

Aussie UNDER COVER

HIDDEN UNDERGROUND POOL COVER SYSTEM



Technical Specifications V13



300-400mm beyond water line is allowed for aesthetic balance but this can be reduced, or increased if necessary

Suggested Size	Approx Waterline		Adjustable lid size	
	Pool Min	Pool Max	Lid Min	Lid Max
Petite	1.50	1.80	2.30	2.50*
Narrow	1.85	2.30	2.73	3.05*
Small	2.40	2.90	3.10	3.58*
Medium	3.00	3.60	3.70	4.20*
Large	3.70	4.10	4.40	4.80*
LargePlus	4.20	4.20	4.40	4.90
Super (2 lids)	4.30	4.80	4.95	5.50*
SuperPlus (2 lids)	4.80	5.40	5.46	6.10*
SuperMax (2 lids)	5.50	6.00	6.20	6.65+
Custom (2 lids)	6.10	6.60	6.20	7.16 *
CustomPlus (2lids)	6.10	7.20	6.20	8.40 ^

* Extended joiners increase Length up to 120mm
 + 6.4m tube (maximum pit 6.65m)
 ^ 7m tube with extension (maximum tube 7.750m)

Pro rata Warranty

(back to base in Nowra NSW, we will pay return freight only)
 Gearbox and all non-moving parts 5 years
 Motor 5 years
 Gas Struts 2 years
 Telescopic Roller Tube 5 years
 Repair or replacement as determined by
Warranty voided without maintenance

Material Specifications

- Lid Frame – 40mm marine grade aluminium
- Mounting plates – 6mm anodised marine aluminium
- Gear Box – fully sealed aluminium
- Handle – 316 polished stainless steel
- Hinges – 304 stainless steel
- Brackets & Hinge Plates – 6mm anodised marine aluminium
- Gas strut brackets – 3mm 316 stainless steel
- Roller tube – anodised aluminium

Lid frame Covering – Not Supplied with kit

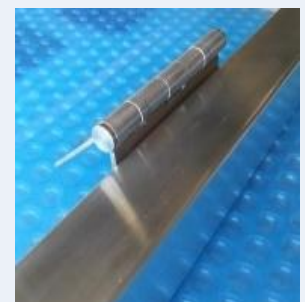
- All timber and composite decking boards up to 35mm
- Tile/Pavers – 8mm up to a maximum of 20mm thick (base board will be specified depending on the specific tile being used)
- Synthetic Turf
- Other products – please call for advice
- **Sqm weight and dimensions of lid material required**



Roller tube mounted to gearbox



7.5mm Hardipanel and 12mm tile on lid frame

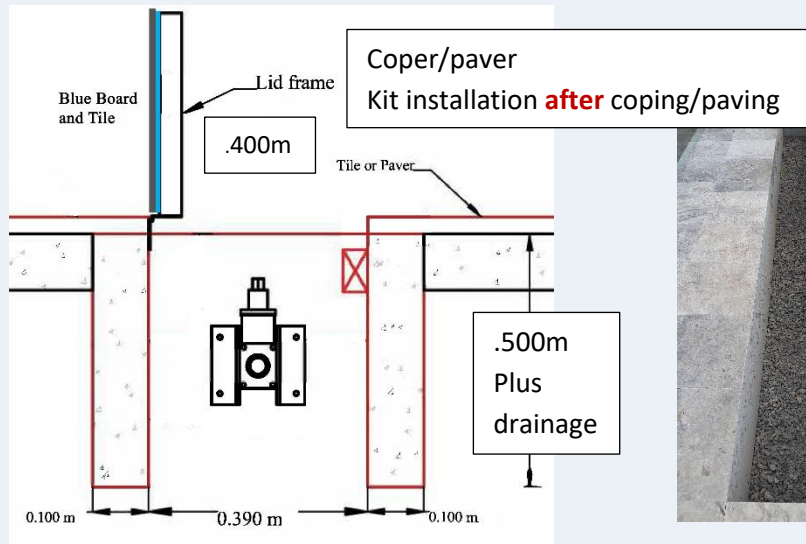


Hinge height set for appropriate lid covering material

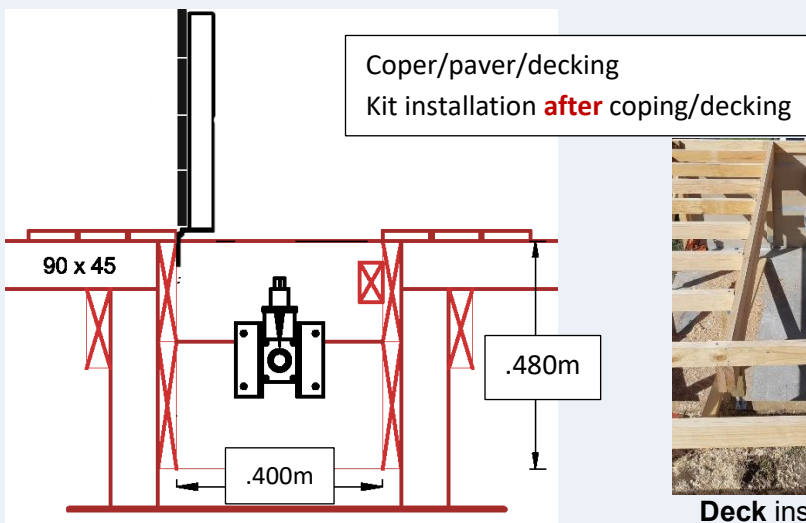
Lid Frame Covering - Get the look you want to match your pool landscaping

