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# Standard Drawings and Applications For Residential Swimming Pools

From the Kentucky Residential Code  
As enforced by Planning and Development Services

## **Safety Regulations for Swimming Pools, Spas and Hot Tubs**

Per 2013 Kentucky Residential Code Supplement

**AG101.1** 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.

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

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

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

**Swimming pool.** Any structure intended for swimming or recreational bathing that contains water more than 24 inches 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 in-door pool.

**AG103.1 In-ground pools.** In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5

### **Barrier Requirements**

**AG 105.1** The provisions of this appendix 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.

**AG 105.2** An outdoor swimming pool, including an in-ground, above-ground or on-ground swimming pool, hot tub or spa shall be surrounded by a barrier which shall comply with the following:

- 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, 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.

*See illustrations on pages 3 and 4 for more requirements regarding pool barriers and access gates.*

**AG 105.2 Item 9** Where a wall of a dwelling serves as part of the barrier one of the following conditions shall be met:

- The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346
- 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 above the threshold of the door; or
- 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 the items described above.

**AG 105.5 Barrier Exceptions.** Spas or hot tubs with a safety cover which comply with ASTM F 1346 shall be exempt from the provisions of this appendix.

### **Entrapment Protection for Swimming Pool and Spa Suction Outlets**

**AG 106.1 General.** Suction outlets shall be designed and installed in accordance with ANSI/APSP-7

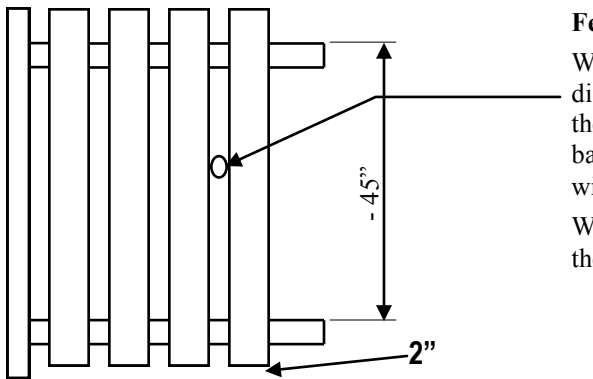
## Regulations for Various Pool Barrier Construction Types

### **Solid Barrier**

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.

### Pool Barriers Containing Openings

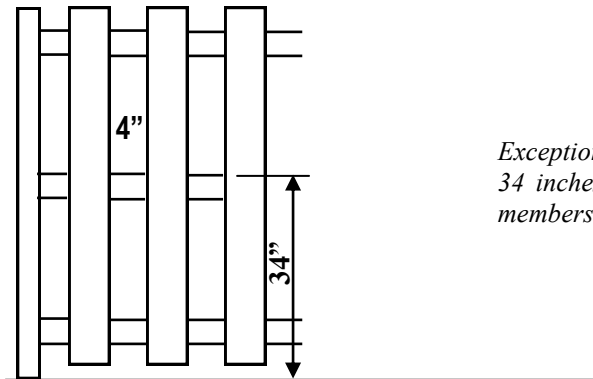
The maximum allowable spacing between vertical members of the pool barrier (fence) is determined by the distance between the tops of the horizontal members of the pool barrier (fence).



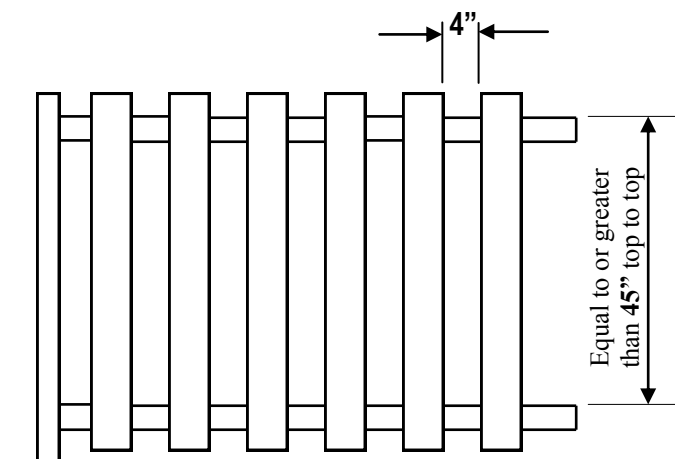
#### **Fence with Vertical and Horizontal Members**

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 barrier and the spacing between vertical members shall not exceed 1-3/4" in width.

Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1-3/4" in width.



