App. Approved_____
Date Authorized Official

App. Disapproved_____
Date Authorized Official

Board Decisions_____ Case # _____

_____

TOWN OF CLAY

4401 Route 31, Clay, NY 13041 (315)652-3800

RESIDENTIAL SWIMMING POOL PERMIT APPLICATION

Department of Planning & Development

Permit Number_____

Date Filed_____

Tax Map Number _____-_____-_____

*****Applicant – do not write above this line***** *****Visit us online at** www.townofclay.org

FEES:

_____ Above Ground Pool $ 60.00

size _____

depth _____

_____ Inground Pool $ 120.00

size _____

_____ Fence for enclosure $ 30.00

_____ Deck around pool $ 30.00

_____ Jacuzzi, Hot tub $ 60.00

_____ with a cover

Property Information:

Address _____

City_____ State_____ Zip_____

Owner Information – PLEASE PRINT

Property Owner_____

Owner's Address_____

City_____ State_____ Zip_____

Owner's Phone No.(H)_____(W)_____

Owner's Signature_____

Total Value: $_____

Permit Fee: $_____**(Cash or Check Only)**

Contact email:_____

Please check the electrical agency you have hired to do your electrical inspection.

_____1. CNY Electrical Inspection Service, LLC - attached work order # _____
_____2. Commonwealth Electrical Inspection Agency - attached work order # _____
_____3. Middle Department Inspection Agency - attached work order # _____
_____4. The Inspector Electrical Agency - attached work order # _____
_____5. Upstate Electrical Inspection Agency - attached work order # _____

Pool Alarm - Make_____ Model_____Quantity____ ***Door Alarm*** Make_____Model_____Quantity____
Window Latch/Latches Make_____Model_____Quantity_____
Entrapment Device Protection Plan for in-ground pools. Make_____ Model_____

Contractor Installing Pool_____ Address _____
Contractor installing other structures _____
Contractor Liability Insurance attached _____on file_____
Contractor Disability Insurance attached _____on file_____
Contractor Workman's Compensation attached _____on file_____

APPLICATION IS HEREBY MADE to the Commissioner for the issuance of a Building Permit pursuant to the New York State Uniform Fire Prevention and Building Code for the construction of buildings, additions, alterations, swimming pools, or for removal or demolition, as herein described. The applicant agrees to comply with all applicable laws, ordinances and regulations.

Date **Owners Signature**

Swimming Pool Permit Checklist

- ☐ Electrical work order number from one of the five approved 3rd party electrical inspectors.
- ☐ Door alarm information UL2017 Compliant (If Applicable)
- ☐ Window latches
- ☐ Pool alarm information ASTM F22208 Compliant
- ☐ Entrapment Protection Plan
- ☐ Compliant Pool Barrier Plan
- ☐ Plot Plan / Survey showing pool/pump/filter location. Distances off the property lines and other structures.

Sample pool plan

Show the Distance the pool and mechanicals will be off the property lines and other structures located on the lot.

