

## **POOL/SPA BARRIER REQUIREMENTS (page 1 of 2)**

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

**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 drowning and near drowning 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 13/4 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 13/4 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 13/4 inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a 21/4-inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than 13/4 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 13/4 inches.

## **SWIMMING POOL BARRIER REQUIREMENTS (page 2 of 2)**

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 1/2 inch (13 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 in accordance with UL 2017. The deactivation switch(s) 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 so 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.

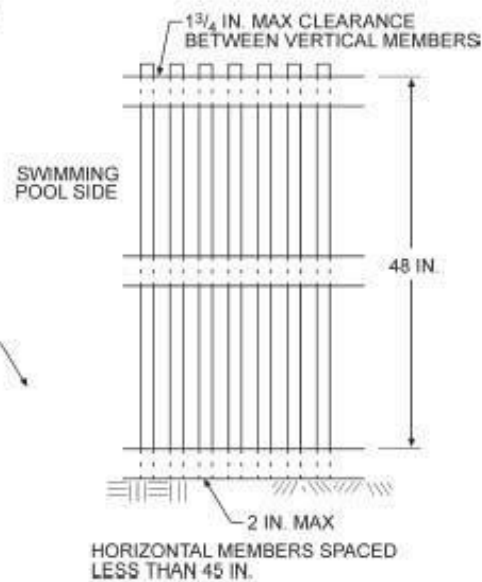
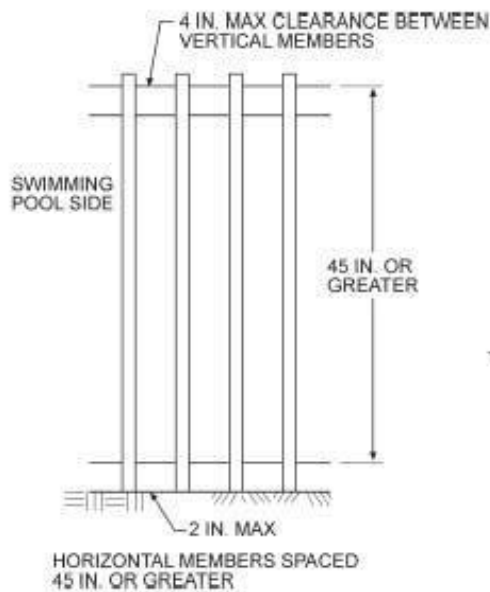
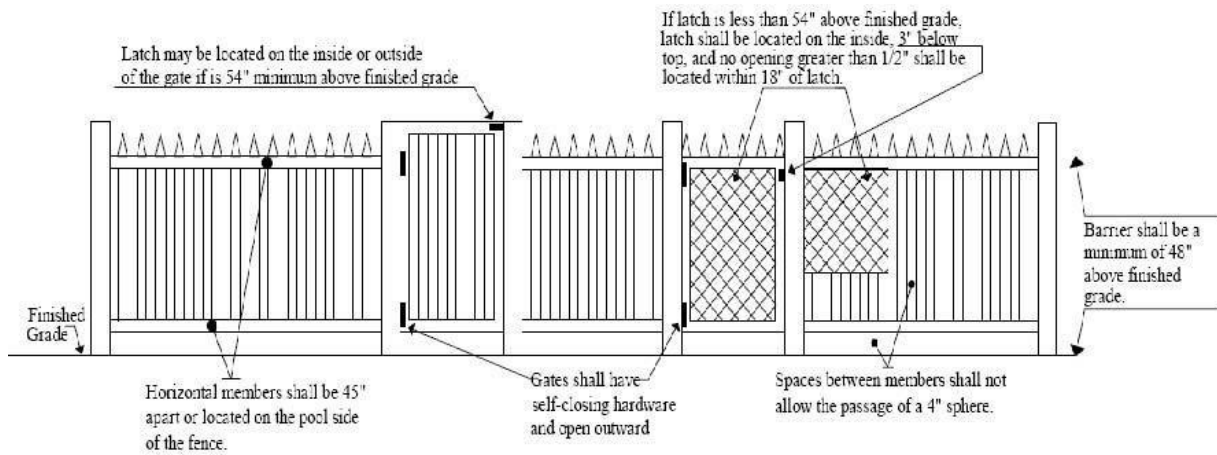
**AG105.3 Indoor swimming pool.** Walls surrounding an indoor swimming pool shall comply with Item 9 Section AG105.2,

**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.

#### **Automatic Vehicle Entry Gate as Pool Barrier Component:**

Where an automatic vehicle entry gate is incorporated as a component of a pool barrier, it is recommended that the gate shall open and close within one (1) minute of opening with a single activation of the switch in order to prevent a gap in the barrier once a vehicle has passed through.



For SI: 1 inch = 25.4 mm.

Figure AG105.2(2)  
PRIVATE SWIMMING POOL BARRIER CONSTRUCTION

**POOL BARRIER CERTIFICATION**

SITE ADDRESS \_\_\_\_\_

POOL CONTRACTOR \_\_\_\_\_

This document requires that the **HOMEOWNER** certify that one (1) of the following protection methods has been installed. For new dwellings without a certificate of occupancy, the general contractor listed on the building permit shall sign the form.

I certify that **one** of the following protection devices has been installed at all doors with direct access to the pool:

Doors with direct access to the pool 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(s) shall be located at least 54 inches above the threshold of the door.

Doors with direct access to the pool area shall be equipped with self-closing doors and self-latching devices. The latch must be at least 54 inches above the threshold of the door.

OWNER - PRINT NAME: \_\_\_\_\_

OWNER - SIGNATURE: \_\_\_\_\_

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_, in the year\_\_\_\_, before me \_\_\_\_\_, Notary

Public, personally appeared \_\_\_\_\_.

Personally 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 he (she/they) executed it.

WITNESS my hand and official seal. \_\_\_\_\_

Notary's Signature

\_\_\_\_\_  
Notary's Name (print)

My commission expires: \_\_\_\_\_

**The form must be uploaded to the permit via the CSS portal.**