

Equipotential Bonding Grid

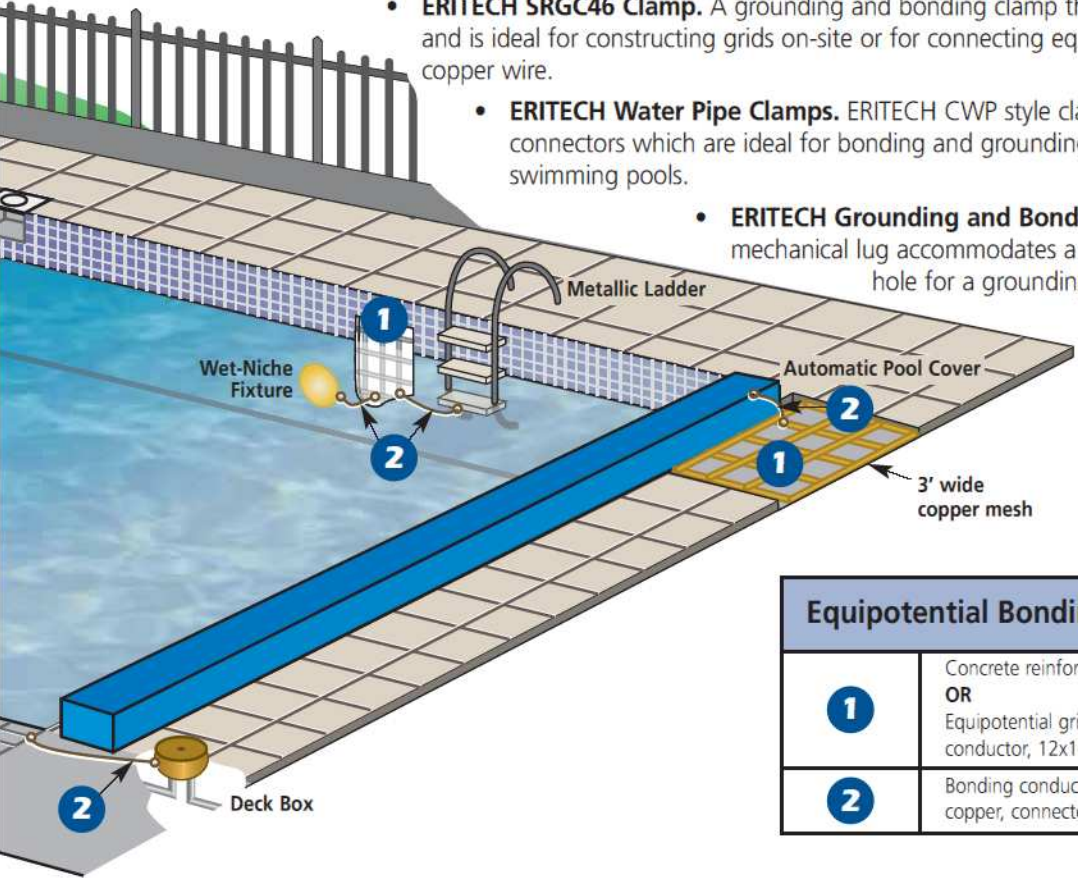
All of the bonded parts in or around the swimming pool must be attached to an equipotential bonding grid. This grid must extend 3' beyond the inside surface of the pool under concrete, stone or other paved walking surfaces. This grid can consist of the following:

- **Reinforcing Steel.** Uncoated reinforcing steel of a concrete pool (poured or sprayed, with painted or plaster coatings) can be used as the equipotential bonding grid.
- **Copper Grid.** A grid constructed with a minimum of #8 AWG bare solid copper conductors with 12" x 12" spacing.

Pools made of non-conductive materials (fiberglass composite, vinyl lined polymer or other non-conductive materials) do not require an equipotential grid that covers the full contour of the bottom and sides of the pool, however an equipotential grid is still required around the perimeter of the pool extending 3' beyond the sides of the pool.

EQUIPOTENTIAL BONDING SOLUTIONS FROM ERICO® INCLUDE THE FOLLOWING:

- **ERITECH® Prefabricated Mesh.** Convenient, efficient and economical for equipotential bonding grids. Prefabricated mesh is constructed with #8 AWG solid copper conductor with 12" x 12" spacing and is available in 3' x 100' rolls and other convenient sizes.
- **CADWELD® Welded Electrical Connections.** For connecting the bonding conductor to rebar and to the copper grid. CADWELD provides a permanent, low-resistance connection needed to create a long-lasting, reliable bonding network. CADWELD connections will not deteriorate with age, cannot loosen and are made with inexpensive, lightweight and portable equipment.
- **ERITECH® Direct-Burial Grounding Clamps.** EK16 / EK17 - a timesaving, cost-effective, versatile product that combines four clamps into one. The bronze-alloy clamp consolidates separate rebar clamps, ground rod clamps, water pipe clamps and direct-burial water pipe clamps into one product.
 - **ERITECH SRGC46 Clamp.** A grounding and bonding clamp that is UL® listed for direct burial in concrete and is ideal for constructing grids on-site or for connecting equipotential bonding mesh to #8 AWG copper wire.
 - **ERITECH Water Pipe Clamps.** ERITECH CWP style clamps are UL-listed mechanical connectors which are ideal for bonding and grounding the metallic pipes and conduit of swimming pools.
 - **ERITECH Grounding and Bonding Lug.** The EL4 bronze single hole mechanical lug accommodates a #8 AWG solid conductor and has a 1/4" hole for a grounding stud.



Equipotential Bonding	
1	Concrete reinforcing steel per NEC 680.26 (B)(1) OR Equipotential grid, #8 AWG or larger solid copper conductor, 12x12 spacing per NEC 680.26(C)(3)
2	Bonding conductor, #8 AWG or larger solid copper, connected per NEC 250.8