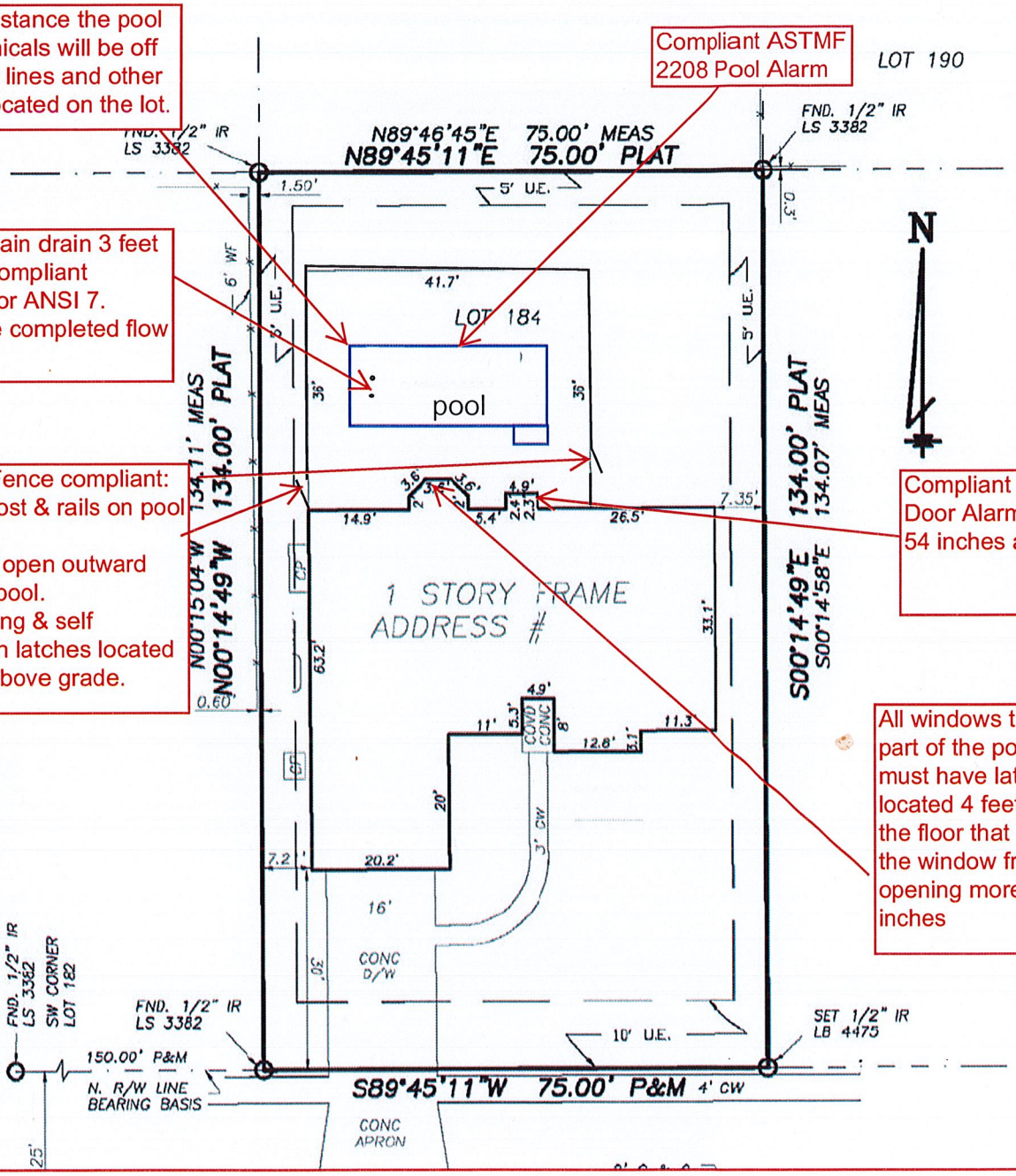
Compliant ASTMF 2208 Pool Alarm

Dual main drain 3 feet apart compliant SVRS or ANSI 7. provide completed flow chart.

NYS Pool Fence compliant:
1. Barrier post & rails on pool side.
2. All gates open outward away from pool.
3. Self closing & self latching with latches located 54 inches above grade.

Compliant UL 2017 Door Alarm mounted 54 inches above floor

All windows that are part of the pool barrier must have latches located 4 feet above the floor that prevent the window from opening more than 4 inches

