

Permit File Checklist

Application Submittal List

| Check-in | Review | |
|----------|--------|---|
| _____ | _____ | Zoning Application, Health Dept. Release Form & Two Sets of Site Plan (<i>must show existing structures, distances to lots lines and location of well and septic.</i>) <i>New construction site plans must be on recorded plats.</i> |
| _____ | _____ | Copy Zoning Permit by Town (<i>if applicable</i>) |
| _____ | _____ | Virginia Contractors License or Owners Affidavit |
| _____ | _____ | Contractors City / County Business License |
| _____ | _____ | Well & Septic Permit or Tap Fee Receipt |
| _____ | _____ | SWM Waiver or In-lieu of Agreement |
| _____ | _____ | E&S Permit or In-lieu of Agreement |
| _____ | _____ | Shrink Swell Soil Test for Site |
| _____ | _____ | VDOT Driveway Permit (<i>if applicable</i>) |
| _____ | _____ | Building Permit Application |
| _____ | _____ | 1 & 2 Family Residential Plan Submittal Guidelines |
| _____ | _____ | Two Sets of Building Plans (<i>New and Existing Work</i>) |
| _____ | _____ | 2 copies U.S. Dept. of Energy, RESCheck (<i>New only</i>) |
| _____ | _____ | 2 copies Brace Wall Calculations (<i>New & Additions</i>) |
| _____ | _____ | Mechanical Permit Affidavit (<i>when applicable</i>) |

Final / Certificate of Occupancy List

| | | |
|-------|-------|--|
| _____ | _____ | All Inspections Completion List |
| _____ | _____ | All Additional or Special Fees Paid |
| _____ | _____ | Sewer Disposal System Operation Permit (County) |
| _____ | _____ | E&S / SWM Office sign-off on site |
| _____ | _____ | Certificate of Occupancy |

_____ _____ **Supervisor Review** **Date** _____

Your application for a permit cannot be reviewed until the missing documents are provided.

Signature: _____ **Date:** _____



DEPARTMENT OF COMMUNITY DEVELOPMENT
ZONING CLEARANCE APPLICATION



APPLICATION NUMBER: _____

FEE: \$25.00

DATE: _____

APPLICANT NAME: _____

CITY OF FRANKLIN: SOUTHAMPTON COUNTY:

ADDRESS: _____

PHONE (HOME): _____ (BUSINESS): _____

EMAIL ADDRESS: _____

PROPERTY ADDRESS: _____ ZONED: _____

CURRENT/PRIOR USE: _____

OWNER (If other than applicant) : _____ PHONE: _____

OWNER ADDRESS: _____

NEW BUSINESS NAME IF APPLICABLE: _____

DESCRIBE PROPOSED USE: (also attach narrative) _____

HEALTH DEPARTMENT APPROVAL NEEDED: YES: NO:

SITE PLAN REQUIRED: YES: NO:

FLOOR PLAN LAYOUT: YES: NO:

IS PROPERTY LOCATED IN THE SPECIAL FLOOD HAZARD AREA? (100 year flood plain) YES: NO:

THE APPLICANT/OWNER IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND/OR FEDERAL PERMITS REGULATING THE USE OF THE PROPERTY. IT IS UNDERSTOOD THAT NO CHANGE IN USE SHALL BE MADE WITHOUT THE APPROVAL OF THE ZONING ADMINISTRATOR.

SIGNED: _____ DATE _____
APPLICANT

OFFICE USE ONLY

APPROVED: CONDITIONAL APPROVAL: DENIED: REASON FOR DENIAL: _____

CONDITIONS: _____

SIGNED: _____ DATE: _____
ZONING OFFICER



ALL SECTIONS MUST BE COMPLETED



Franklin - Southampton Building Permit Application
207 West 2nd Avenue, Franklin, VA 23851, Phone (757)562-8580

Must be accompanied with required construction documents from list on page two.

A permit is hereby requested for the construction, alteration, repair or demolition of a structure located at:
Address _____ Tax Map Number _____

Total Contract Amount, including labor and materials \$ _____
Check all that apply: Building ___ Electrical ___ Plumbing ___ Mechanical ___ Other ___

All contractors must submit a copy of their current Virginia Contractor's License at the time of application.
Contractor's/Tradesman License Number: _____ Class ___ Type _____

Special Zoning Approval Letter from: Boykins ___ Branchville ___ Capron ___ Courtland ___ Ivor ___ Newsoms ___
Copy of VDOT Driveway Permit , if applicable - Yes ___ No ___ (Check the appropriate spaces)

Name, Address, Phone Number, Email Address of Contractor: _____

Name, Address, Phone Number, Email Address of Property Owner: _____

Structure is: New ___ Existing ___ Addition ___
Residential ___ Commercial ___ Industrial ___ HUD Home ___ Modular ___ Other ___

