

## **Pool Barrier Requirements for Residential Pool**

## International Residential Code 2003 Appendix G, Section AG105-2- AG105.5

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

- 1. The top of the barrier shall be at least 48 inches (1219mm) 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 (51mm) 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 aboveground 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 (102mm).
- 2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102mm) sphere.
- 3. Solid barriers which do not have openings, such as masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
- 4. When the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143mm), the horizontal members shall be located on the swimming pool side of the fence, or shall be so constructed as to not provide a climbable surface. Spacing between vertical members shall not exceed 1.75 inches (44mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 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 1.75 inches (44 mm) in width.
- 6. Maximum mesh size for chain link fences shall be a 2.25-inch (57 mm) square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1.75 inches (44 mm).
- 7. Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall not be more than 1.75 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:
  - A. The release mechanism shall be located on the pool side of the gate at least 6 inches (152 mm) below the top of the gate
    - 1. The gate and barrier shall have not opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
- 9. Where a wall of a dwelling serves a part of the barrier one of the following conditions shall be met:
  - A. All 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 its screen, if present, are opened. The alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened and be capable of being heard throughout the house during normal household activities.

The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means, such as touchpad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than 15 seconds. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door.

- 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, then:
  - A. The ladder or steps 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 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.
- 11. Pool Barriers may not be built in easements.

## Can I use the "no climb" horse fencing for my pool barrier?

"No climb" fencing was designed to prevent animals, primarily horses, from being caught in the fence. It has not been reviewed nor tested as a barrier to the pool. Using a study of drowning and near drowning incidents by the Consumer Product Safety Commission, a fence should not have footholds, handholds, and spaces that children under the age of five can use to climb or gain access to the pool. The maximum 1 ž inch space is based on the foot width of young children that prevents them gaining a foothold. The 2 inch maximum gap at the bottom of the fence precludes entry under the barrier. The "no climb" horse fence does not meet these requirements as a barrier to the pool.

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.