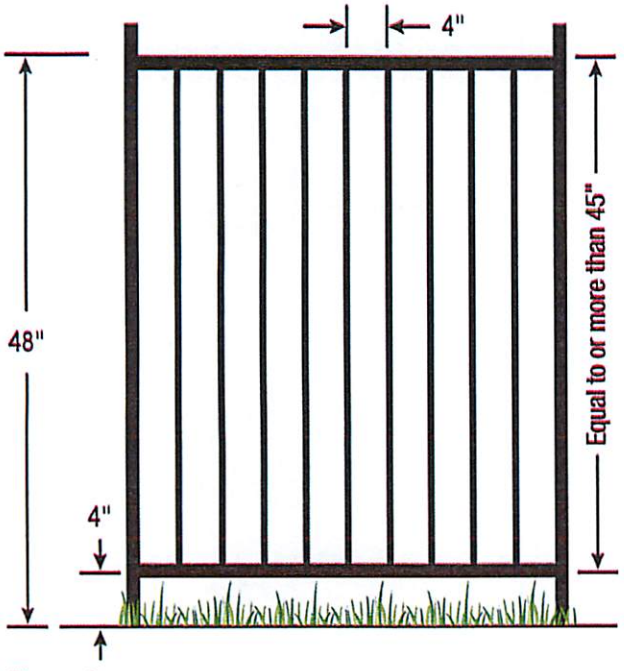


Notes:
1. All zoning setbacks apply to pool, pumps, filter, Heater, etc.....
2. No Structures, equipment, or fill permitted in any easements.
3. In lieu of UL2017 door alarm. Doors may be made self-closing and latching with child proof cover over the handle, or a safety latch located 54 inches above finish floor.
4. Barriers shall be located so as to Prohibit Permanent Structures, equipment, or similar objects from being used to climb the barrier.
5. Fences, Pool pumps, Filters and Heaters must be located 4 feet away from the waters edge.
6.All Electrical to be Inspected and passed by an approved 3rd party electrical inspector prior to final inspection.
7. An outdoor swimming pool shall be surrounded by a temporary barrier during installation or construction that shall remain in place until a permanent barrier (in compliance with section R326.4.2) is provided. With the exception of an above ground pool where the pool structure is a compliant barrier.
8. No overhead electrical lines shall be maintained within 20 feet of the nearest portion of the pool or appurtenances.
9. Any proposed construction, excavation or site work within 50 feet of any such right-of-way or property line shall not be commenced until the applicant has submitted to the Town of Clay Planning Board a statement, Verified by a licensed land surveyor, showing the depthof the transmission line from existing grade, and the Planning Board has approved such construction, excavation or site work

A successful pool barrier prevents a child from getting **OVER**, **UNDER**, or **THROUGH** and keeps the child from gaining access to the pool except when supervising adults are present.

How To Prevent a Child from Getting OVER a Pool Barrier

A young child can get over a pool barrier if the barrier is too low or if the barrier has handholds or footholds to use when climbing. The top of a pool barrier should be at least 48 inches above grade, measured on the side of the barrier which faces away from the swimming pool. Some states, counties or municipalities require pool barriers of 60 inches.



Eliminate handholds and footholds and minimize the size of openings in a barrier's construction.

Figure 1

For a Solid Barrier

No indentations or protrusions should be present, other than normal construction tolerances and masonry joints.

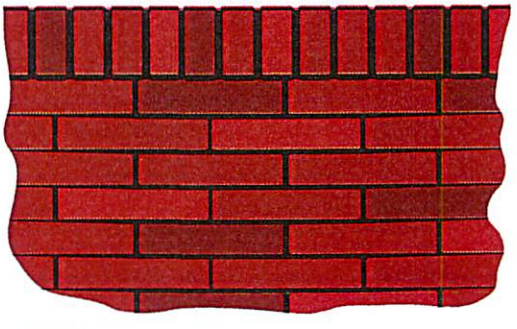


Figure 2

For a Barrier (Fence) Made Up of Horizontal and Vertical Members

If the distance between the top side of the horizontal members is less than 45 inches, the horizontal members should be on the swimming pool side of the fence.

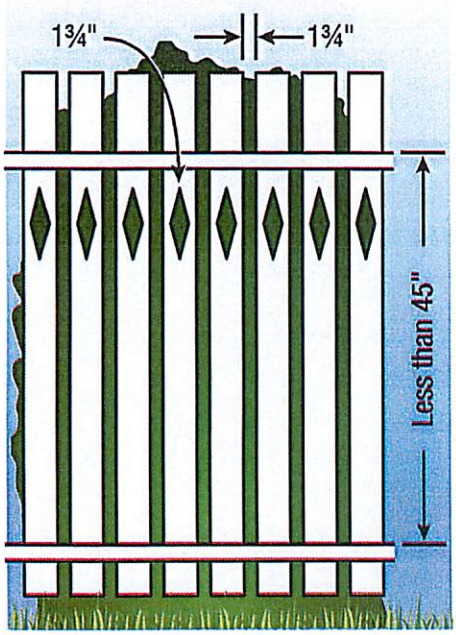


Figure 3

The spacing between vertical members and within decorative cutouts should not exceed 1¾ inches. This size is based on the foot width of a young child and is intended to reduce the potential for a child to gain a foothold and attempt to climb the fence.

If the distance between the tops of the horizontal members is more than 45 inches, the horizontal members can be on the side of the fence facing away from the pool. The spacing between vertical members should not exceed 4 inches. This size is based on the head breadth and chest depth of a young child and is intended to prevent a child from passing through an opening. If there are any decorative cutouts in the fence, the space within the cutouts should not exceed 1¾ inches.

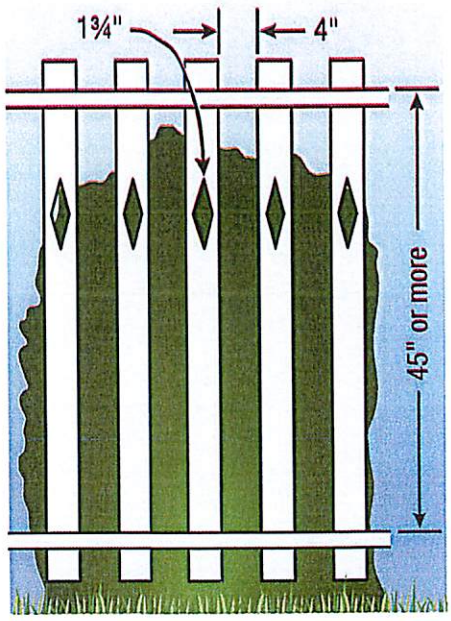


Figure 4

For a Chain Link Fence

The mesh size should not exceed 1¼ inches square unless slats, fastened at the top or bottom of the fence, are used to reduce mesh openings to no more than 1¾ inches.