Lien Agent Name, Address, Phone Number _____

Check here if none _____

General Description of Work: _____

This construction to comply with 2009 ___ 2012 ___ (check one) VBC ___ VRC ___ HUD ___

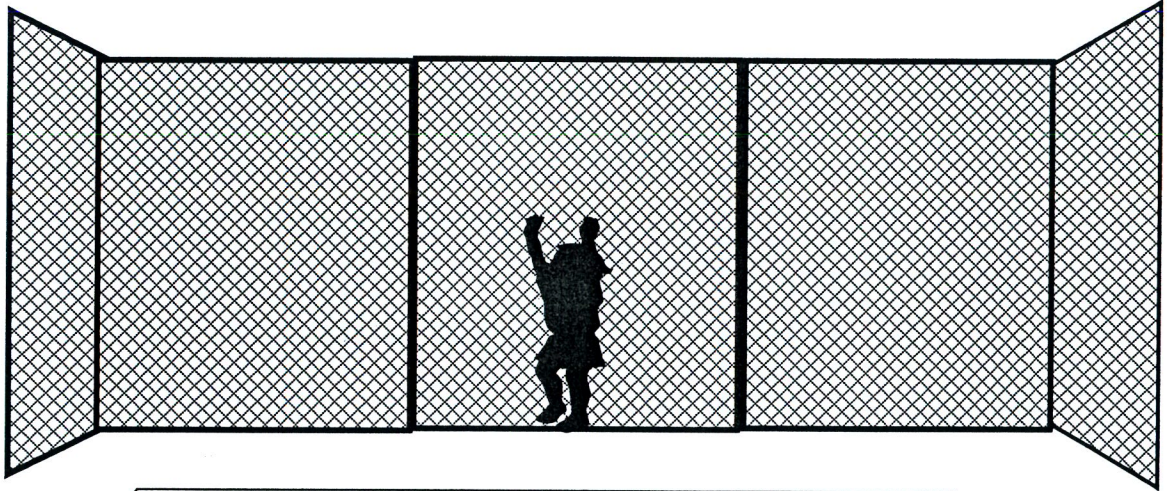
The structure / addition listed herein may not be occupied until such time as the Final Inspection has been passed and/or the Certificate of Occupancy has been issued by this office.

Check one: Owner: ___ Owner Agent: ___ Contractor: ___

Signature _____ Date _____

FOR OFFICE USE ONLY: Application received by: _____ Date: _____

Building Code Guidelines For Home Pools



KEEP YOUR POOL
SAFE



Growth • Community • Spirit

Department of Community Development
Planning-Building Inspections-Zoning

CODE REQUIREMENTS FOR SWIMMING POOLS

Localities in Virginia enforce the regulations established by the Virginia Uniform Statewide Building Code (VUSBC) regarding the installation, use and maintenance of all swimming pools, hot tubs and spas for both private and public residential and commercial pools.

No persons shall begin construction of a swimming pool nor substantially alter or reconstruct any swimming pool without having first submitted construction plans and specification to the local building department for review and approval. No work shall be commenced until having first obtained the required permits for the pool, electrical work, mechanical work and fence or barrier protection as required by the regulations.

It is unlawful for any person to construct, maintain, use, possess or control any swimming pool not properly protected by a permanent fence or barrier in accordance with the regulations regardless of the date of construction. Any person who shall violate any provisions of the regulations may be subject to legal action as allowed by the VUSBC.

PERMITS

A building permit is required for installing all structures intended for swimming, recreational bathing or wading that contains water over 24 inches deep. This includes in-ground, aboveground, and on-ground pools: hot tubs spas and fixed in place wading pools.

Exception: Swimming pools that have a surface area not greater than 150 sq. ft. (approx. 13.8 ft. in diameter), do not exceed 5,000 gallons and are less than 24 inches.

An electrical permit is required for any electrical circuits or electrical work added for the pool and a gas or mechanical permit is required for pool heaters or other mechanical equipment for the pool.

The property owner is responsible for ensuring the pool is properly protected by a fence or barrier meeting code requirements during construction and after completion and approval.

The permit holder is responsible for assuring all inspections have been completed and approved including fence protection prior to using the pool. The following information is required to obtain a permit:

1. A site plan shall be submitted that accurately show the dimensions and construction of the pool to include walks, fence enclosures and proposed distances to lot lines.
2. The wall of a pool shall not encroach on any set back required by the governing zoning ordinance. A wall of a swimming pool shall not be located less than six (6) feet from any side or rear property line or ten (10) feet from any street property line.
3. All appurtenant structures, installations and equipment, such as showers, dressing rooms, equipment houses or other buildings and structures, including plumbing,

electrical and HVAC systems shall comply with all applicable requirements of the code and authority having jurisdiction.

