required inspections. (Section 110. 2009 IBC), (Section R109. 2009 IRC).

One of the following protection devices shall be installed at the above address.

1) All doors leading into the pool area are equipped with an alarm. The alarm sounds continuously for at least thirty (30) seconds or until the alarm is manually reset. If the door closes within the 30 second period, the alarm is manually reset. The alarm is capable of being heard throughout the building during normal activities. The alarm automatically resets under all conditions. (OR)

2) All doors leading from the building into the pool area are equipped with self-closing and self-latching devices. The latch is at least fifty-four (54) inches above the floor.

I realize that by signing this affidavit I am responsible for ensuring that the swimming pool is properly protected by the required barriers as referenced above, during the construction process, after construction is completed, then continually and properly maintained in good working order, to include any and all alarms. This assignment of responsibility applies to me whether I am the permit holder or if I hire a contractor for installation as permit holder.

Owner's Name, please print

Owner's Signature

State of New Hampshire, County of Rockingham

On this _____ day of _____ in the year of 20__ before me (Notary Public), personally appeared _____ known to me, (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is (are) subscribed to this instrument and acknowledged that they executed it.

WITNESS my hand and official seal.

Notary's Signature _____

Notary's Name _____

My Commission Expires: _____

SWIMMING POOL PERMIT REQUIRED INSPECTIONS

At all times during construction a temporary barrier with a minimum height of forty-eight inches is required and must completely surround the pool construction area. The barrier shall be sound and secure to prevent unsupervised access. The pool shall not be filled with water, until the permanent barrier has been completed, inspected, and approved.

GROUND STAKING, POOL PLACEMENT: Prior to obtaining a permit, stake out area of construction to include the pool, any related accessory structures and mechanicals. Identifying property lines, setbacks, buffer zones, septic systems and easements. A completed and signed copy of The Rye Installation Fact Sheet for Pools, Spas and Hot Tubs.

BELLY STEEL: This inspection is required prior to the placement of any gunite within the pool. Structural rebar grid in place with a minimum of 3/8" rebar installed no more than 12" apart horizontally and vertically. Bonding shall be done on this grid with a minimum #8 or larger solid copper bonding conductor around the pool belly and looped a minimum of 4 times up to the pool deck steel and fixtures. Pool plumbing shall be inspected and subject to a static water test or air pressure test.

DECK STEEL, ELECTRIC BOND, UNDERGROUND ELECTRIC, PLUMBING: Before any concrete is placed for the pool deck, the placement of reinforcement steel and the electrical bond shall be inspected and approved. Any decking with reinforcement steel must be prepared and properly bonded with a minimum #8 or larger solid copper conductor. Any other equipment requiring bonding must be in its roughed in location available for inspection. Pool plumbing shall be inspected and subject to a static water test or air pressure test.

- 1) A permanently installed pool must have at least one GFCI protected electrical receptacle located within 10 to 20 feet of the from the inside edge of the pool. All 125-volt receptacles located within 20' of the pool must have ground fault circuit protection. (NEC 680-22 a) (21c)
- 2) An electrical receptacle for a recirculating pump motor must be a minimum of 6 feet from the inside edge of the pool and must be of the single and locking type. (NEC 680-22 a) (21c)
- 3) Existing lighting fixtures may not be located within 5' measured horizontally, and 5' measured vertically from the inside edge of the pool, and the maximum water level of the pool. New lighting fixtures may not be located within 5' measured horizontally from the inside edge and 12' vertically from the maximum water level of the pool.
- 4) All metal parts must be bonded together by a copper conductor, #8 or larger, and all electrical equipment, to include the circulator motor, must have an insulated copper grounding conductor, #12 or larger, which must be run with the circuit conductors in conduit back to the electrical panel. (NEC 680-26)
- 5) Conductors for in pool lighting must be run in conduit from the junction box near the pool, back to the electrical panel and must include an insulated copper ground wire #12 or larger. (NEC 680-23)

POOL FINAL INSPECTION; Prior to the addition of water. All pool barriers are in place and functional. All mechanicals, motors or heating units complete and ready for use. Final grading complete, with any erosion control in place.



