

What is bonding?

Bonding is the process by which the electrical and metallic components of the pool are joined together with a wire to form a non-resistive path between the components. The goal of bonding is to connect, contain and prevent the transmission of any harmful electrical voltage to pool equipment, people and pets.

Bonding connects the pool's electrical and non-electrical metal components into a network that contains the electricity. The low impedance path back to the power source allows the harmful current to flow and trip the breaker at the panel.

Without a bonding system in place, you might conduct stray electrical current when touching the metal pool rail or pool water.

What is grounding?

Grounding is the process by which the bonded pool components are connected to the earth. The goal of grounding is to direct and dissipate any harmful electrical current to the ground and away from pool equipment, people and pets.

Grounding connects the pool's electrical network to the electrical panel and then to the earth to direct and dissipate excess electricity. Without a grounding system in place, people or pool equipment may become the conductor. Harmful electrical current may move toward people, pets, or equipment instead of moving away and to the earth.

How do bonding and grounding work together in a pool?

Bonding and grounding work together to provide an important element of pool safety. Electrical components, such as pumps, and non-current-carrying metallic components, such as pool rails, are electrically interconnected (bonded) and grounded to the earth so that electrical potential cannot exist between them. Together, proper bonding and grounding ensure the electrical safety of your pool.

Fireplace Doors Online Bonding Illustrations

Fireplace Doors Online will not create any illustrations of bonding because it may vary per your local codes. Your certified local electricians will be able to provide the information necessary per your installation.