4. The pool shall be equipped to be completely emptied of water, and such discharge water shall be disposed of in an approved manner that will not create a nuisance to any adjoining property.

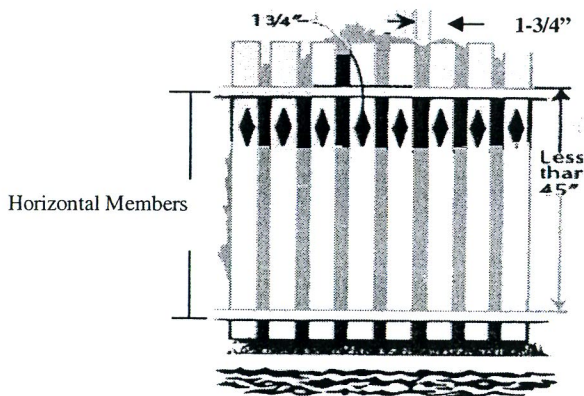
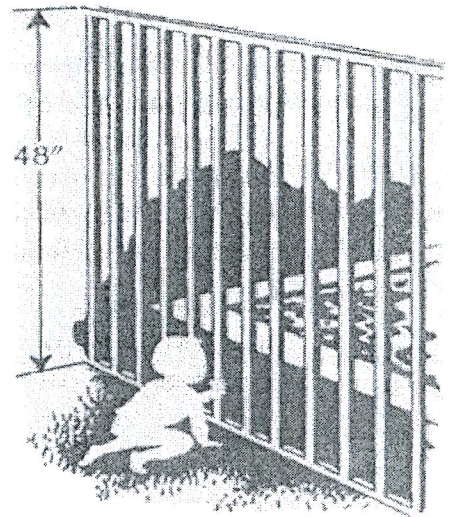
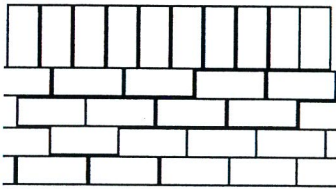
Outdoor private swimming pools, including an in-ground, above-ground or on-ground pools, hot tub or spa shall be provided with a barrier. Access gates for private pools shall be equipped to accommodate a locking device.

Swimming Pool Barrier Guidelines

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. A young child can get over a pool barrier if the barrier is too low or if the barrier has handholds or footholds for the child to use when climbing.

The top of a pool barrier must be at least **48 inches** above grade, measured on the side of the barrier which faces away from the swimming pool.

For a Solid Barrier: no indentations or protrusions shall be present, other than normal construction tolerances and masonry joints.

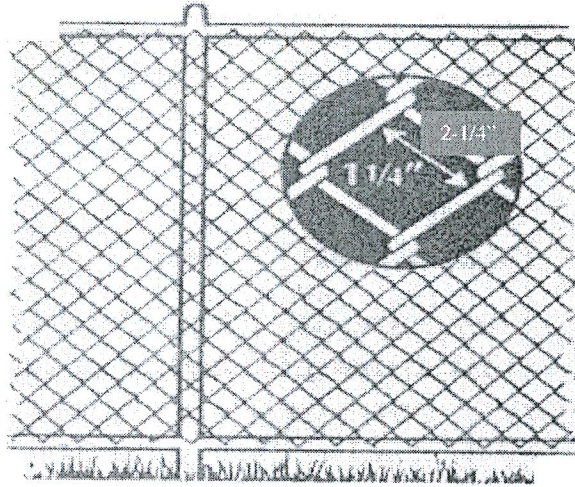
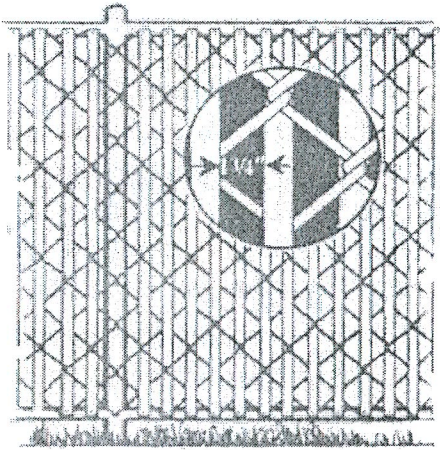
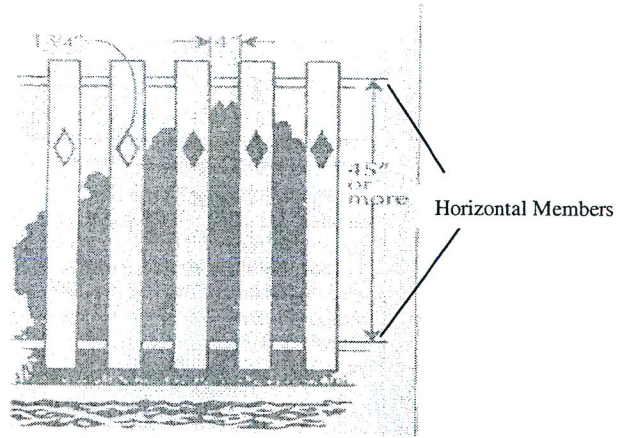


Barriers (Fences) Made Up of Closely Spaced Horizontal Members:

If the distance between the tops of the horizontal members is **less than** 45 inches, the horizontal members shall be on the swimming pool side of the fence. The spacing of the vertical members shall not exceed 1-3/4 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. If there are any decorative cut-outs in the fence, the space within the cutouts shall not exceed 1-3/4".

