

SENTINEL™

Electric Shock Drowning Protection



Visit splee.au/ipr for Trademark,
Patent and Design Registration
Details

The SENTINEL™
Electrical Insulation Socket
is the Game-Changer in
Pool Safety and Compliance

theSENTINEL.au

Discover the enhanced safety and convenience of the SENTINEL™ - our patented Australian-made Electrical Insulation Socket. As the safer, superior, economical, time saving and inclusive alternative to Equipotential Bonding (Grounding/Earthing) of Extraneous Conductive Elements, such as: swimming pool fence spigots, fence posts, ladders, stair handrails, deck handrails, grab rails, sockets, bar stools, and more. The SENTINEL™ is the No.1 choice for protection against electric shock drowning.

Safer and Superior

The SENTINEL™ avoids the likelihood of the earthing grid being damaged, particularly to the connective wires between disparate elements, causing them to be unsafe - for example during earthworks as part of renovations. The earthing grid can also be difficult to retrofit and expand, with the SENTINEL™ this is easily achieved.

If you are planning on using purported non-conductive spigots, please check the following to see why the SENTINEL™ is the safer and superior alternative, backed by independent testing:

1. Was the testing completed with the clear or powder coated spigot grouted into a reinforced concrete slab? If not, the testing doesn't prove the spigot is non-conductive in situ.
SENTINEL™ Passed All Tests
2. Will the spigots be non-conductive if the grub screw caps are left out, fall out or degrade due to simple wear and tear, exposure to UV radiation, other harsh weather conditions, chemical process and/or mechanical damage? **SENTINEL™ Solves This Problem**
3. Will the spigots be non-conductive if the coating is chipped or scratched due to simple wear and tear, or degraded from exposure to UV radiation, other harsh weather conditions and/or chemical process? **SENTINEL™ Solves This Problem**
4. Have the above limitations been mentioned in the product literature?
SENTINEL™ Is Scientifically Tested
5. Look online for the ABCB "A Guide to Australian Building Product Conformity" and the APCC "Procurement of Construction Products - A guide to achieving compliance".
SENTINEL™ Meets Australian Standards

