



CITY OF FORT PIERCE
Department of Building & Code Enforcement
100 N. US 1, Ft. Pierce, Florida 34950
Phone (772) 460-2200 Fax (772) 467-9836

Swimming Pool Requirements Form

The Swimming Pool you contracted to have built at _____,
Address

Tax ID: _____, must be equipped with an approved enclosure or barrier.

Although it is the responsibility of the pool contractor to install this required enclosure of barrier, it is the homeowner's responsibility to maintain and keep the system in working condition.

The purpose of this requirement is to protect the life and safety of your family and others who may use your swimming pool. Any removal, disconnection or inactivation of the system may result in serious injury or death.

Pool Enclosure/Barrier (See specifications form)

A pool enclosure meeting the requirements of section 424 of the 2004 edition of the Florida Building Code (FBC), must be provided prior to final inspection and before a certificate of completion can be issued. This enclosure will require a permit.

This form along with the following required documents, must be submitted with all swimming pool permit applications:

- 1. Residential Swimming Pool Safety Act Form.
- 2. Survey/Site Plan, indicating all setbacks, structures, doors and windows on dwelling, and electrical equipment (including new and existing lights, receptacles, pool equipment, overhead utilities, etc.)
- 3. Signed and sealed pool construction plans.
- 4. Application, plans and documents for fence, barrier, and/or screen enclosure.
- 5. Pool plan review check list.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws.

Owner Name - Please Print

Owner's Signature

State of Florida

County of _____

The foregoing instrument was acknowledged before me this _____ day of _____, 2000____, by _____ who is personally known to me or who has produced _____ as identification.

Signature of Notary

Commission Number

(Seal)



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**RESIDENTIAL SWIMMING POOL
SAFETY ACT FORM
Florida Building Code (FBC) 2004**

Property Owner: _____

Address: _____

Tax ID: _____

Swimming Pool Contractor _____

The following is from Florida Statutes Chapter 515, and Florida Building Code (FBC) 2001. Please check your choice of compliance.

Residential swimming pool safety feature options; penalties.

(1) In order to pass final inspection and receive a certificate of completion, a residential swimming pool must meet the following requirements relating to pool safety features:

- (a) The pool must be equipped with an approved safety pool cover; 424.2.17 exception. No other barrier feature required.
- (b) The pool must be isolated from access to a home by an enclosure that meets the pool barrier requirements of section 424.2.17.1 - 424.2.17.3.
- (c) Where a wall of a dwelling serves as part of the barrier one (2) of the following shall apply: 424.2.17.1.9
 1. All doors and windows providing direct access from the home to the pool shall be equipped with an exit alarm complying with UL 2017 that has a minimum sound pressure rating of 85 dBA at 10 feet and is either hard-wired or of the plug-in type. The exit alarm shall produce a continuous audible warning when the door and its screen are opened. The alarm shall sound immediately after the door is opened and be capable of being heard throughout the house during normal household activities. The alarm shall be equipped with a manual means to temporarily deactivate the alarm for a single opening. Such deactivation shall last no more than 15 seconds. The deactivation switch shall be located at least 54 inches above the threshold of the door.

Exceptions:

- a. Screened or protected windows having a bottom sill height of 48 inches or more measured from the interior finished floor at the pool access level.
- b. Windows facing the pool on floor above the first story.

- c. Screened or protected pass-through kitchen windows 42 inches or higher with a counter beneath. 424.2.17.1.9(1).
- 2. All doors providing direct access from the home to the pool must be equipped with a self-closing, self-latching device with positive mechanical latching/locking installed a minimum of 54 inches above the threshold, which is approved by the authority having jurisdiction. 424.2.17.1.9(2)

(2) A person who fails to equip a new residential swimming pool with at least one pool safety feature as required commits a misdemeanor of the second degree, punishable as provided in s. 775.082 of s. 775.083, except that no penalty shall be imposed if the person, within 45 days after arrest or issuance of a summons or a notice to appear, has equipped the pool with at least one safety feature as required in subsection (1) and has attended a drowning prevention education program established by s. 515.31. However, the requirement of attending a drowning prevention education program is waived if such program is not offered within 45 days after issuance of the citation.

Many types/models of alarms are not acceptable. Please check with the Building Department.

An alarm that floats in the pool is not acceptable.

Owner's Affidavit: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws.

Owner Name - Please print

Owner's Signature

State of Florida

County of _____

The foregoing instrument was acknowledged before me this _____ day of _____, 200____, by _____ who is personally known to me or who has produced _____ as identification.

Signature of Notary

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POOL ENCLOSURE/BARRIER SPECIFICATIONS

Swimming pool must comply with the 2004 Florida Building Code (FBC). The requirements for the enclosure or barrier are:

424.2.17 Residential Swimming pool barrier requirement. Residential swimming pools shall comply with 424.2.17.1 through 424.2.17.3.

Exception:

A swimming pool with an approved safety pool cover, complying with ASTM F 1346-91.

424.2.17.1 Outdoor Swimming Pools. Outdoor swimming pools shall be provided with a barrier complying with 424.2.17.1 through 424.2.17.14.

