



Above Ground Swimming Pools

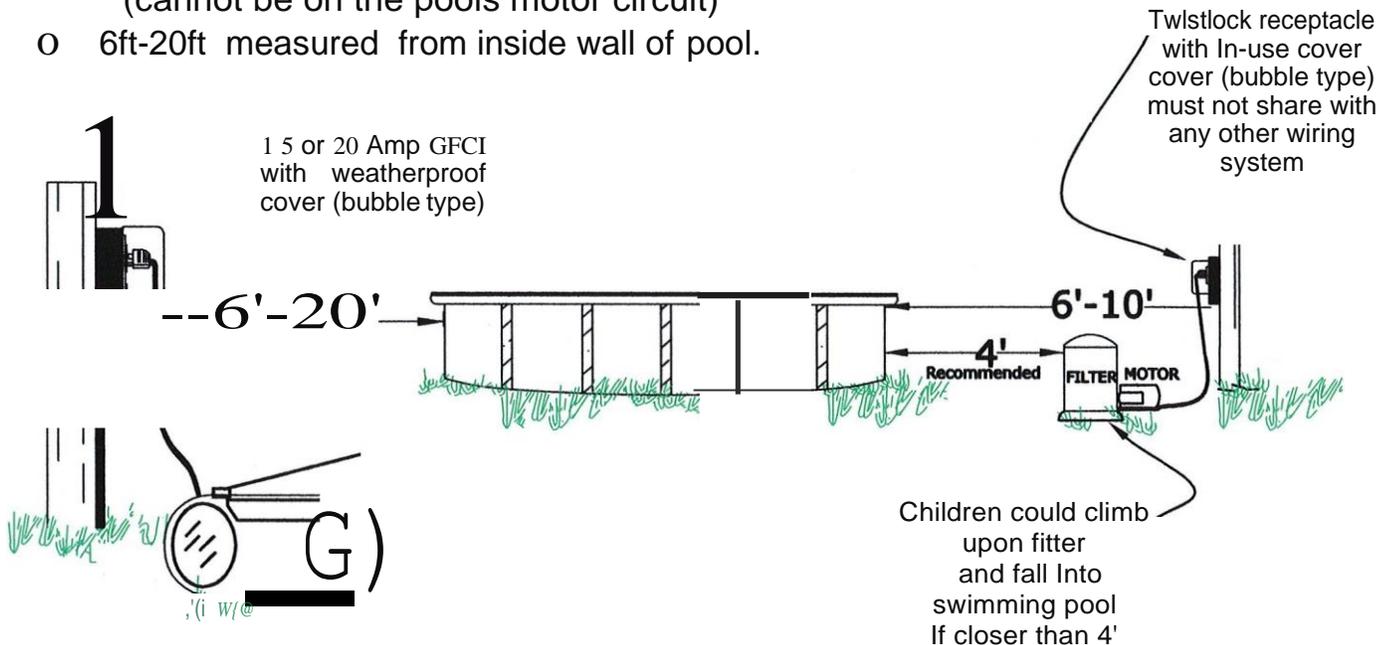
Any structure intended for swimming or recreation bathing that is capable of holding water over 24" deep, including in-ground, above-ground, and on ground swimming pools, hot tubs and spas shall comply with the following:

1 Required Receptacle for water pump motor or related to circulation

- O A twist lock receptacle must be in a weatherproof device box and have an in-use cover.
- D Be placed 6ft-10ft away from pool
- D The feed wiring must be **Individual Insulated conductors** (1 black, 1 white and 1 green #12AWG THHN/THWN)
- D The 3 individual conductors must be installed in conduit
- O The cord for the motor cannot be longer than 3' and be molded twist lock plug.
- D A 20 amp GFCI circuit breaker is required and is to serve motor only.