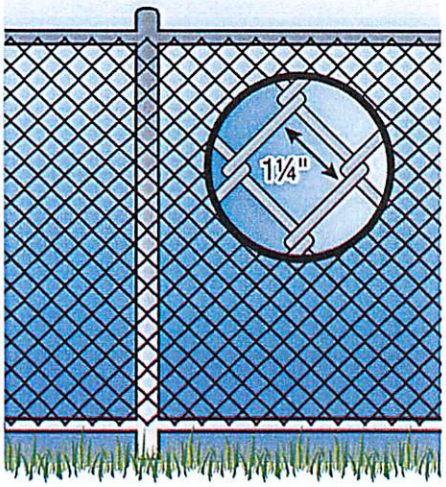


Figure 5

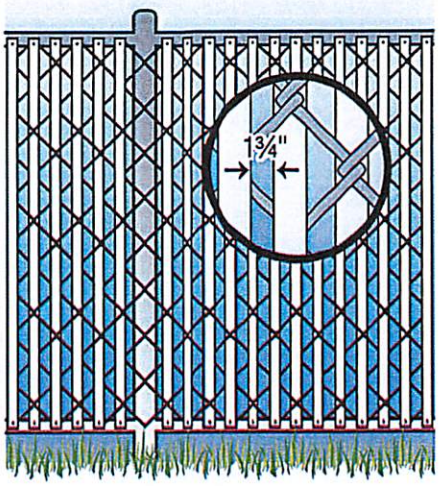


Figure 6

For a Fence Made Up of Diagonal Members or Latticework

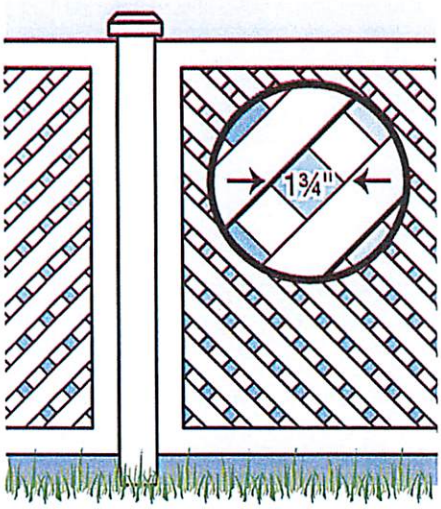


Figure 7

The maximum opening in the lattice should not exceed 1¾ inches.

For Above Ground Pools

Above ground pools should have barriers. The pool structure itself serves as a barrier or a barrier is mounted on top of the pool structure.

There are two possible ways to prevent young children from climbing up into an above ground pool. The steps or ladder can be designed to be secured, locked or removed to prevent access, or the steps or ladder can be surrounded by a barrier such as those described in these guidelines