424.2.17.1.1 The top of the barrier shall be at least 48 inches 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 measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade the barrier may be at ground level 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.

424.2.17.1.2 The barrier may not have any gaps, openings, indentations, protrusions, or structural components that could allow a young child to crawl under, squeeze through, or climb over the barrier as herein described below. One end of the barrier shall not be removable without the aid of tools. Openings in the barrier shall not allow passage of a 4-inch diameter sphere.

424.2.17.1.3 Solid barriers which do not have openings shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.

424.2.17.1.4 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, the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1-3/4 inches in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1-/34 inches in width.

424.2.17.1.5 Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches or more, spacing between vertical members shall not exceed 4 inches. Where there are decorative cutouts within vertical member, spacing within the cutouts shall not exceed 1-3/4 inches in width.

424.2.17.1.6 Maximum mesh size for chain link fences shall be a 2-1/4 inch square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to no more than 1-3/4 inches.

424.2.17.1.7 Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall be not more than 1-3/4 inches

424.2.17.1.8 Access gates, when provided, shall comply with the requirements of 424.2.17.1.1 through 424.2.17.1.7 and shall be equipped with the self-latching locking device located on the pool side of the gate and so placed that it cannot be reached by a young child over the top or through any opening or gap. Gates that provide access to the swimming pool must open outward away from the pool. The gates and barrier shall have no opening greater than 1/2 inch within 18 inches of the release mechanism.

424.2.17.1.9 Where a wall of a dwelling serves as part of the barrier, one of the following shall apply:

1. All doors and windows providing direct access from the home to the pool shall be equipped with an exit alarm complying with UL 2017 that has a minimum sound pressure rating of 85 dBA at 10 feet and is either hard-wired or of the plug-in type. The exit alarm shall produce a continuous audible warning when the door and its screen are opened. The alarm shall sound immediately after the door is opened and be capable of being heard throughout the house during normal household activities. The alarm shall be equipped with a manual means to temporarily deactivate the alarm for a single opening. Such deactivation shall last no more that 15 seconds. The deactivation switch shall be located at least 54 inches above the threshold of the door.

Exceptions:

- a. Screened or protected windows having a bottom sell height of 48 inches or more measured from the interior finished floor at the pool access level.

- b. Windows facing the pool on floor above the first story.

- c. Screened or protected pass-through kitchen windows 42 inches or higher with a counter beneath.

2. All doors providing direct access from the home to the pool must be equipped with a self-closing, self-latching device with positive mechanical latching/locking installed a minimum of 54 inches above the threshold, which is approved by the authority having jurisdiction.

424.2.17.1.10 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, the

ladder or steps either shall be capable of being secured, locked or removed to prevent access, or the ladder or steps shall be surrounded by a barrier which meets the requirements of 424.2.17.1.1 through 424.2.17.1.9 and 424.2.17.1.12 through 424.2.17.1.14. when the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4 inch diameter sphere.

424.2.17.1.11 Standard screen enclosures which meet the requirements of section 424.2.17 may be utilized as part or all of the "barrier" and shall be considered a "non-dwelling" wall. One end of the barrier shall not be removable without the aid of tools.

424.2.17.1.12 The barrier must be placed around the perimeter of the pool and must be separate from any fence, wall, or other enclosure surrounding the yard unless the fence, wall, or other enclosure or portion thereof is situated on the perimeter of the pool, is being used as part of the barrier, and meets the barrier requirements of this section.

424.2.17.1.13 The barrier must be placed sufficiently away from the water's edge to prevent a young child or medically frail elderly person who may manage to penetrate the barrier from immediately falling into the water. Sufficiently away from the water's edge shall mean no less than 20 inches from the barrier to the water's edge. Dwelling or non-dwelling walls, when used as part or all of the "barrier" and meeting the other barrier requirements, may be close to the water's edge as permitted by this code.

424.2.17.1.14 A wall of a dwelling may serve as part of the barrier if it does not contain any door or window that opens to provide direct access from the home to the swimming pool.

424.2.17.2 Indoor swimming pools. All walls surrounding indoor swimming pools shall comply with 424.2.17.1.9.

424.2.17.3 Prohibited locations. A barrier may not be located in a way that allow any permanent structure, equipment, or window that opens to provide access from the home to the swimming pool.

DEFINITION: Pool Perimeter - A pool perimeter is defined by the limits of the pool deck and any dwelling or non-dwelling wall or any combination thereof which completely surrounds the pool.



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FLORIDA BUILDING CODE SWIMMING POOL
CONTRACTOR PLAN REVIEW CHECK LIST

Please check each item which applies or note each item not applicable (N/A)

Provide a Plot Plan to include pool size, patio size. Indicate the location of overhead electric line. Indicate the setbacks.