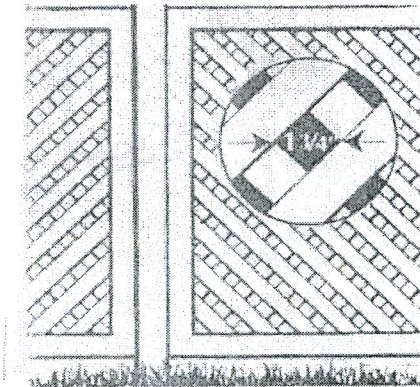
Barriers (Fences) Made Up of Widely Spaced Horizontal Members

If the distance between the tops of horizontal members is **more than** 45 inches, the horizontal members may 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. Again, if there are any decorative cutouts in the fence, the space within the cutouts shall not exceed 1-3/4 inches.



Barriers Made of Chain Link Fence

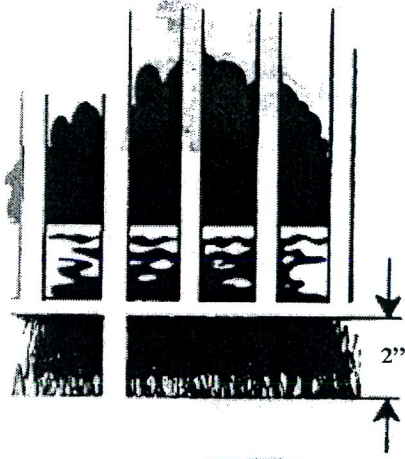
The mesh size shall not exceed 2-1/4 inches square unless slats, fastened at the top or bottom of the fence, are used to reduce mesh openings to no more than 1-3/4 inches.



Barriers Fences Made Up of Diagonal Members (Latticework)

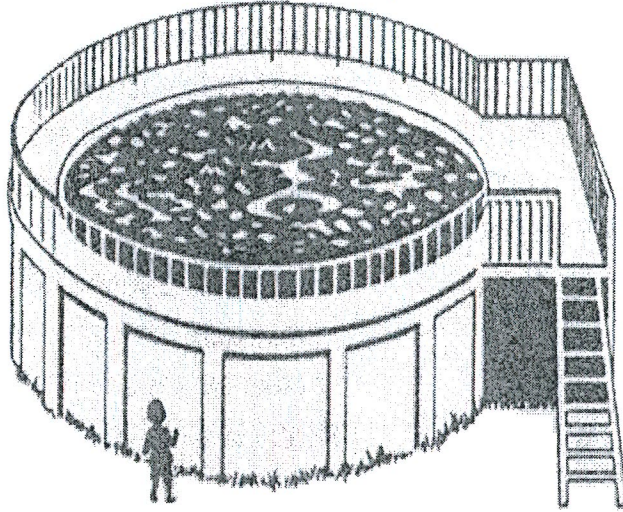
The maximum opening in the lattice should not exceed 1-3/4 inches.

In-ground Pools

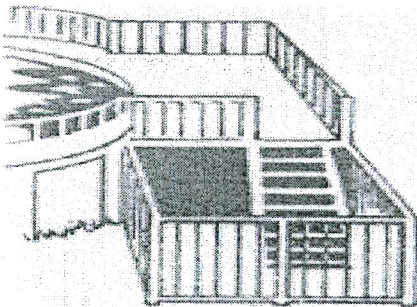
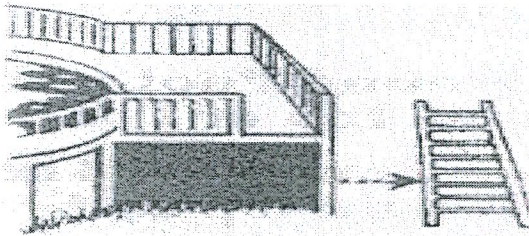


For any pool barrier, the maximum clearance at the bottom of the barrier shall not exceed 2 inches above grade, when the measurement is done on the side of the barrier facing away from the pool.