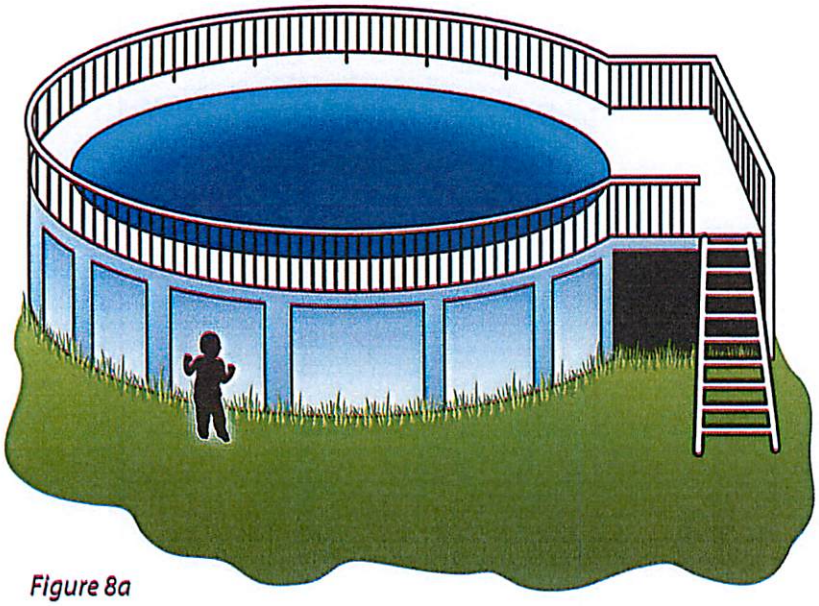


Figure 8a

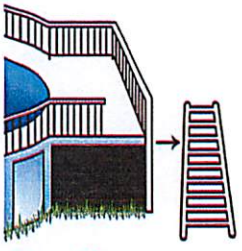


Figure 8b

Figure 8c

Above Ground Pool with Barrier on Top of Pool

If an above ground pool has a barrier on the top of the pool, the maximum vertical clearance between the top of the pool and the bottom of the barrier should not exceed 4 inches.

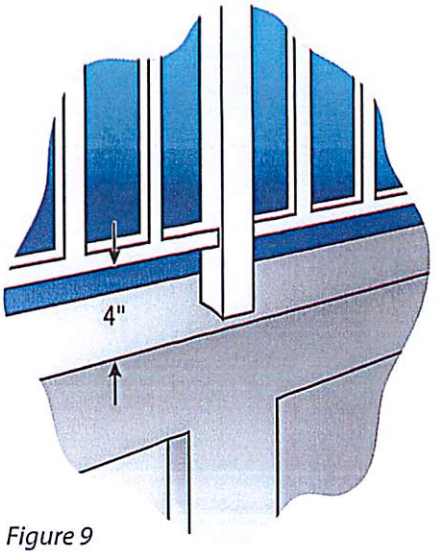


Figure 9

How to Prevent a Child from Getting UNDER a Pool Barrier

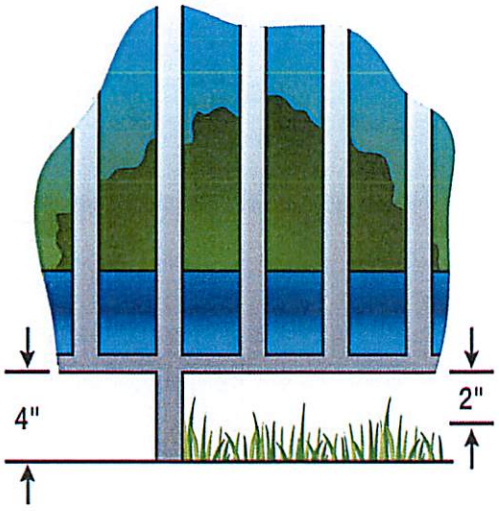


Figure 10

For any pool barrier, the maximum clearance at the bottom of the barrier should not exceed 4 inches above the surface or ground when the measurement is done on the side of the barrier facing away from the pool. Industry recommends that if the bottom of the gate or fence rests on a non-solid surface like grass or gravel, that measurement should not exceed 2 inches.

How to Prevent a Child from Getting THROUGH a Pool Barrier

Preventing a child from getting through a pool barrier can be done by restricting the sizes of openings in a barrier and by using self-closing and self-latching gates.

To prevent a young child from getting through a fence or other barrier, all openings should be small enough so that a 4-inch diameter sphere cannot pass through. This size is based on the head breadth and chest depth of a young child.

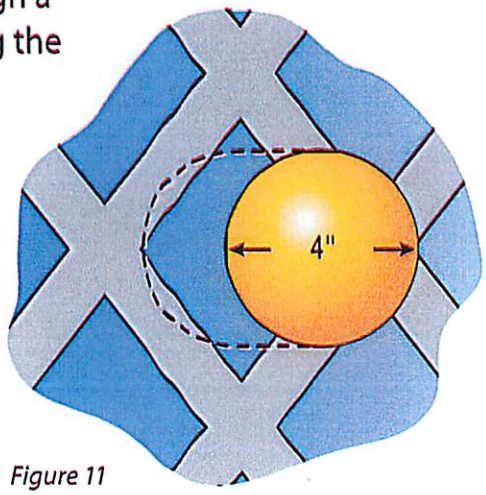
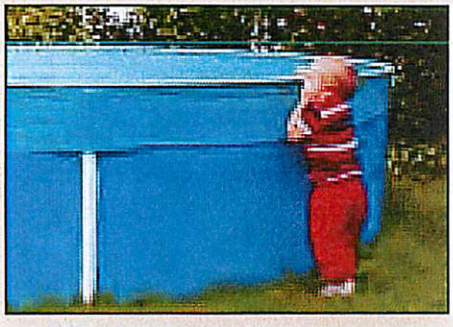