1 Required Receptacle for general purpose

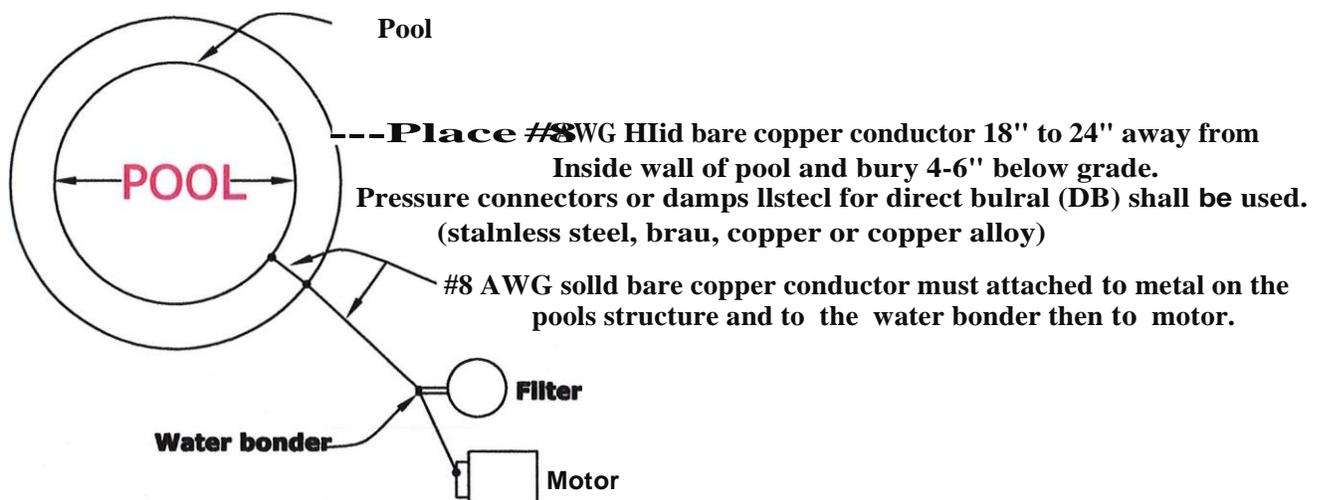
- D 15 or 20 amp, GFCI, weatherproof device box with in-use cover (cannot be on the pools motor circuit)
- O 6ft-20ft measured from inside wall of pool.



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.

- D The pool water shall be bonded by a conductive surface area of 9 square Inches. (example: model #E325037 Pool water bonder II)
<http://www.waterbonder.com/>
- D Equipotential bonding required- One number 8 AWG bare solid copper conductor shall be provided and follow the contour of the perimeter surface 18¹¹ to 24¹¹ from the inside wall of the pool. The required conductor must be 4¹¹ to 6¹¹ below the subgrade and be attached at a minimum of 1 points uniformly spaced around the perimeter of the pool.



***It** pool pump motor is double insulated it shall not be bonded to this motor but instead shall be connected to the pool pump motor receptacle equipment grounding conductor (green).

Note:

A solid #8 (green insulated or bare) copper conductor of sufficient length shall be provided to make a connection to a replacement motor if the motor is not double insulated.

All metal within 5' of inside wall of pool shall be bonded to the pool with #8 Solid copper.

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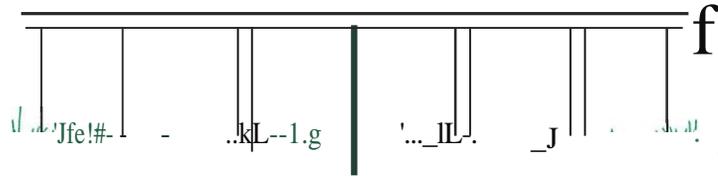
It is required that a automatic turnoff and on the **pool pump** arm be installed to a set schedule. This must be installed.

Wiring

- O All wiring to the panels shall be buried underground and shall extend 5' horizontally from the inside wall of the pool with a minimum depth measured from the top of conduit for the following types:
 - & rigid metal conduit
 - & Intermittent metal conduit
 - 18" **nonmetallic conduit** (pvc)
- O Metal conduit shall be corrosion resistant and suitable for the location.
- D Conductors inside of conduits shall be insulated:
 - #12 awg for 20 amp (120V) and rated for wet locations
 - black (or approved color); white and green (Individual insulated wires)

[Jo] Underground feeder cable (UF) may be used for motor branch circuits.