Above-ground Pools



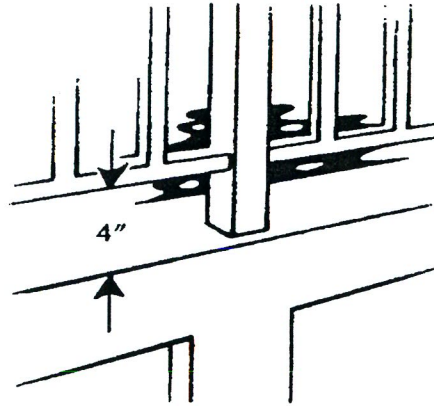
Aboveground pools shall have barriers. The pool structure itself may serve as a barrier fence or a barrier is mounted on top of the pool structure.



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 above.

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 shall not exceed **4 inches**.

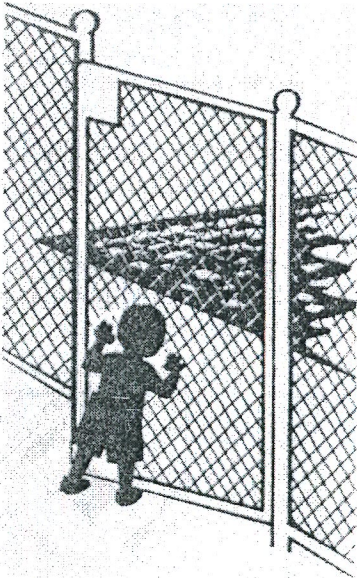


GATES

There are two kinds of gates which might be found on residential property. Both can play a part in the design of a swimming pool barrier.

PEDESTRIAN GATES

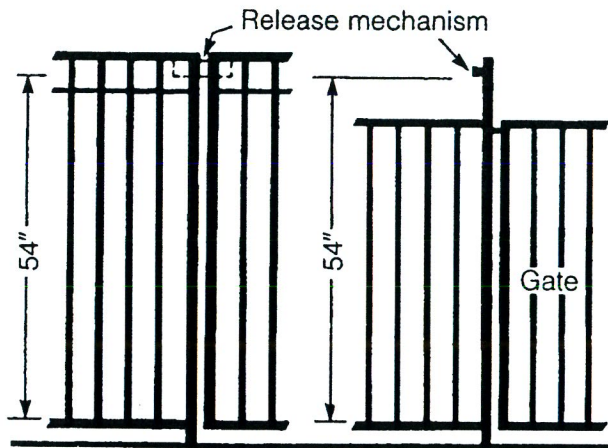
These are the gates people must walk through. Swimming pool barriers should be equipped with a gate or gates which restrict access to the pool. A locking device must be included in the gate design. **Pedestrian gates must open outward and away from the pool and shall be self-closing and self-latching.**



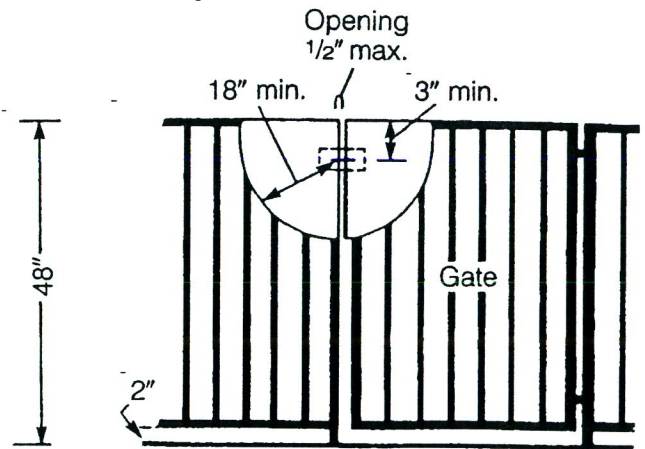
If a gate is properly designed, even if the gate is not completely latched, a young child pushing on the gate in order to enter the pool area will at least close the gate and may actually engage the latch.

Where the release mechanism of the self-latching device is **less than** 54 inches from the bottom of the gate, the release mechanism for the gate shall be located on the pool side of the gate and 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. Gate latches installed in this manner shall have no openings greater than ½ inch with 18 inches of the latch release mechanism. This prevents a young child from reaching through the gate and releasing the latch.



The release mechanism shall be located at 54" or higher from the bottom of the gate.



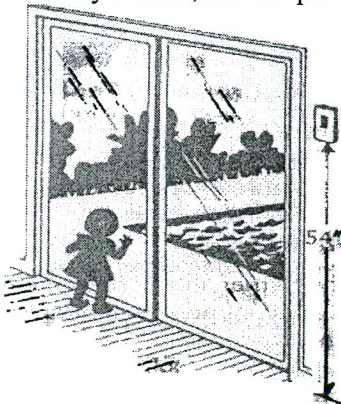
The release mechanism shall be located less than 54" from the bottom of the gate.

ALL OTHER GATES (Vehicle Entrances, ETC.)