TOWN OF RYE, NH

REQUIREMENTS FOR THE INSTALLATION OF POOLS, SPAS AND HOT TUBS

- ☐ Follow all requirements outlined as referenced in, The International Residential Code “APPENDIX G SWIMMING POOLS, SPAS AND HOT TUBS”
- ☐ Follow all requirements outlined in the International Residential Code “Chapter 42 “SWIMMING POOLS”; construction and installation of electric wiring and equipment.
- ☐ Follow all requirements outlined in the International Residential Code for the installation of equipment, tanks and supply lines.
- ☐ When installing an in ground or above ground pool you must complete and submit (with your permit application) the Town of Rye Swimming Pool Barrier Affidavit. This must be signed by the **OWNER OF THE PROPERTY** and Notarized.
- ☐ Without this affidavit, regardless of who is applying for the construction permit, the application will not be processed.

The State of New Hampshire Adopted Building Codes, which incorporates the International Residential Code (IRC), establishes minimum regulations to govern the construction of buildings and structures. The specific requirements for the installation of pools, spas and hot tubs are covered in the IRC, Appendix G and Chapter 41. Other sections may also apply for related equipment installations.

Supplemental information on Safety Barrier Guidelines can be obtained through the U.S. Consumer Product Safety Commission, Publication No. 362 (www.cpsc.gov). Note that this guide explains the reasons for many of the requirements in detail, however, it does not match all requirements in the IRC Appendix G. Always refer to Appendix G for specific details.

As indicated in CPSC Publication 362, “Each year hundreds of young children die and thousands come close to death due to submersion in residential swimming pools”. The following statistics quoted in this publication reinforce the need for effective barriers and diligent supervision:

- 75% of the children involved in swimming pool submersion or drowning accidents were between the ages of 1 and 3 years old.
- Most victims were being supervised by one or both parents.
- Boys between 1 and 3 years old were most likely victims of fatal drownings and near-fatal submersions.
- Nearly half of the child victims were last seen in the house before the pool accident occurred.
- Fully 69% of the children who became victims in swimming pool accidents were not expected to be in the pool but were found drowned or submerged in the water.
- 65% of the accidents occurred in a pool owned by the victim’s immediate family, and 33% of the accidents occurred in pools owned by relatives or friends.
- Fewer than 2% of the pool accidents were a result of children trespassing on property where they didn’t live or belong.
- 77% of the swimming pool accident victims had been missing for five minutes or less when they were found in the pool drowned or submerged.

These statistics speak for themselves; codes provide minimum requirements which must be met, and inspections ensure that installations are in compliance. However, they are not a substitution for common sense. Without careful attention to barrier maintenance and diligent supervision by responsible people, the potential for fatal accidents can only increase.

To ensure that **specific responsibility** is assigned for the installation of **safety barriers** during the construction / installation processes of above ground and in ground swimming pools and after the pool completed, a “Pool Fence Affidavit” must be **signed by the property owner** and submitted as part of the permit application. This signed affidavit removes any ambiguity as to barrier requirement responsibility, specifically during the construction processes but also after construction is completed.

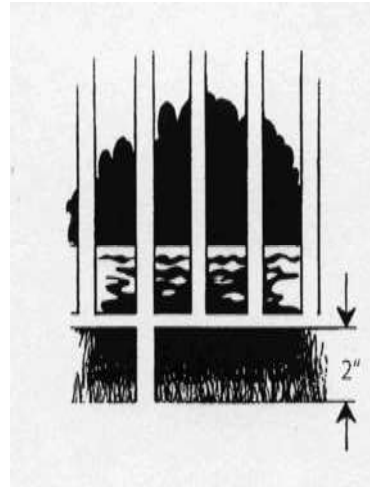
In situations where existing, adjacent physical structures (rocks, ledges, decks, fences, landscaping outcrops, etc.) are in such a position where they can be used to climb over or otherwise defeat the intent of the required pool barriers, the barriers must be relocated or otherwise modified to meet the intent of the Code. In addition, if after the barrier is installed a structure is constructed which causes the barrier requirements to be compromised, it is the responsibility of the pool owner to notify the constructor of the problem and pursue whatever course of action necessary to ensure all barrier requirements are restored to meet the intent of the Code.

