



## Public Buildings

### Environmental Health Guide

#### Health (Swimming Pools) Regulations 1964

#### Electrical Requirements

The Health (Swimming Pools) Regulations 1964 require all swimming pools except those for single residential properties to be approved by the Executive Director Public Health (EDPH). The Regulations contain both construction and operational requirements and the EDPH is able to require more onerous conditions than those that may be required by Western Power or the Office of Energy. AS/NZS 3000 clause 7.2.1 reflects these more onerous requirements for higher risk pools.

Equipotential bonding and the excessive number and unsuitable location of electrical outlets have been a cause for concern. The following notes are intended to clarify the EDPH's requirements for defined pools.

#### Power Outlets

AS 3000 limits the location but not the number of outlets close to the pool water enclosure. Only outlets required for maintaining the pool should be installed. Outlets for vending machines and the like should not be installed adjacent pool concourses or any area likely to become wet during the normal operation. Outlets in pool areas must be the weather proof type and should be installed more than 1 metre above floor level.

#### Electrical Bonding

Section 5.8.2.5 of AS/NZS 3000: 2000 requires equipotential bonding to the following equipment -

1. The exposed metal of any electrical equipment in the pool zone.
2. Any metallic parts of electrical equipment which are not separated from live parts by double insulation and which are in contact with the pool water.
3. Any metallic parts of the pool structure including the reinforcing metal of the pool shell and deck.
4. Any metallic fittings within or attached to the pool structure.
5. Any fixed metal with dimension greater than 100 mm within 1 metre of the pool edge.
6. Bonding conductors must be no less than 4 mm<sup>2</sup>.

Bonding is required unless every item of electrical equipment that is in contact with the pool water is separated from live parts by double insulation.

Residual current devices do not exempt equipment from being bonded.

The EDPH reserves the right to require bonding in instances where double insulated equipment is utilised.

In some instances metallic objects more than one metre from the pool or smaller than 100 mm such as lane rope anchors may also require bonding.



## Maintenance

All portable electrical equipment (RCD's, extension leads, portable pumps etc) must be tested and tagged by a licensed electrical contractor every six months or prior to the start of each season.

### For further information contact:

Environmental Health Directorate  
Department of Health  
PO Box 8172  
Perth Business Centre  
Perth WA 6849.

Phone: (08) 9388 4999

Fax: (08) 9388 4955

Produced by Environmental Health Directorate  
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