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

WHEN THE HOUSE WALL FORMS PART OF THE POOL BARRIER

In many homes, doors open directly onto the pool area or onto a patio which leads to the pool.



In such cases, the wall of the house is an important part of the pool barrier, and passage through any doors in the house wall must be controlled by one of the following security measures.

1) **All doors which give direct access to a swimming pool must be equipped with an audible alarm which sounds when the door and/or screen are opened.** The alarm must sound for 30 seconds or more immediately after the door is opened. The alarm must be capable of being heard throughout the house during normal household activity. (The alarm sound should be distinct from other sounds in the house, such as the telephone, doorbell and smoke alarm.) The alarm must have an automatic reset feature.

Because adults will want to pass through house doors in the pool barrier without setting off the alarm, the alarm must have a switch that allows adults to temporarily deactivate the alarm for up to a maximum of 15 seconds. The deactivation switch could be a touchpad (keypad) or a manual switch, and must be located at least 54 inches above the threshold of the door covered by the alarm.

2) Pools equipped with a powered safety cover which complies with ASTM F1346 or

3) Other means of protection approved by the building official.

APPENDIX G

SWIMMING POOLS, SPAS AND HOT TUBS

SECTION AG101 GENERAL

AG101.1 General. The provisions of this appendix shall control the design and construction of swimming pools, spas and hot tubs installed in or on the *lot* of a one- or two-family dwelling.

AG101.2 Pools in flood hazard areas. Pools that are located in flood hazard areas established by Table R301.2(1), including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, shall comply with Sections AG101.2.1 or AG101.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

AG101.2.1 Pools located in designated floodways. Where pools are located in designated floodways, documentation shall be submitted to the *building official*, which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the *jurisdiction*.

AG101.2.2 Pools located where floodways have not been designated. Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the *jurisdiction*.

SECTION AG102 DEFINITIONS

AG102.1 General. For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool."

BARRIER. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See "Swimming pool."

IN-GROUND POOL. See "Swimming pool."

RESIDENTIAL. That which is situated on the premises of a detached one- or two-family dwelling or a one-family *townhouse* not more than three stories in height.

SPA, NONPORTABLE. See "Swimming pool."

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating *equipment* are an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water over 24 inches (610

mm) deep. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

SWIMMING POOL, INDOOR. A swimming pool which is totally contained within a structure and surrounded on all four sides by the walls of the enclosing structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

SECTION AG103 SWIMMING POOLS

AG103.1 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG108.

AG103.2 Above-ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-4 as listed in Section AG108.

AG103.3 Pools in flood hazard areas. In flood hazard areas established by Table R301.2(1), pools in coastal high hazard areas shall be designed and constructed in conformance with ASCE 24.

SECTION AG104 SPAS AND HOT TUBS

AG104.1 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Section AG108.

AG104.2 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-6 as listed in Section AG108.

SECTION AG105 BARRIER REQUIREMENTS

AG105.1 Application. The provisions of this chapter shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

AG105.2 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be surrounded by a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches (1219 mm) above *grade* measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of

- the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, 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 shall be 4 inches (102 mm).
2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
 3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
 4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed $1\frac{3}{4}$ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1\frac{3}{4}$ inches (44 mm) in width.
 5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1\frac{3}{4}$ inches (44 mm) in width.
 6. Maximum mesh size for chain link fences shall be a $2\frac{1}{4}$ -inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than $1\frac{3}{4}$ inches (44 mm).
 7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than $1\frac{3}{4}$ inches (44 mm).
 8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - 8.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate; and
 - 8.2. The gate and barrier shall have no opening larger than $\frac{1}{2}$ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
 9. Where a wall of a *dwelling* serves as part of the barrier, one of the following conditions shall be met:
 - 9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346; or
 - 9.2. 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/or its screen, if present, are opened. The alarm shall be listed and *labeled* in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or
 - 9.3. Other means of protection, such as self-closing doors with self-latching devices, which are *approved* by the governing body, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described above.
 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 ladder or steps:
 - 10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access; or
 - 10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, Items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

AG105.3 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited locations. Barriers shall be located to prohibit permanent structures, *equipment* or similar objects from being used to climb them.

AG105.5 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

SECTION AG106 ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

AG106.1 General. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.