Visual Interpretations of Some of the IRC Appendix G Barrier and Glazing requirements:

Barrier Minimum Height:



Barrier Maximum Bottom Clearance:

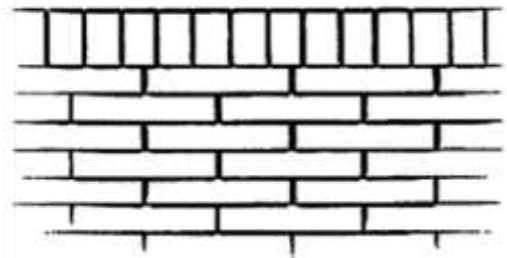


Solid Barrier:



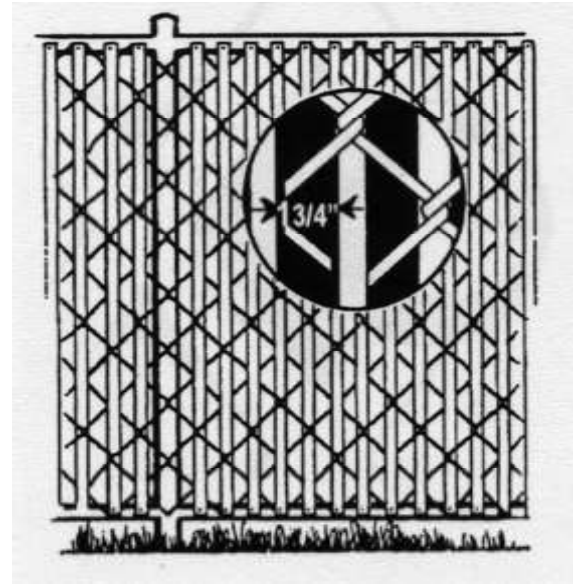
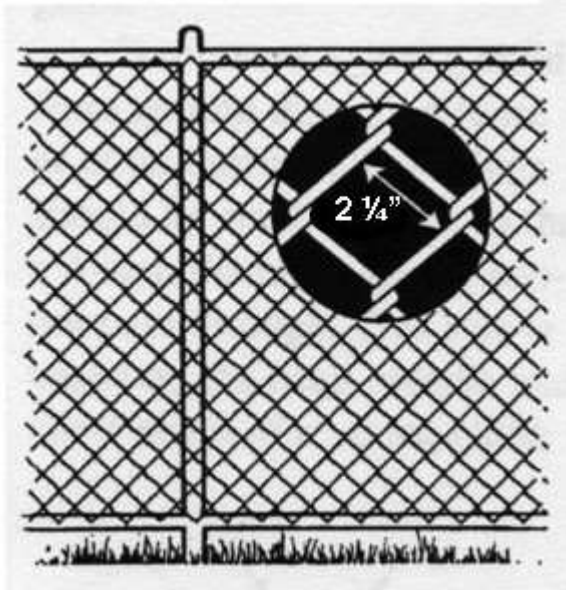
The picture to the left is a violation and shows an example of a stone wall that enhances climbing. Bricks, support posts, and similar construction must not provide hand or foot hold for climbing.

(e). Solid Barrier: No indentations or protrusions shall be present, other than normal construction tolerances and masonry joints.



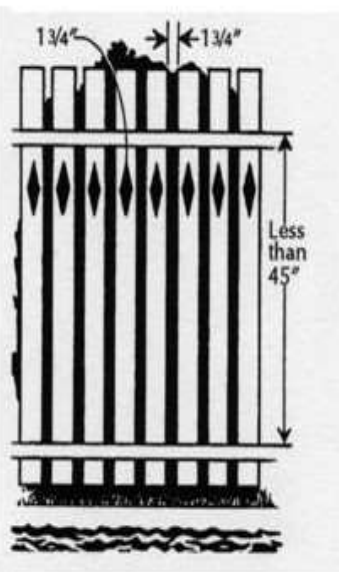
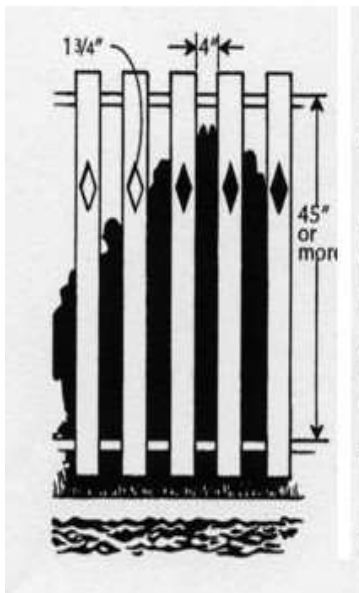
Chain Link Fence:

