

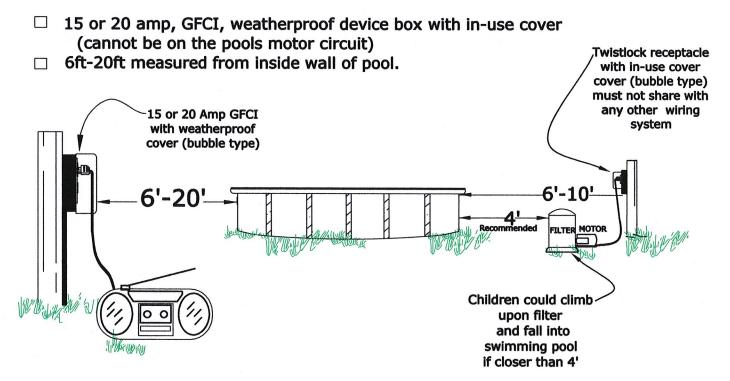
Above Ground Swimming Pools

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 cannot share with any other wiring system

- ☐ A twist lock receptacle must be in a weatherproof device box and have an in-use cover.
- ☐ Be placed 6ft-10ft away from pool
- ☐ The feed wiring must be <u>individual insulated conductors</u> no (UF) Underground feeder wiring (1 black, 1 white and 1 green #12AWG THHN/THWN)
- ☐ The 3 individual conductors must be installed in conduit
- ☐ The cord for the motor cannot be longer than 3' and be molded twist lock plug.
- ☐ A 20 amp GFCI circuit breaker is required and is to serve motor only.

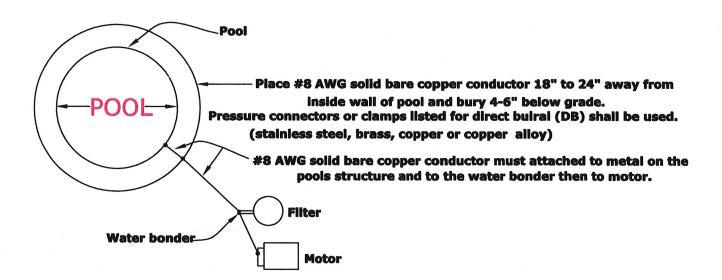
1 Required Receptacle for general purpose



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.

- ☐ 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/
- □ Equipotential bonding required- One number 8 AWG bare solid copper conductor shall be provided and follow the contour of the perimeter surface 18" to 24" from the inside wall of the pool. The required conductor must be 4" to 6" below the subgrade and be attached at a minimum of 1 points uniformly spaced around the perimeter of the pool.



*If 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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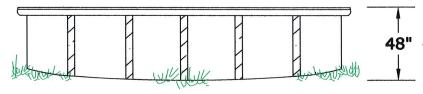
☐ Is required that can automatically turn off and on the pools pump according to a set schedule. This must be installed.

Wiring

- All wiring to the receptacles 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:
 - 6" rigid metal conduit
 - 6" intermediate metal conduit
 - 18" nonmetallic conduit (pvc)
- ☐ Metal conduit shall be corrosion resistant and suitable for the location.
- 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)

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

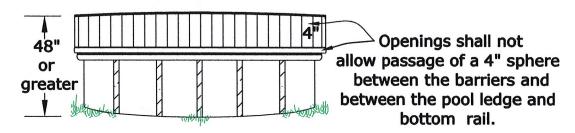
Barrier requirements



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

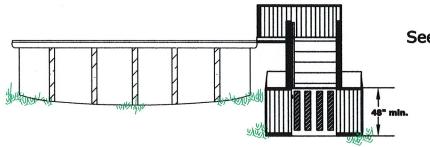
- ☐ The pool must be 48" high from the finished grade level to the top of the pool ledge at all points around the pool, if not a barrier must be erected.
- ☐ This barrier must be measured on the outside (side facing away from the pool.)
- ☐ The maximum opening space between the ground level and the bottom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

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

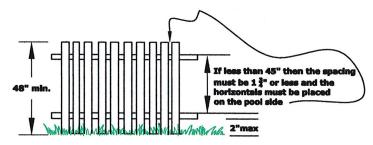


See the following pages for requirements.

Different types of barriers

Vertical and Horizontal (Ladder Effect)

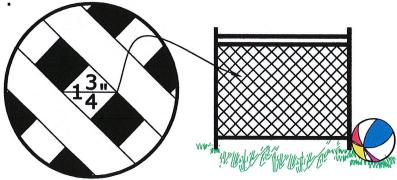
☐ If the barrier is made up of vertical and horizontal members and the space between the horizontals are less than 45" then the horizontal members must be constructed on the pool side. Spacing between the vertical members shall not be greater than 1¾". If the horizontal members are more than 45" then 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.

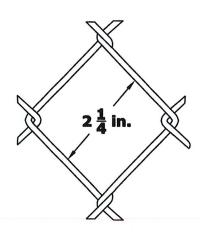
Diagonal (Lattice type)

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 gates (Pool access) Gates shall open outward away from the pool. Gates shall be self-closing and self-latching. Gates shall be equipped to accommodate a locking device. Where the release mechanism of the latch is located less then 54" from the bottom of the gate, the mechanism and opening shall have the following and illustrated below: ☐ The latch shall be located on the pool side 3" below the top of the gate. \square No openings larger than $\frac{1}{2}$ within 18" of the release latch. Gates other than pedestrian access (Equipment access) ☐ Gates shall be self latching ☐ Gates shall be equipped to accommodate a locking device. ☐ Where the release mechanism of the latch is located less then 54" from the bottom of the gate measured up, the mechanism and opening shall have the following as illustrated below: ☐ The latch shall be located on the pool side 3" below the top of the gate. \square No openings larger than $\frac{1}{2}$ " within 18" of the release latch. If the latch mechanism on the gate (measured on the side that faces NOTE! < No openings greater away from the pool) is less than 54" than 🕯 within this 18" (measured from the area as shown. bottom of the gate up) then ou must place the mechanism 3" down from the top of the gate to the top of the latch on the pool side of the gate. 48 min." No greater than 2" from grade to the bottom of barrier **POOL SIDE** (measured on the side that faces away from the pool). **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

☐ Listed and labeled in accordance with UL 2017

must be followed.

☐ The deactivation switch shall be located at least 54" above the threshold of the door.

and/or its screen, if present, are opened. The following requirements

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