Economical & Time-saving

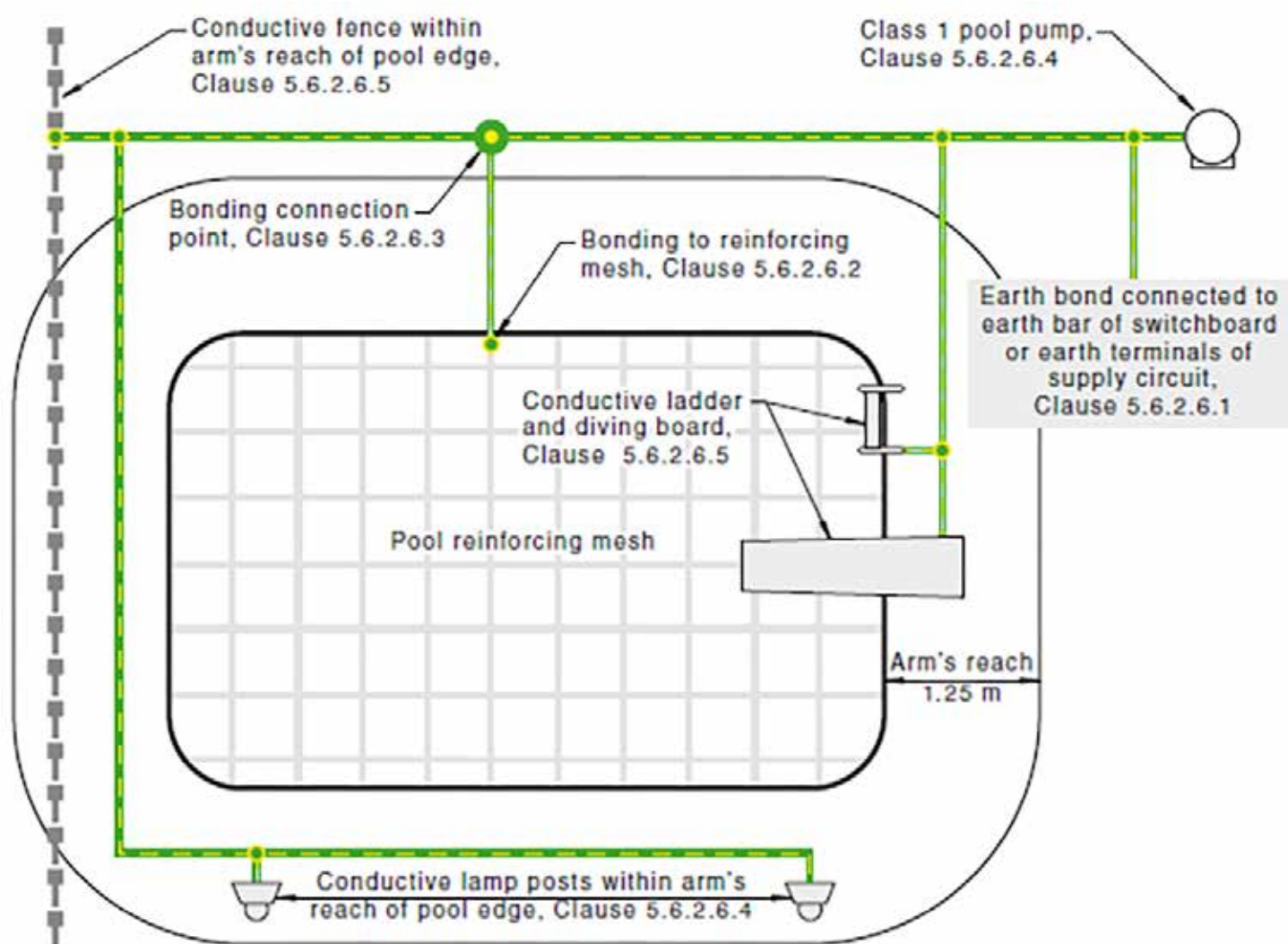
The SENTINEL™ is not only superior in terms of safety, it's also more economical. Connection to the earthing grid must be completed by a licensed electrician; resulting in possible scheduling issues, slow construction and increased costs, with the SENTINEL™ this is totally avoided.

Inclusive

Unlike other purported alternatives to Equipotential Bonding of Extraneous Conductive Elements the SENTINEL™ is inclusive of popular finishes such as Polished or Brushed Stainless Steel.

Understanding Equipotential Bonding

In Australia, Equipotential Bonding is a crucial legal requirement for swimming pools. In accordance with AS/NZS 3000: 2018 5.6.2.6.5 (Australian Standard for Wiring Rules), all metallic parts or extraneous conductive elements, such as pool fence spigots, fence posts, ladders, stair handrails, deck handrails, grab rails, sockets, bar stools, etc. in contact with the pool water or within 1.25m of the pool or spa edge must have Equipotential Bonding (Grounding/Earthing) or a deemed to satisfy alternative used. The purpose of Equipotential Bonding is to ensure the elimination of electrical voltage gradients in the pool area, protecting swimmers and bystanders from electric shock drowning. Water and electricity don't mix!



* FIGURE 5.9 EXAMPLE OF BONDING ARRANGEMENT FOR POOLS AND SPAS

The SENTINEL™ : An Alternative Solution

Traditional Equipotential Bonding can be a complex, time-consuming, and costly exercise, involving the installation of extensive wiring and connection to the earthing grid. However, the SENTINEL™ provides a modern, efficient, and cost-effective alternative with its double insulating properties.



