

POOL DEFENDER™ TECHNICAL INFO



ABOUT POOL BONDING REQUIREMENTS

Since 2008 the National Electrical Code (NEC) has mandated that pool water shall be electrically bonded, not just metals in the structure of the pool itself.

As required in NEC Section 680.26(C) the Bonding Device shall:

- Consist of at least 9 sq. in. of conductive material
- Shall be in contact with the water 24/7, whether the circulation system is running or not
- The Connector (lug) must be unable to "back off" (due to vibration, etc.) at any time

Code enforcement for these requirements is consistently increasing. High level pool professionals should already be meeting these requirements for all pool service and installations. To ease this process CMP is developing a complete line of cost effective, easily installed pool bonding devices for in ground and above ground pools.

ABOUT CORROSION DAMAGE TO "SALT WATER" POOLS

Salt water generators have greatly gained in popularity as a replacement for traditional pool sanitation methods. These systems are a great solution for many homeowners that prefer storing fewer harsh chemicals and who also enjoy more "automated" pool care. However in a swimming pool "salt water" can create a very corrosive environment for metal pool components and equipment.

WHY DOES THIS HAPPEN?

Any time different metals are present in your salt water pool, a small amount of electrical current is created between them. Over time this will actually cause metal ions to release into the pool water. As this "galvanic corrosion" builds over time, you will experience:

- Metal erosion and damage
- Plaster discoloration
- Pool surface stains

Damage can eventually be severe and expensive. This can effect all metal parts, including but not limited to heaters, lights, niches, automatic covers and safety rails.

HOW CAN DAMAGE BE PREVENTED?

The electrical current generated effects high grade metals more slowly than weaker metals. Zinc is a weak metal that will erode faster than other metals, essentially "sacrificing" itself to prevent corrosion and staining in other areas of the pool. The Pool Defender Sacrificial Zinc Anode is designed to prevent the damage caused by salt water sanitation systems.

- The zinc anode will erode instead of your expensive pool components
- The Pool Defender Sacrificial Anode is tied into the pool bonding wire, thereby protecting the entire pool
- Simply replace the anode after half of it has eroded, typically in about three years
- Certified for use as a water bonding device by NEC2008 680.26(C) building code requirements

Notes are for general information purposes only. Always install professionally and refer to local and national code requirements for installation guidelines. You can visit www.nfpa.org for more information.