- Provide the pool dimensions, volume in gallons and surface area (sq ft).
- Provide a specific pool profile showing the depth and slope. Detail compliance with ANSI/NSPI-5-95.
- Provide the Typical Pool wall section. Indicate when in the angle of repose.
- Provide an angle of repose detail when required.
- Provide partial dwelling floor plan that indicates all doors and windows with direct access to the pool.
Provide the pump motor make, model and capacity (horsepower). Detail compliance with FBC 424.2.20
- Water velocity maximum 10 ft/s except copper tubing maximum 8 ft/s. Section 424.2.6.3
- Turnover rate - equipment sizing minimum turnover of pool water at least once every twelve (12) hours.
- Provide the piping diagram. Detail compliance with FBC 424.2.6 through 424.2.11.
 - A. Suction inlet covers must comply with ANSI/ASME A112.19.8M, "Suction fittings for use in swimming pools, spas, hot tubs, and whirlpool bathtub appliances".
 - B. Vacuum cleaner system with isolation valves must have protected inlets by either an approved antivortex cover, 12"x12" grate or larger, or other approved means.
 - C. Back up system when grate covers are missing alternative vacuum relief devices shall include either:
 - 1. Approved vacuum release system
 - 2. Approved vent piping

3. Other approved devices or means

Provide engineering specific statement that distance from pump and "T" will cause system to react within the three (3) second required time frame.

D. Minimum two (2) suction inlets per pump. Minimum three (3) feet separation, or located on two (2) different planes. These suction inlets shall be plumbed such that water is drawn through them simultaneously through a common line to the pump.

E. Vacuum or pressure cleaner fitting(s) must be accessible at least six (6) inches and not greater than twelve (12) inches below the minimum operating water level or as an attachment to the skimmer(s)

PUMPS 424.2.7

A. Strainer on inlet side

B. Must be mounted on a substantial base

C. Capacity following heads

1. Pressure diatomaceous earth - at least sixty (60) ft

2. Vacuum diatomaceous earth - twenty (20) inch vacuum on the suction side and forty (40) ft total head.

3. Rapid sand - at least forty-five (45) ft

4. High rate sand - at least sixty (60) ft

D. Must provide a pressure or vacuum gauge

VALVES 424.2.8

A. When under concrete slab must be located in a pit minimum five (5) pipe diameters minimum of ten (10) inches with cover

B. Full-way (gate) valves - When below overflow rim of pool a valve must be installed on discharge outlet and suction line.

C. Check valves must be of the swing or vertical check patterns.

WATER SUPPLY 424.2.9

A. Must have backflow

B. No over the rim fill spout unless under diving board or guarded.

TESTS 424.2.12

A. All pool piping shall be inspected

1. Static water or air pressure no less than 35 PSI for 15 minutes

B. Drain and waste piping

1. Fill to overflow

WATER HEATING EQUIPMENT 424.2.14

A. Labeled equipment

B. Water retention - must provide positive means of retaining water in the heater when pump is not in operation.

C. Relief valve - closed system must have pressure relief valve on discharge side.

D. Florida Energy Code - Section 612.1.ABC.2.3

1. On-off switch required

2. Cover required designed to minimize heat loss

3. Time clocks - run during off-peak electric demand periods.

Provide pool barrier. Detail compliance with FBC 424.2.17.3 and ANSI/NSPI-55. (See pool barrier form)

Show the stairs, ladders and swim outs. Detail compliance with FBC

424.2.18 and ANSI/NSPI-5-95.

- LADDER AND STEPS
 - A. Water depth more than 24 inches must have ladder or steps (max step rise 12")
 - B. More than 5 foot depth must have ladders, stairs or underwater benches/swimouts in deep end.
 - C. If diving equipment is used swimout must be recessed or located in the corner.
- Show the ladder and handrail. Detail electric bonding and compliance to 1999 NEC 680.
- SKIMMERS 424.2.21.2
 - A. Surface skimmers are required
 - B. One (1) per 1000 sq. ft. of surface area
 - C. Minimum flow rate 25 GPM per skimmer.
- MAIN OUTLET 424.2.21.3
 - A. One (1) must be installed at the deepest point
- HYDROSTATIC RELIEF DEVICE 424.2.21.4
 - In areas of anticipated water table, an approved hydrostatic relief device shall be installed
- INLET FITTINGS 424.2.21.5
 - A. One (1) per 15,000 gallons
 - B. Where more than one (1) is required must be a minimum of 10 ft. separation.
- Show the slide. Detail electric bonding and compliance to Manufacturer's Specifications, FBC 424.2.5.2 and ANSI/NSPI-5-95.
- Show the diving board. Detail electric bonding and compliance to Manufacturer's Specifications, FBC 424.2.5.2 and ANSI/NSPI-5-95.
- Show the location of hand holds when required. Detail compliance to Manufacturer's Specifications, FBC 424.2.5.2 and ANSI/NSPI-5-95.
- Provide an Electric diagram.
- Provide a GFI outlet, located per 1999 NEC 680.
- Indicate equipment location.
- EQUIPMENT FOUNDATION AND ENCLOSURES
 - A. Must be on one (1) concrete base or slab
 - B. All heating and electrical equipment must be protected from the weather.
- Temporary construction fencing must be installed during construction. Section FBC 1803.1.1 and F.S. 553.60 Trench Safety Act
- Pool plans must be signed and sealed by an architect or engineer licensed in Florida.
- FINAL INSPECTION 424.2.19
 - Must be completed and filled with water.