*Exception: When intermediate horizontal members are located 34 inches or more above grade, the spacing between vertical members shall not exceed 4 inches in width.*



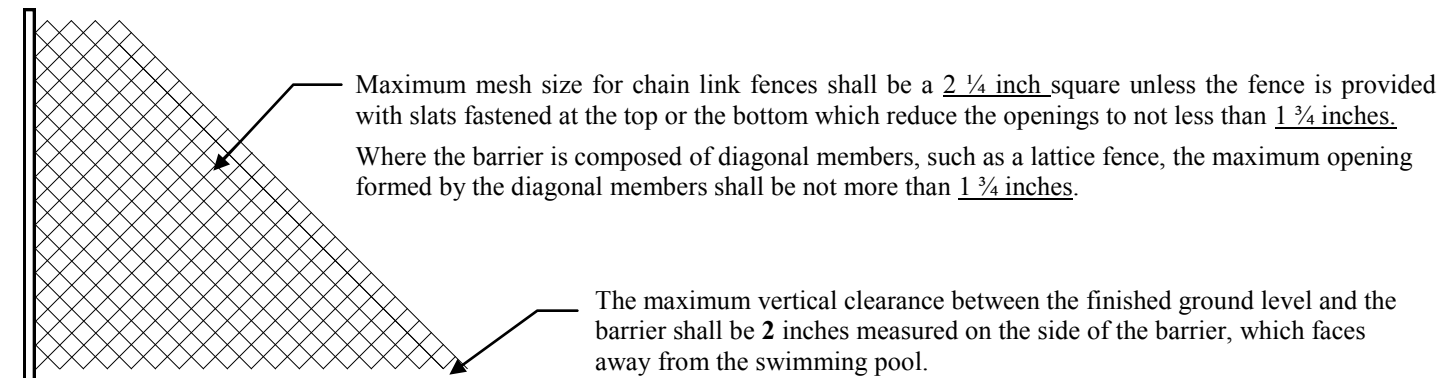
#### **Fence with Vertical and Horizontal Members**

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 members, spacing within the cutouts shall not exceed 1-3/4" in width.

## Regulations for Various Pool Barrier Construction Types

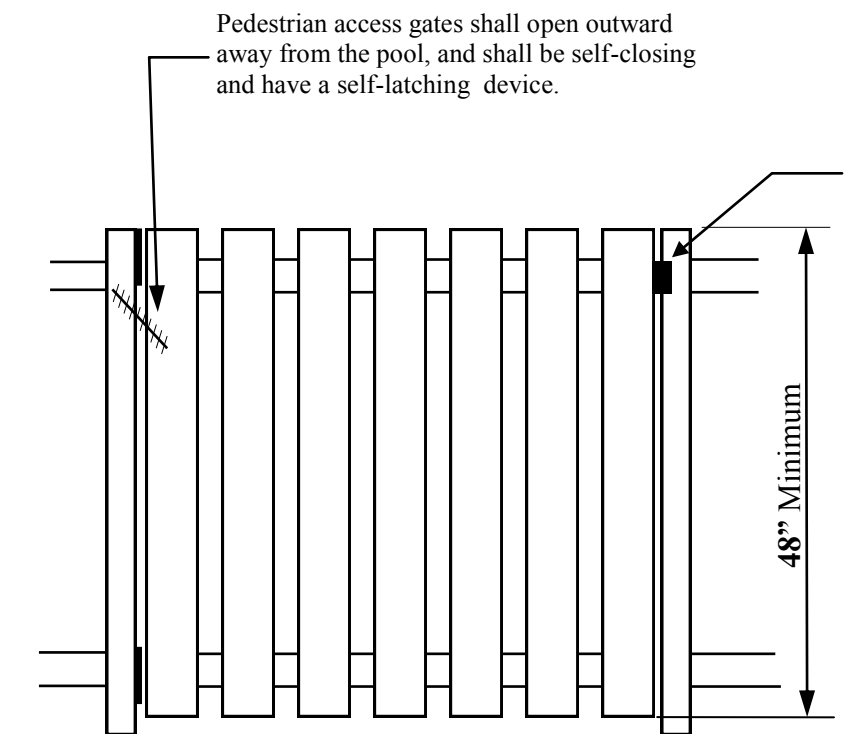
### **Chain Link Fence or Lattice**



### **Pedestrian Access Gates**

Swimming pool access gates shall meet the requirements for swimming pool barriers.

Gates other than pedestrian access gates, shall have a self-latching device.



The latching device must be located at least 48" above the bottom of the access gate.

Where the release mechanism of the self-latching device is located less than 48 inches above the bottom of the gate, the release mechanism shall be located on the pool side of the gate at least 3 inches below the top of the gate.

The gate and barrier shall have no opening larger than 1/2" within 18 inches of the release mechanism.

Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:

1. Pool shall be equipped with a powered safety cover in compliance with ASTM F 1346
2. Doors with direct access to the pool through that wall shall be equipped with an alarm when the door or screen is opened. Alarm shall be listed and labeled in accordance with UL 2017. Deactivation switch(es) shall be located 54" above the threshold of the door.
3. Self closing doors with self latching devices which are approved by the governing body shall be acceptable as long as the degree of protection is not less than that required for items listed above.