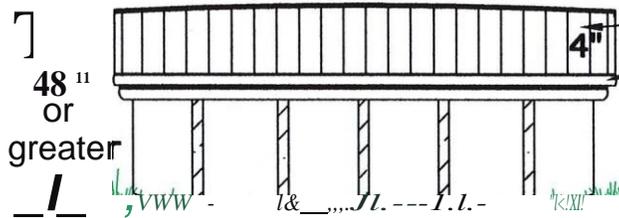
Barrier requirements



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

- D The pool must be 48¹¹ 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.
- O This barrier must be measured on the outside (side facing **away** from the pool.)
- O The maximum opening space between the ground level and the bottom of the barrier can be 2¹¹ **max.**

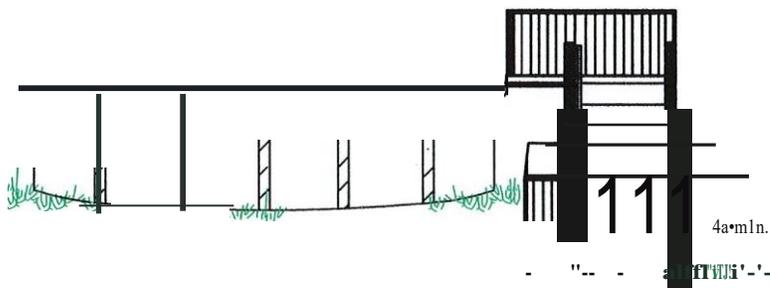
If the barrier is mounted on top of the pool structure the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall not exceed 4¹¹. Many of the pools are purchased with this feature that attaches the barrier on top of the shelf around the pool but remember that the opening may not allow passage of a 4¹¹ sphere at both sides of the ladder, deck or between the balusters!



Openings shall not allow passage of a 4¹¹ sphere between the barriers and between the pool ledge and bottom rail.

Ladder requirements

- O A ladder or steps shall be capable of being secured, locked or removed when not in use to prevent access.
- D If permanent steps are installed as shown below then a gate with barriers are required at the bottom of the staircase. The gate must open **away** from the steps and follow all barrier requirement on the following pages.

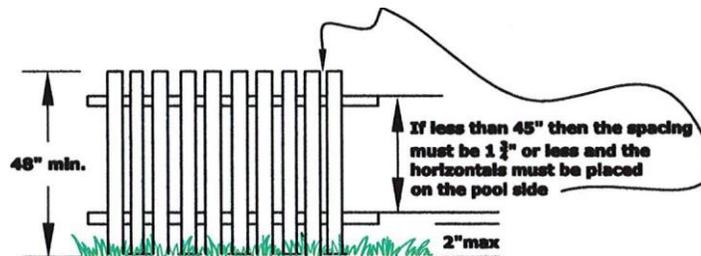


See the following pages for requirements.

Different types of barriers

Vertical and Horizontal (Ladder Effect)

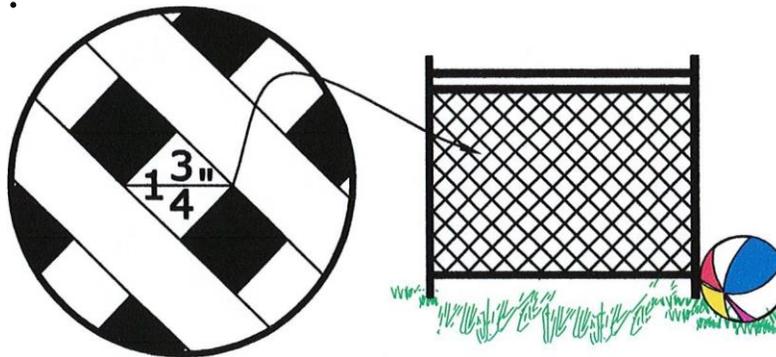
- D If the barrier is made up of vertical and horizontal members and the space between the horizontals are less than 45" then the horizontal members must be constructed on the pool side. Spacing between the vertical members shall not be greater than 1 1/4". If the horizontal members are more than 45"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



