

HOME OWNERS GUIDE

Swimming & Spa Pool Equipotential Bonding



WATER AND ELECTRICITY DON'T MIX. MANDATORY ELECTRICAL WORK IS REQUIRED WHEN INSTALLING A SWIMMING OR SPA POOL.

DON'T PUT THE SAFETY OF YOUR FAMILY AT RISK!

THE LAW: BONDING IS LICENSED ELECTRICAL WORK

Electrical equipment and conductive metalwork in the general pool area is required to be equipotentially bonded (earthing).

This work is legally required to be performed by a licensed Electrician.

Plan ahead. Discuss the electrical work with your pool builder:

- Engage with your electrical contractor early in the design/planning process
- Install bonding conductors prior to build of pool & landscape construction
- If possible, eliminate any conductive metal near the pool edge



WHAT NEEDS TO BE EQUIPOTENTIALLY BONDED



Equipotential bonding to the electrical earthing system is required for:*

- Installations where the pool structure is conductive (sheet metal structure - above ground pool) or contains metal within its structure (reinforcing steel of the pool shell or immediate surrounding deck)
- Any conductive metal greater than 100mm in any dimension within 1.25m of the pool edge
- Conductive ladders and diving boards associated with the pool
- Conductive fencing that is within 1.25m of the pool edge

These shall be connected by an equipotential bonding conductor to the electrical earthing system of the property.

EQUIPMENT SELECTION / INSTALLATION METHOD

An equipotential bonding conductor and connection method shall be:*

- Appropriately designed and constructed (**specifically for swimming and spa pool applications**)
- The earthing cable connecting the metal parts to the earthing system requires corrosion and mechanical resistant protection
- Electrically tested to ensure the earth bonding cable and the associated conductive metal fixtures and fittings, reinforcing steel and conductive parts of electrical equipment are of the required low resistance

***as per AS/NZS3000:2018 (The Wiring Rules)**

Please note that this is general guidance of the intent of the Wiring Rules. State regulators may have variances to this advice. You are strongly advised to engage with a Licensed Electrical Contractor (Master Electrician) to seek the best possible outcome.