

# Above Ground Swimming Pools

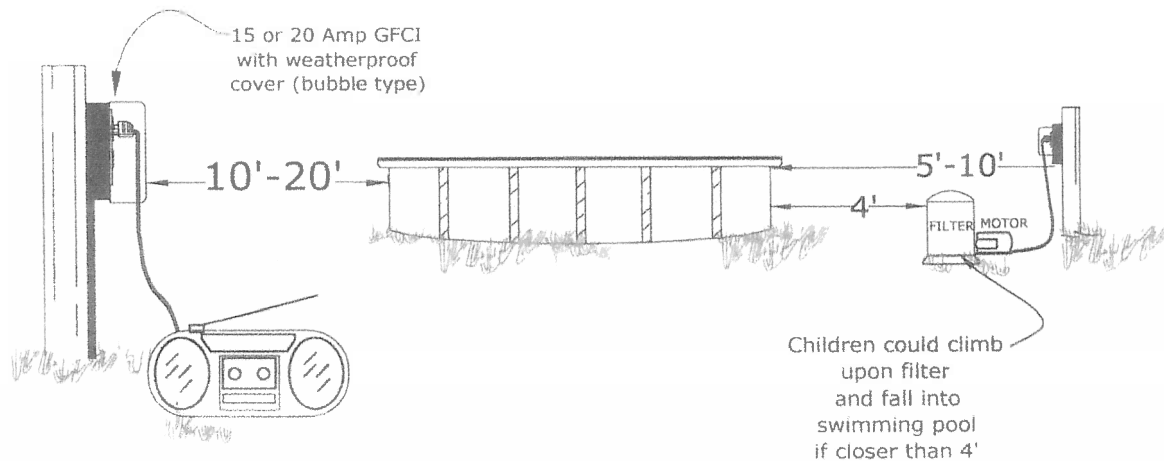
Any structure intended for swimming or recreation bathing that is capable of holding water 24" or more in depth, including inground, aboveground and on ground swimming pools, hot tubs and spas shall comply with the following::

## Receptacles for water pump motor or related to circulation (required)

- 5ft-10ft from inside wall of pool.
- 20 amp -12AWG
- GFCI single twist lock weatherproof device box with in-use cover.
- 3ft maximum cord length.
- Pump no closer than 4' from pool.

## Receptacles for general purpose (required)

- 10ft-20ft measured from inside wall of pool.
- 15 or 20 amp GFCI weatherproof device box with in-use cover.



## Wiring

- All wiring to the receptacles shall be buried underground and minimum depth measured from the top of conduit:

- 6" rigid metal conduit
- 6" intermediate metal conduit
- 18" nonmetallic conduit (pvc)

Metal conduit shall be corrosion resistant and suitable for the location.

No Underground feeder cable (UF) may be used for motor branch circuits.

## Bonding

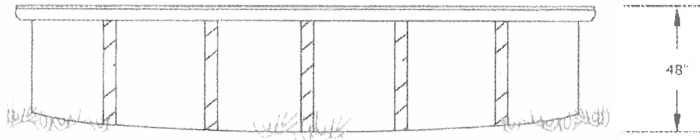
This means that you must join all metallic parts to form an electrically conductive path that will ensure electrical continuity to safely guard against any electrical current that may likely be imposed.

**VOLTAGE**

- Use #8 AWG solid, covered or bare copper wire or larger, from the wire lug on the motor and all metal parts relating to the pool circulating system, to a metal pool upright and to any other metal within 5' of the pool.
- Wire must be buried underground.

If pool pump motor is double insulated do not bond pump motor or any other metal to it. Bonding conductor shall be connected to the equipment grounding conductor of the motor circuit instead.

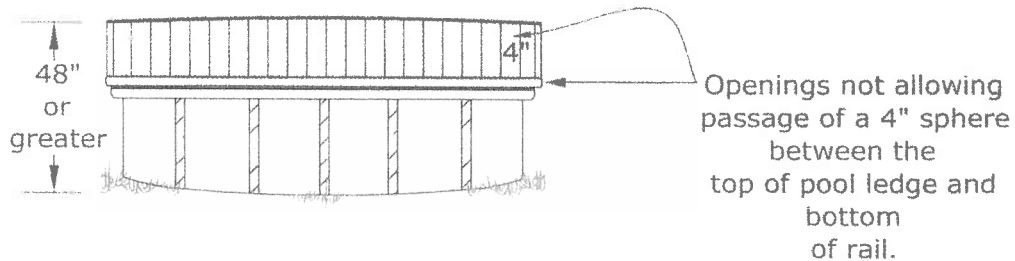
## Barrier requirements



If pool is not at least 48" above grade at all locations a barrier must be used.