Figure 11

Portable Pools

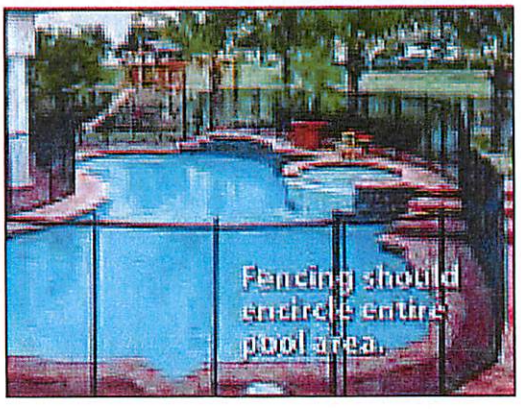


Portable pools are becoming more popular. They vary in size and height, from tiny blow-up pools to larger thousands-of-gallons designs. Portable pools present a real danger to young children.

Never leave children unsupervised around portable pools. It is recommended that portable pools be fenced, covered or emptied and stored away. Instruct neighbors, friends and caregivers about their presence and the potential dangers of a portable pool in your yard.

Removable Mesh Fences

Mesh fences are specifically made for swimming pools or other small bodies of water. Although mesh fences are meant to be removable, the safest mesh pool fences are locked into the deck so that they cannot be removed without the extensive use of tools.

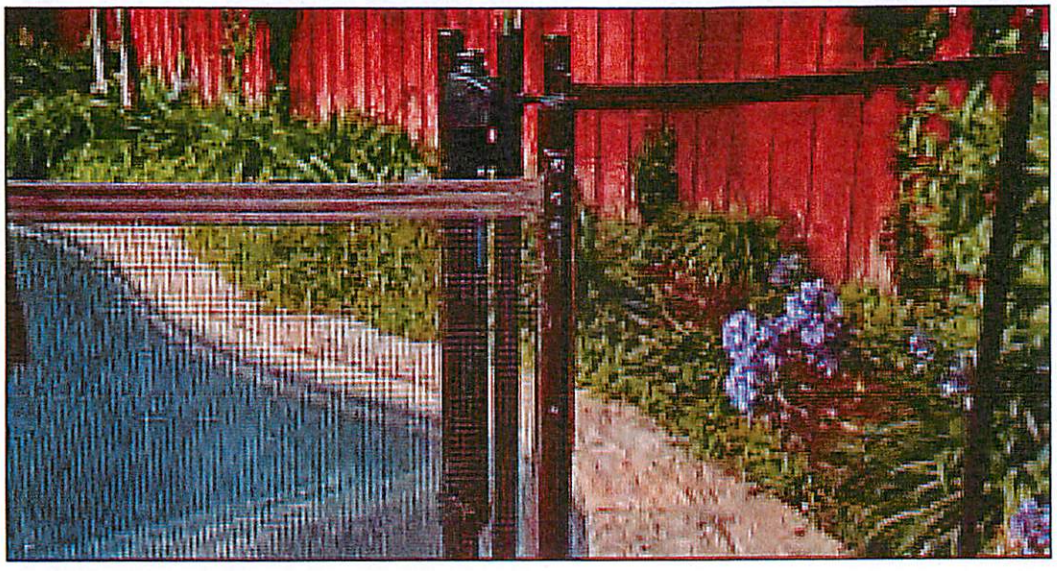


Like other pool fences, mesh fences should be a minimum of 48" in height. The distance between vertical support poles and the attached mesh, along with other manufactured factors, should be designed to hinder a child's ability to climb the fence. The removable vertical support posts should extend a minimum of 3 inches below grade and they should be spaced no greater than 40 inches apart. The bottom of the mesh barrier should not be more than 1 inch above the deck or installed surface.

For more information on Removable Mesh Fencing see ASTM standard F 2286 – 05.

Gates

There are two kinds of gates which might be found on a residential property: pedestrian gates and vehicle or other types of gates. Both can play a part in the design of a swimming pool barrier. All gates should be designed with a locking device.



Pedestrian Gates

These are the gates people walk through. Swimming pool barriers should be equipped with a gate or gates which restrict access to the pool.

Gates should open out from the pool and should be self-closing and self-latching. If a gate is properly designed and not completely latched, a young child pushing on the gate in order to enter the pool area will at least close the gate and may actually engage the latch.

Figure 12

The weak link in the strongest and highest fence is a gate that fails to close and latch completely. For a gate to close completely every time, it must be in proper working order.

When the release mechanism of the self-latching device on the gate is less than 54 inches from the bottom of the gate, the release mechanism for the gate should be at least 3 inches below the top of the gate on the side facing the pool. Placing the release mechanism at this height prevents a young child from reaching over the top of a gate and releasing the latch.