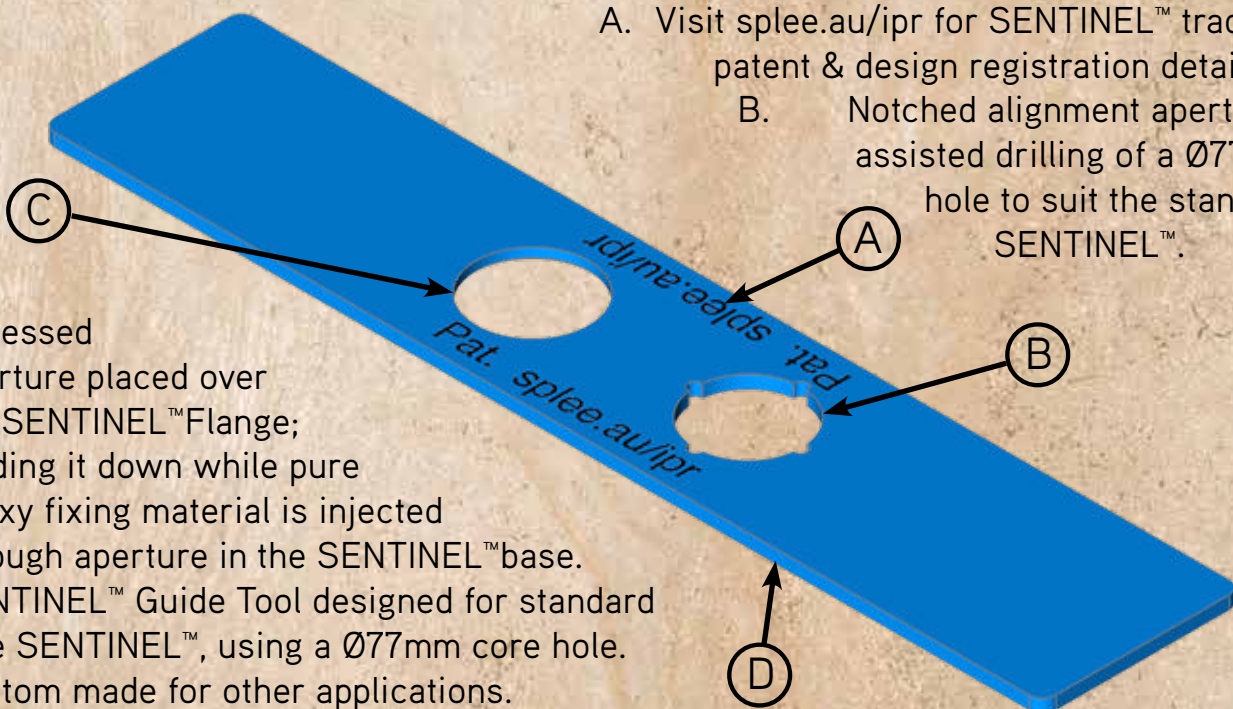
SENTINEL™ Features

1. Visit splee.au/ipr for trademark, patent & design registration details.
2. Apertures for venting air while pure epoxy fixing material rises up the outside of the SENTINEL™.
3. Female side of Bayonet fitting.
4. Male side of Bayonet fitting.
5. Internal protrusion to aid in securing of extraneous conductive element with non shrink grout.
6. External protrusion to aid in securing SENTINEL™ into core drilled hole with pure epoxy fixing material.
7. Aperture for injection of pure epoxy fixing material to secure the SENTINEL™ within a core drilled hole.
8. Chamfered edge of the SENTINEL™ base assists with movement of the pure epoxy fixing material from under the base to up the sides of the SENTINEL™.



SENTINEL™ Guide Tool

- A. Visit splee.au/ipr for SENTINEL™ trademark, patent & design registration details.
- B. Notched alignment aperture for assisted drilling of a Ø77mm core hole to suit the standard size SENTINEL™.



- C. Recessed aperture placed over the SENTINEL™ Flange; holding it down while pure epoxy fixing material is injected through aperture in the SENTINEL™ base.
- D. SENTINEL™ Guide Tool designed for standard size SENTINEL™, using a Ø77mm core hole. Custom made for other applications.

The SENTINEL™ Electrical Insulation Socket is designed with an array of functional features that include venting apertures, secure bayonet fitting of the modular sections, internal and external protrusions for secure fixing, and a chamfered edge base to help with movement of the pure epoxy fixing material from under and up the sides of the socket within the core hole. Due to the modular design, the SENTINEL™ can be lengthened to suit the embedded requirement of the Extraneous Conductive Element and customised in scale for larger items. All these features are created with the user in mind, facilitating a smooth installation process.