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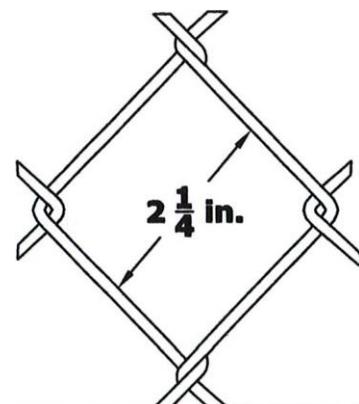
Diagonal (Lattice type)

- D Maximum opening formed by the diagonal members shall not be more than 1 3/4".



Chain Link

- o Maximum mesh size opening shall not be greater than 21" square unless the fence has slats fastened at the top or bottom which reduces the openings to 11".

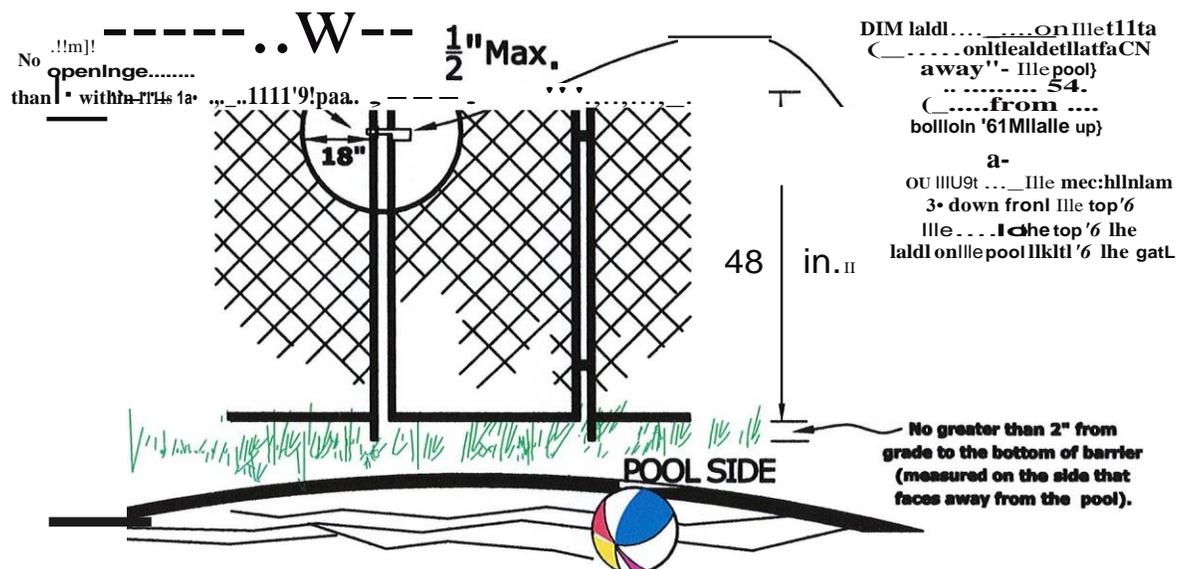


Pedestrian gates (Pool access)

- D Gates shall open outward away from the pool.
- O Gates shall be self-closing and self-latching.
- O Gates shall be equipped to accommodate a locking device.
- D 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 and illustrated below:
 - D The latch shall be located on the pool side 3" below the top of the gate.
 - D No openings larger than $\frac{1}{2}$ " within 18" of the release latch.

Gates other than pedestrian access (Equipment access)

- D Gates shall be self latching
- D Gates shall be equipped to accommodate a locking device.
- D Where the release mechanism of the latch is located less than 54" from the bottom of the gate measured up, the mechanism and opening shall have the following as illustrated below:
 - O The latch shall be located on the pool side 3" below the top of the gate.
 - D 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 alarm listed and labeled. The alarm is an audible warning when the door and/or its screen, if present, are opened. The following requirements must be followed.

- D Listed and labeled in accordance with UL 2017
- D The deactivation switch shall be located at least 54" above the threshold of the door.
- D Other means like self-closing doors with self latching devices must be approved by the Building Code Official.