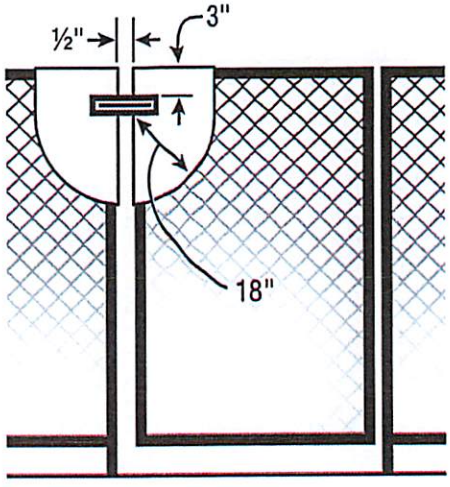


Figure 13

Also, the gate and barrier should have no opening greater than 1/2 inch within 18 inches of the latch release mechanism. This prevents a young child from reaching through the gate and releasing the latch.

All Other Gates (Vehicle Entrances, Etc.)

Other gates should be equipped with self-latching devices. The self-latching devices should be installed as described for pedestrian gates.

When the House Forms Part of the Pool Barrier

In many homes, doors open directly from the house onto the pool area or onto a patio leading to the pool. In such cases, the side of the house leading to the pool is an important part of the pool barrier. Passage through any door from the house to the pool should be controlled by security measures.

The importance of controlling a young child's movement from the house to pool is demonstrated by the statistics obtained in CPSC's submersion reports. Residential locations dominate in incidents involving children younger than 5 accounting for 85% of fatalities and 54 percent of injuries (from *CPSC's 2012 Pool and Spa Submersion Report, see page 3).*

Figure 14

Door Alarms

All doors that allow access to a swimming pool should be equipped with an audible alarm which sounds when the door and/or screen are opened. Alarms should meet the requirements of *UL 2017 General-Purpose Signaling Devices and Systems, Section 77* with the following features:

- Sound lasting for 30 seconds or more within 7 seconds after the door is opened.
- The alarm should be loud: at least 85 dBA (decibels) when measured 10 feet away from the alarm mechanism.
- The alarm sound should be distinct from other sounds in the house, such as the telephone, doorbell and smoke alarm.
- The alarm should have an automatic reset feature to temporarily deactivate the alarm for up to 15 seconds to allow adults to pass through house doors without setting off the alarm. The deactivation switch could be a touchpad (keypad) or a manual switch, and should be located at least 54 inches above the threshold and out of the reach of children.

Self-closing doors with self-latching devices could be used in conjunction with door alarms to safeguard doors which give access to a swimming pool.

Pet or Doggy Doors

Never have a pet or doggy door if the door leads directly to a pool or other backyard water. An isolation barrier or fence is the best defense when pet doors are installed. Remember, pet door openings, often overlooked by adults, provide curious children with an outlet to backyard adventure. Locking these doors is not sufficient and could lead to accidents and tragedies. Children regularly drown in backyard pools, which they were able to access through pet doors. Some municipalities have building codes that prohibit doggy doors in homes with pools unless there is an isolation fence around the pool.

Power Safety Covers

Power safety covers can be installed on pools to serve as security barriers, especially when the house serves as the fourth wall or side of a barrier. Power safety covers should conform to the specifications in the *ASTM F 1346-91 standard*, which specifies safety performance requirements for pool covers to protect young children from drowning.

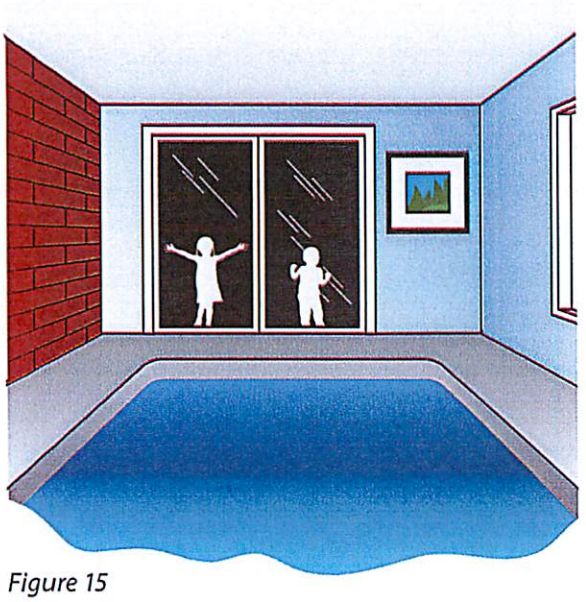


Figure 15

Indoor Pools

When a pool is located completely within a house, the walls that surround the pool should be equipped to serve as pool safety barriers. Measures recommended for using door alarms, pool alarms and covers where a house wall serves as part of a safety barrier also apply for all the walls surrounding an indoor pool.