- The pool must be 48" high from the finished grade level to the top of the pool ledge at all points around the pool, if not a barrier must be erected.
- This barrier must be measured on the outside (side facing away from the pool.)
- The maximum opening space between the ground level and the bottom of the barrier can be 2" max.

If 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 not exceed 4". Many of the pools are purchased with this feature that attaches the barrier on top of the shelf around the pool but remember that the opening may not allow passage of a 4" sphere at both sides of the ladder, deck or between the balusters!



## Ladder requirements

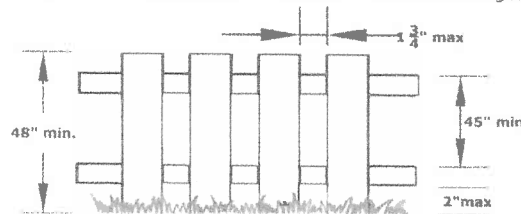
- The ladder or steps shall be capable of being secured, locked or removed when not in use to prevent access.

## Different types of barriers

### Vertical and Horizontal (Ladder Effect)

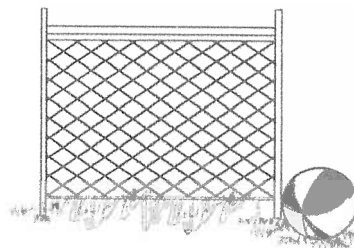
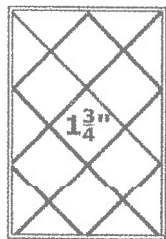
- If the barrier is made up of vertical and horizontal members and the space between the horizontals are less than 45" then the horizontal members must be constructed on the pool side. Spacing between the vertical members shall not be greater than  $1\frac{3}{4}$ ". If the horizontal members are more than 45" then the horizontal members can be on the outside of the pool and the vertical spacing can be increased to 4" max.

This reason for this restriction is that a child can climb on the horizontal railing and get to the other side.



### Diagonal (lattice type)

- Maximum opening formed by the diagonal members shall not be more than  $1\frac{3}{4}$ ".



### Chain Link

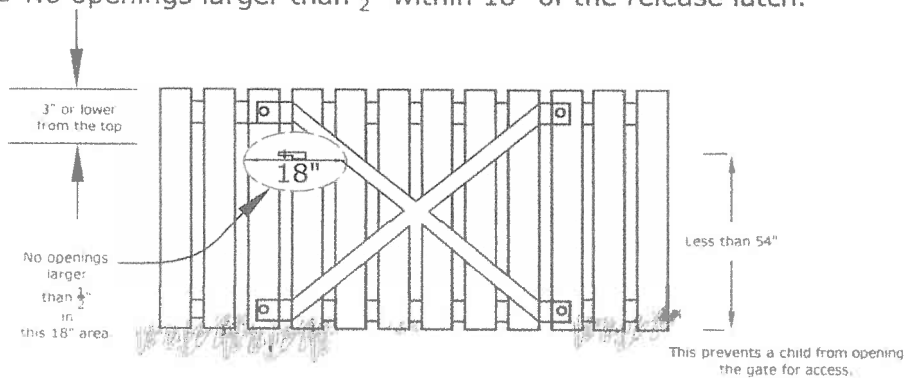
- Maximum mesh size opening shall not be greater than  $2\frac{1}{4}$ " square unless the fence has slats fastened at the top or bottom which reduces the openings to  $1\frac{3}{4}$ ".

## Pedestrian access gates

- Gate shall have locking device.
- Gate shall open outward away from the pool.
- Gate shall be self-closing.

## Gates other than pedestrian access.

- Gate shall have a self latching device.
- Where the release mechanism of the latch is located less than 54" from the bottom of the gate, the mechanism and opening shall have the following:
  - The latch shall be located on the pool side 3" below the top of the gate.
  - No openings larger than  $\frac{1}{2}$ " within 18" of the release latch.



## Dwelling serves as part of the barrier

All doors from the house with direct access to the pool shall have an a listed and labeled alarm. The alarm is an audible warning when the door is opened. The following requirements must be followed.

- Listed and labeled in accordance with UL 2017
- The alarm shall activate within 7 seconds and sound continuously for a min. of 30 seconds after door is opened and/or its screen.
- The alarm shall be equipped with a manual means to temporarily deactivate the alarm for a single opening and last for no more than 15 seconds.
- The alarm shall automatically reset under all conditions.
- The deactivation switch shall be located at least 54" above the threshold of the door.

Other means like self-closing doors with self latching devices must be approved by the Building Code Official.