E4204.2 Bonded parts. The parts of pools, spas, and hot tubs specified in Items 1 through 7 shall be bonded together using insulated, covered or bare solid copper conductors not smaller than 8 AWG or using rigid metal conduit of brass or other identified corrosion-resistant metal. An 8 AWG or larger solid copper bonding conductor provided to reduce voltage gradients in the pool, spa, or hot tub area shall not be required to be extended or attached to remote panelboards, service equipment, or electrodes. Connections shall be made by exothermic welding or by listed pressure connectors or clamps that are labeled as being suitable for the purpose and that are made of stainless steel, brass, copper or copper alloy. Connection devices or fittings that depend solely on solder shall not be used. Sheet metal screws shall not be used to connect bonding conductors or connection devices:

1. Conductive pool shells. Bonding to conductive pool shells shall be provided as specified in Item 1.1 or 1.2. Poured concrete, pneumatically applied or sprayed concrete, and concrete block with painted or plastered coatings shall be considered to be conductive materials because of their water permeability and porosity. Vinyl liners and fiberglass composite shells shall be considered to be nonconductive materials.

1.1. Structural Reinforcing Steel. Unencapsulated structural reinforcing steel shall be bonded together by steel tie wires or the equivalent. Where structural reinforcing steel is encapsulated in a nonconductive compound, a copper conductor grid shall be installed in accordance with Item 1.2.

1.2. Copper Conductor Grid. A copper conductor grid shall be provided and shall comply with Items 1.2.1 through 1.2.4:

1.2.1. It shall be constructed of minimum 8 AWG bare solid copper conductors bonded to each other at all points of crossing.

1.2.2. It shall conform to the contour of the pool and the pool deck.

1.2.3. It shall be arranged in a 12 inch (305 mm) by 12 inch (305 mm) network of conductors in a uniformly spaced perpendicular grid pattern with a tolerance of 4 inches (102 mm).

1.2.4. It shall be secured within or under the pool not more than 6 inches (152 mm) from the outer contour of the pool shell.

2. Perimeter surfaces. The perimeter surface shall extend for 3 feet (914 mm) horizontally beyond the inside walls of the pool and shall include unpaved surfaces, poured concrete and other types of paving. Bonding to perimeter surfaces shall be provided as specified in Item 2.1 or 2.2 and shall be attached to the pool, spa, or hot tub reinforcing steel or copper conductor grid at a minimum of four points uniformly spaced around the perimeter of the

pool, spa, or hot tub. For nonconductive pool shells, bonding at four points shall not be required.

2.1. Structural Reinforcing Steel. Structural reinforcing steel shall be bonded in accordance with Item 1.1.

2.2. Alternate Means. Where structural reinforcing steel is not available or is encapsulated in a nonconductive compound, a copper conductor(s) shall be used in accordance with Items 2.2.1 through 2.2.5:

2.2.1. At least one minimum 8 AWG bare solid copper conductor shall be provided.

2.2.2. The conductors shall follow the contour of the perimeter surface.

2.2.3. Splices shall be listed.

2.2.4. The required conductor shall be 18 to 24 inches (457 to 610 mm) from the inside walls of the pool.

2.2.5. The required conductor shall be secured within or under the perimeter surface 4 to 6 inches (102 mm to 152 mm) below the subgrade.

3. Metallic components. All metallic parts of the pool structure, including reinforcing metal not addressed in Item 1.1, shall be bonded. Where reinforcing steel is encapsulated with a nonconductive compound, the reinforcing steel shall not be required to be bonded.

4. Underwater lighting. All metal forming shells and mounting brackets of no-niche luminaires shall be bonded.

Exception: Listed low-voltage lighting systems with nonmetallic forming shells shall not require bonding.

5. Metal fittings. All metal fittings within or attached to the pool structure shall be bonded. Isolated parts that are not over 4 inches (102 mm) in any dimension and do not penetrate into the pool structure more than 1 inch (25.4 mm) shall not require bonding.

6. Electrical equipment. Metal parts of electrical equipment associated with the pool water circulating system, including pump motors and metal parts of equipment associated with pool covers, including electric motors, shall be bonded.

Exception: Metal parts of listed equipment incorporating an approved system of double insulation shall not be bonded.

6.1. Double-Insulated Water Pump Motors. Where a double-insulated water pump motor is installed under the provisions of this item, a solid 8 AWG copper conductor of sufficient length to make a bonding connection to a replacement motor shall be extended from the bonding grid to an accessible point in the vicinity of the pool pump motor.

Where there is no connection between the swimming pool bonding grid and the equipment grounding system for the premises, this bonding conductor shall be connected to the equipment grounding conductor of the motor circuit.

- 6.2. Pool Water Heaters. For pool water heaters rated at more than 50 amperes and having specific instructions regarding bonding and grounding, only those parts designated to be bonded shall be bonded and only those parts designated to be grounded shall be grounded.
7. Metal wiring methods and equipment. Metal-sheathed cables and raceways, metal piping, and all fixed metal parts shall be bonded.

Exceptions:

1. Those separated from the pool by a permanent barrier shall not be required to be bonded.
2. Those greater than 5 feet (1524 mm) horizontally from the inside walls of the pool shall not be required to be bonded.
3. Those greater than 12 feet (3658 mm) measured vertically above the maximum water level of the pool, or as measured vertically above any observation stands, towers, or platforms, or any diving structures, shall not be required to be bonded.