The chain link mesh size must not exceed 2 ¼" provided that slats are fastened at the top and bottom to reduce the mesh openings to no more than 1 ¾".

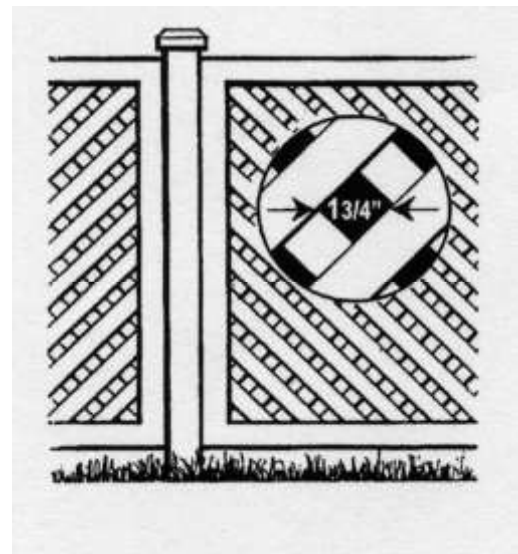


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Picket Fences:

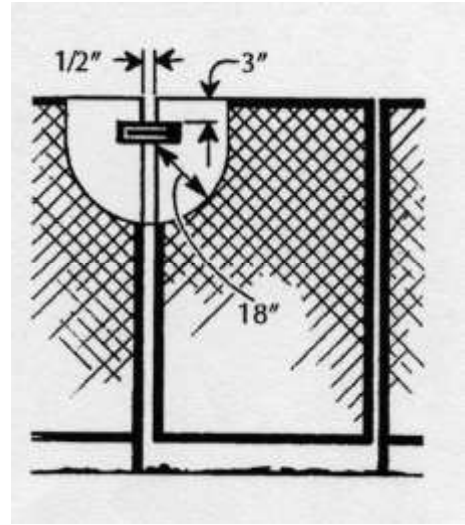


Lattice Type Fence:

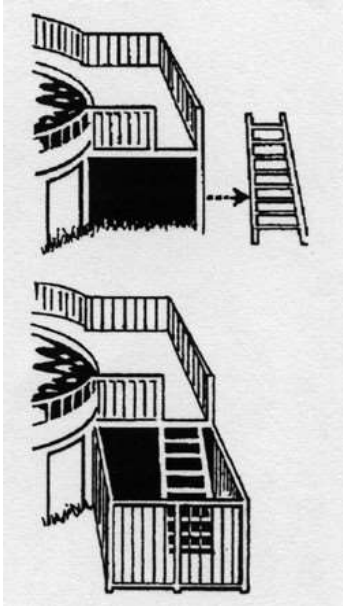


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Pedestrian Gates



Gate must *swing out* and be *self-closing & self-latching*. When the release mechanism is less than 54" from bottom of gate, it must be at least 3" below the top of the gate and located on the side of the gate facing the pool. There must be no opening in the gate greater than 1/2" within 18" of the release mechanism.



Above Ground Pools with Integral Decks:

In this example the pool structure and associated deck serve as a barrier at 48" per The International Residential Code and Appendix G. To meet the requirements of The Building Code, the barrier must extend beyond to not less than 48" above grade. This requirement is also applied to a removable or hinged ladder. For a non-removable ladder or a fixed stair system, the enclosure shall meet all barrier requirements as laid out in the codes as referenced.

The total barrier height shall not be less than 48".

Above Ground Pool with Barrier On top of Pool

If the distance from grade to the top of the pool wall is less than 45".
The vertical member spacing shall be no more than 1 3/4".