Barriers for Residential Swimming Pool, Spas, and Hot Tubs

The preceding explanations of CPSC's pool barrier guidelines were provided to make it easier for pool owners, purchasers, builders, technicians, and others to understand and apply the guidelines to their particular properties or situations. Reading the following guidelines in conjunction with the diagrams or figures previously provided may be helpful. For further information, consult your local building department or code authority.

Outdoor Swimming Pools

All outdoor swimming pools, including inground, above ground, or onground pools, hot tubs, or spas, should have a barrier which complies with the following:

1. The **top of the barrier** should be at least 48 inches above the surface measured on the side of the barrier which faces away from the swimming pool (figure 1).
2. The maximum **vertical clearance between the surface and the bottom of the barrier** should be 4 inches measured on the side of the barrier which faces away from the swimming pool. In the case of a non-solid surface, grass or pebbles, the distance should be reduced to 2 inches, and 1 inch for removable mesh fences (figures 1 and 10).
3. Where the top of the **pool structure is above grade or surface**, such as an above ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier should be 4 inches (figure 9).
4. **Openings in the barrier** should not allow passage of a 4-inch diameter sphere (figure 11).
5. **Solid barriers**, which do not have openings, such as a masonry or stone wall, should not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints (figure 2).
6. Where the barrier is composed of **horizontal and vertical members** and the distance between the bottom and top horizontal members is less than 45 inches, the horizontal members should be located on the swimming pool side of the fence (figure 3).
7. **Spacing between vertical members** should not exceed 1¾ inches in width. Where there are decorative cutouts, spacing within the cutouts should not exceed 1¾ inches in width (figure 4).
8. **Maximum mesh size for chain link fences** should not exceed 1¼ inch square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to no more than 1¾ inches (figures 5 and 6).
9. Where the barrier is composed of **diagonal members**, such as a lattice fence, the maximum opening formed by the diagonal members should be no more than 1¾ inches (figure 7).
10. **Access gates** to the pool should be equipped with a locking device. Pedestrian access gates should open outward, away from the pool, and should be self-closing and have a self-latching device (figure 12). Gates other than pedestrian access

gates should have a self-latching device. Where the release mechanism of the **self-latching device** is located less than 54 inches from the bottom of the gate,

(a) the release mechanism should be located on the pool side of the gate at least 3 inches below the top of the gate and

(b) the gate and barrier should have no opening greater than ½ inch within 18 inches of the release mechanism (figure 13).

11. Where a **wall of a dwelling** serves as part of the barrier, one of the following should apply:

    (a) **All doors with direct access to the pool** through that wall should be equipped with **an alarm** which produces an audible warning when the door and its screen, if present, are opened. Alarms should meet the requirements of *UL 2017 General-Purpose Signaling Devices and Systems, Section 77.* For more details on alarms, see page 13.

    (b) The pool should be equipped with a ***power safety cover*** which complies with ASTM F1346-91 listed below.

    (c) Other means of protection, such as **self-closing doors with self-latching devices**, are acceptable so long as the degree of protection afforded is not less than the protection afforded by (a) or (b) described above.

12. 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 ladder or steps (figure 8a), then

    (a) **the ladder** to the pool or steps should be capable of being secured, locked or removed to prevent access (figure 8b), or

    (b) **the ladder or steps should be surrounded by a barrier** (figure 8c). When the ladder or steps are secured, locked, or removed, any opening created should not allow the passage of a 4 inch diameter sphere.

For more information on

Fencing:

- **ASTM F 1908-08** *Standard Guide for Fences for Residential Outdoor Swimming Pools, Hot Tubs, and Spas:* http://www.astm.org/Standards/F1908.htm
- **ASTM F 2286-05** *Standard Design and Performance Specifications for Removable Mesh Fencing for Swimming Pools, Hot Tubs, and Spas:* http://www.astm.org/Standards/F2286.htm

Covers:

- **ASTM F 1346-91** *Standard Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs:* http://www.astm.org/Standards/F1346.htm

Note: ASTM Standards are available for a fee. You may want to contact a pool contractor.

And:

- **ASTM Standards**, contact ASTM online at: http://www.astm.org/CONTACT/index.html
- **UL** (Underwriters Laboratories) Relevant Pool and Spa Standards http://www.ul.com/global/eng/pages/, look for Life Safety and Security Product