E4204.3 Pool water. The pool water shall be intentionally bonded by means of a conductive surface area not less than 9 square inches (5806 mm²) installed in contact with the pool water. This bond shall be permitted to consist of parts that are required to be bonded in Section E4204.2.

E4204.4 Bonding of outdoor hot tubs and spas. Outdoor hot tubs and spas shall comply with the bonding requirements of Sections E4204.1 through E4204.3. Bonding by metal-to-metal mounting on a common frame or base shall be permitted. The metal bands or hoops used to secure wooden staves shall not be required to be bonded as required in Section E4204.2.

E4204.5 Bonding of indoor hot tubs and spas. The following parts of indoor hot tubs and spas shall be bonded together:

1. All metal fittings within or attached to the hot tub or spa structure.
2. Metal parts of electrical equipment associated with the hot tub or spa water circulating system, including pump motors.
3. Metal raceway and metal piping that are within 5 feet (1524 mm) of the inside walls of the hot tub or spa and that are not separated from the spa or hot tub by a permanent barrier.
4. All metal surfaces that are within 5 feet (1524 mm) of the inside walls of the hot tub or spa and that are not separated from the hot tub or spa area by a permanent barrier.

Exceptions:

1. Small conductive surfaces not likely to become energized, such as air and water jets and drain fittings, where not connected to metallic piping,

towel bars, mirror frames, and similar nonelectrical equipment, shall not be required to be bonded.

2. Metal parts of electrical equipment associated with the water circulating system, including pump motors that are part of a listed self-contained hot tub or spa.
5. Electrical devices and controls that are not associated with the hot tubs or spas and that are located less than 5 feet (1524 mm) from such units.

E4204.5.1 Methods. All metal parts associated with the hot tub or spa shall be bonded by any of the following methods:

1. The interconnection of threaded metal piping and fittings.
2. Metal-to-metal mounting on a common frame or base
3. The provision of an insulated, covered or bare solid copper bonding jumper not smaller than 8 AWG. It shall not be the intent to require that the 8 AWG or larger solid copper bonding conductor be extended or attached to any remote panelboard, service equipment, or any electrode, but only that it shall be employed to eliminate voltage gradients in the hot tub or spa area as prescribed.

E4204.5.2 Connections. Connections shall be made by exothermic welding or by listed pressure connectors or clamps that are labeled as being suitable for the purpose and that are made of stainless steel, brass, copper or copper alloy. Connection devices or fittings that depend solely on solder shall not be used. Sheet metal screws shall not be used to connect bonding conductors or connection devices.

**SECTION E4205
GROUNDING**

E4205.1 Equipment to be grounded. The following equipment shall be grounded:

1. Through-wall lighting assemblies and underwater luminaires other than those low-voltage lighting products listed for the application without a grounding conductor.
2. All electrical equipment located within 5 feet (1524 mm) of the inside wall of the pool, spa or hot tub.
3. All electrical equipment associated with the recirculating system of the pool, spa or hot tub.
4. Junction boxes.
5. Transformer enclosures.
6. Ground-fault circuit-interrupters.
7. Panelboards that are not part of the service equipment and that supply any electrical equipment associated with the pool, spa or hot tub.

E4205.2 Luminaires and related equipment. Through-wall lighting assemblies, wet-niche, dry-niche, or no-niche luminaires shall be connected to an insulated copper equipment grounding conductor sized in accordance with Table

**DEPARTMENT OF COMMUNITY DEVELOPMENT
BUREAU OF INSPECTIONS
PLANNING
ZONING**



**SAFETY DEVICES FOR SWIMMING POOLS
HOMEOWNERS AFFIDAVIT**

Definition: *Any structure for swimming, recreational bathing, or wading that contains water over 24 inches deep. This includes in-ground, above-ground and on-ground pools; hot tubs, spas and fixed in place wading pools.*

I, _____, of _____, affirm that I am the owner of a lot or parcel of land located at _____, in the City of Franklin and that I have or my licensed pool contractor has applied for a building permit to erect a residential swimming pool as defined above on said property. I affirm that I am aware of the provisions of the Virginia Uniform Statewide Building Code which requires me to erect and maintain an adequate enclosure surrounding the pool area in accordance with Section 3109.1 of the Virginia Uniform Statewide Building Code, 2003 edition (attached). I also affirm that I will insure that the required swimming pool enclosure and safety devices will be installed and inspected by this office prior to operation of the swimming pool.

Please understand the necessity of these regulations as they pertain to life safety and that this office will be strictly enforcing such requirements to the fullest extent.

(Affiant)

Signed and acknowledged by _____ in the City of Franklin, Virginia, on the _____ day of _____, in the presence of the undersigned witness.

(Witness)