Advantages of the SENTINEL™

- **Safety:** The SENTINEL™ ensures that immediate insulation is attained when the socket is fixed in the core hole with the Pure Epoxy Fixing Material and in turn the Extraneous Conductive Element is grouted into the SENTINEL™, preventing any potential electric shock drowning within pool or spa areas.
- **Cost-effectiveness:** As compared to the exorbitant costs of traditional equipotential bonding that may involve laborious tasks and material expenses or the replacement cost of purported non-conductive clear or powder coated elements, the SENTINEL™ is a far more economic option.
- **Ease of Installation:** The installation of the SENTINEL™ is significantly simpler than ensuring compliance with conventional Equipotential Bonding techniques. This enables a quick, stress-free setup and design alterations to the location of Extraneous Conductive Elements is almost unlimited.
- **Product Design:** The SENTINEL™ design allows it to be completely hidden from view under the cover plate of the Extraneous Conductive Element.
- **Proof of Compliance:** To check that an Extraneous Conductive Element, such as a swimming pool fence spigot, is protected and compliant, a building or swimming pool certifier just lifts a cover plate and observes the black flange of the SENTINEL™ Electrical Insulation Socket. Also an easy check for a pool builder or home owner!



**SENTINEL™ PRICE LIST**

PRODUCT		CODE	DESCRIPTION	RETAIL PRICE
 SEIS-S	 SEIS-B	SEIS-S	SENTINEL™ - STANDARD Glass Filled Nylon. Components: 1 x Flange, 2 x Bodies and 1 x Base. Internal Dimensions: Ø66mm x 125mm Height. Suits 76-77mm Diameter Core Drill	\$33.00 + #
		SEIS-B	SENTINEL™ BODY Glass Filled Nylon. To extend SEIS-S internal height by 50mm	\$13.50 + #
		SEIS-T	SENTINEL™ GUIDE TOOL Blue HDPE Plastic Aids drilling core hole and holding down EIS during install. Dimensions: 750mm L x 150mm W x 12mm T	\$45.00 + #
 EGS-CDM	 BIT-76	EGS-CDM	CORE DRILLING MACHINE 220V, Rated Power 2100W, Rated Current 9.7A, Rated rotary speed 850 RPM, Max. Torque 14 Nm. Net Weight 4.8 kg	\$510.00 + #
		BIT-76	Ø76mm CORE BIT Premium quality laser welded diamond core drill bit with 10mm tall Turbo segment for reinforced concrete & suitable for wet & dry cutting, 1-1/4UNC threaded female connection. Laser-marked diameter x Length on the steel shank, 76mm Diameter x 400mm Overall Length x 350mm Cutting depth.	\$137.00 + #
		BCR470	TSA PURE EPOXY 21 1 x 470ml Cartridge with 1 x mixer nozzle Tested & approved for use with the SENTINEL™ (Approx. 300ml required for 1 x SEIS-S)	\$39.95 + # *
		BCR470DT	TSA PURE EPOXY 21 DISPENSING TOOL All metal construction with 18:1 thrust ratio Suitable for BCR470 Cartridge	\$65.00 + # *

+ Price not inc. GST and subject to change without notice

Freight may apply

* No discount

PLEASE READ THIS IMPORTANT INFORMATION REGARDING THE SENTINEL™

- SENTINEL™ installation instructions provided via the 3D Animation on the SENTINEL.au website must be adhered to in full or the SENTINEL™ may not provide the proper protection, this includes the use of approved pure epoxy.
- To maintain the Electric Shock Drowning Protection provided by the SENTINEL™, the extraneous conductive elements (e.g. frameless glass core drilled pool fence spigots and cover plates) must be cleared of all debris prior to pool use.
- Modern Frameless Glass Systems (mfgs.com.au) core drilled pool fence spigots and cover plates are best suited for use with the SENTINEL™ due to the double insulation of the coverplate between the paving, or other surface material, and the spigot. Other distributors of the SENTINEL™ may also supply these same core drilled pool fence spigots and cover plates. For most other suppliers of core drilled pool fence spigots, black nylon spacers (POA) are available. Simply slip the required amount of 2mm thick spacers over the spigot to lift the bottom edge of the coverplate off the paving or other surface material.