If the distance from grade to the top of the pool wall is greater than 45".
The vertical member spacing shall not have openings which allow passage of a sphere 4" in diameter.

The total barrier height shall not be less than 48".

Door Alarms:



Doors with direct access to the pool must be equipped with alarms meeting Appendix G requirements (alarms meeting UL 2017 are acceptable). Door alarms associated with home security systems will not usually meet these requirements. This does “NOT” replace the requirement for Pool Barriers.

Tempered Glazing:



Tempered glazing is required in walls and fences enclosing indoor and outdoor swimming pools, hot tubs and spas where the bottom edge of the glazing is less than 60” above a walking surface and within 60” horizontally of the water’s edge.

Spas & Hot Tubs:

See Appendix G - specific barrier exceptions for spas & hot tubs with safety covers meeting ASTM F 1346.

Temporary Barriers installed during Construction:

Temporary barriers erected during construction activities must, be structurally sound and prevent unsupervised access prior to filling the pool with water. **Fiberglass type pools require filling with water when set in place, and as such, barriers must be in place at that time.** Barriers must meet basic height and opening requirements indicated in the IRC, Appendix G and Chapter 41. Other sections may also apply for related equipment installations. These barriers shall not be less than 48” above grade and be firmly secured to grade around the perimeter to prevent access. Points for access in the barrier or points where the barrier can be joined together and closed must be done at structural supports. During construction activities when the barrier is opened or otherwise compromised, the site must be continuously supervised by a responsible person. Until the permanent barrier is in place, the temporary barrier must be maintained. If, during inspections, a barrier meeting these requirements is not in place, no inspection will be made and a **“Stop Work Order”** will be posted.

The “**Stop Work Order**” will not be removed until all required fees are paid and a barrier inspection approved”.

Depending on the extent of the hazard, the Town may have the pool drained if **immediate** action is not taken and will not be responsible for damages resulting from this action.

Electrical Wiring and Equipment Installation

- All electrical wiring and equipment installation must be done in strict accordance with IRC Chapter 42. Note that concrete decking surrounding a pool which contains steel components such as reinforcing steel mat or rebar must be bonded in accordance with E4204 and requires inspection prior to concrete placement.
- Pool & Spa water heaters must be installed in accordance specific manufacturer’s instructions (to be on site for inspections). See IRC M2006 for details. Electric pool heaters must be tested in accordance with UL 1261 and oil-fired heaters tested in accordance with UL 726. If the Pool heater is gas or oil and the tank and lines are being installed under a separate permit, the heater must also be listed on the pool permit or whatever permit covers the electrical connections.

Inspections

INSPECTION	Requirements Prior to Inspection
Electric/Steel & Bonding	<ul style="list-style-type: none">• Framework must be in place and bonded (Typical; vinyl liner pools)• All required reinforcing steel must be in place and properly bonded. Any decking with metal reinforcement must be prepared and properly bonded. Any other equipment requiring bonding must be in its roughed in location.• If problem soil, inspection must be made by engineer
Site Trenching/Conduit/Residential	<input type="checkbox"/> All conduit must be installed at proper depth(s)
Electric/Rough-in	<input type="checkbox"/> Wiring rough-in completed including rough in for heaters, etc.
Mechanical/Gas Line/Outside (As Applicable)	<input type="checkbox"/> Gas / Oil pool heater line installation; proper materials & depth with pressure test, prior to concealment
Mechanical/Tanks/Propane/ Oil (As Applicable)	<input type="checkbox"/> New tank installation associated with pool heater. Anode placement (Propane), prior to concealment.
Mechanical/Rough-In (As Applicable)	<input type="checkbox"/> Pool Heater; PTR valve & piping & connections. (manufacturer’s instructions to be on site)

Final Inspection	<input type="checkbox"/> Pool heater must be completely installed (as applicable).
	<input type="checkbox"/> Appliances, slides, motors, pumps, receptacle outlets, lighting, panels, switches, etc. must be properly installed, secured and operational. <input type="checkbox"/> All permanent barriers, safety covers, removable / fold up ladders must be in place and operational including door alarms, etc. <input type="checkbox"/> All work as indicated on the permit must be completed including final inspections on any retaining walls issued on associated permits.