- Tile & Timber dimensions and weight must be provided (LxWxH and sqm weight or weight per tile or length)
- **The Hinges are customised to each kit to match the height of your lid frame finish product.**
- **Gas Struts are customised to each kit to match the weight of your lid frame finish product.**
- The standard lid frame finishes 300-400mm past the waterline on either side of your pool but this can be adjusted to match coping or reduced on the non-winder end if space is an issue.
- **Gearbox or motor can go at either end.**
- **NOTE:** no lid frame covering, tiles or timber are provided with any kit.

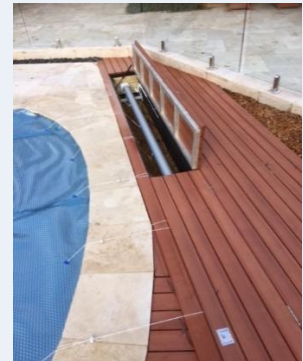
Installation Methods (diagrams not to scale)
Appropriate drainage must be used in all installation methods.
Water should not collect or sit in the pit



Concrete Pit installation



Deck installation



Custom Super (2 lid frames)

Long Pools

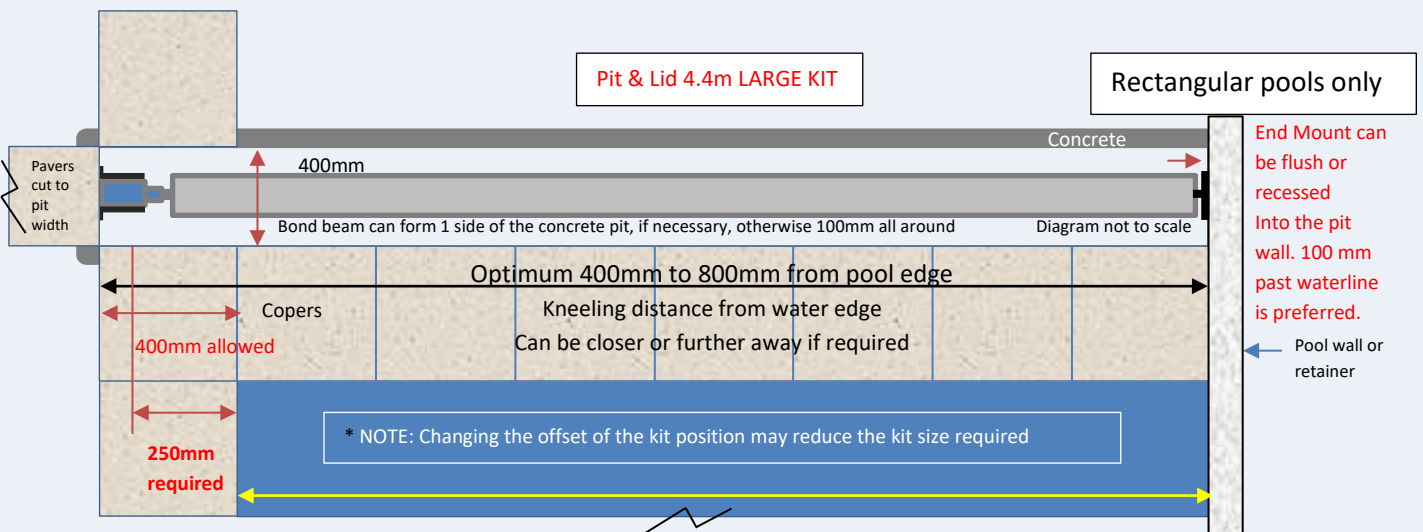
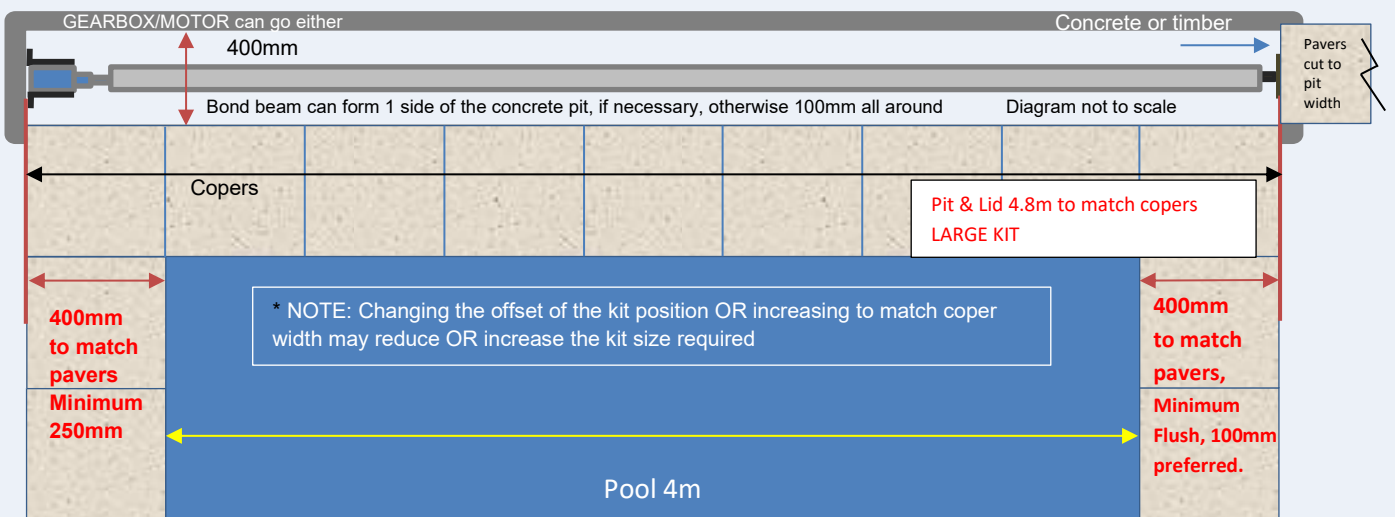
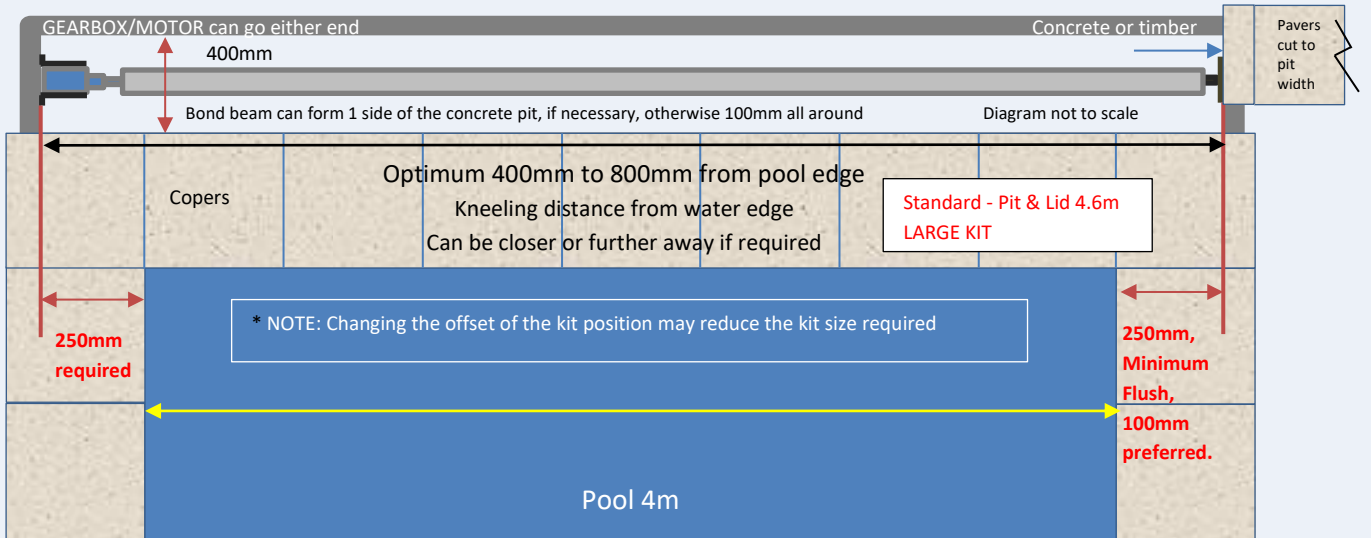
Pools 20m or longer should have a maximum width of 3-4m and use a maximum 400-micron pool cover as thicker covers may be too heavy to roll and may also not fit in the pit. Call to discuss the options if your pool falls outside these limits. We provide custom pit instructions upon request for wider pits, but we recommend the pool cover should not be heavier than 400-micron. If Aussie UnderCover does not provide the pool cover or it is outside our recommendations, we are not responsible for its operation.

Pool Covers

The system is designed for solar bubble covers. Please refer to the following pages for your pool type.

Foam covers may be used but they do not roll as tightly or efficiently as solar covers and require more space. We recommend no longer than 12m in our standard pit. We provide custom pit instructions upon request for wider pits which may be required for foam covers.

RECTANGULAR POOLS – no folds INSTALLATION EXAMPLES



Paving must be level with the coper height. Do not commence any paving fall until after the Aussie Undercover as the lid frame must be installed on a level surface.



CURVED POOLS & SQUARE POOLS WITH FOLDED COVERS

All pools with curves **MUST** have a minimum of .300m+ either side of the waterline.
Covers with folds should have a minimum of .300m on the fold side.

Email your plans if in doubt.

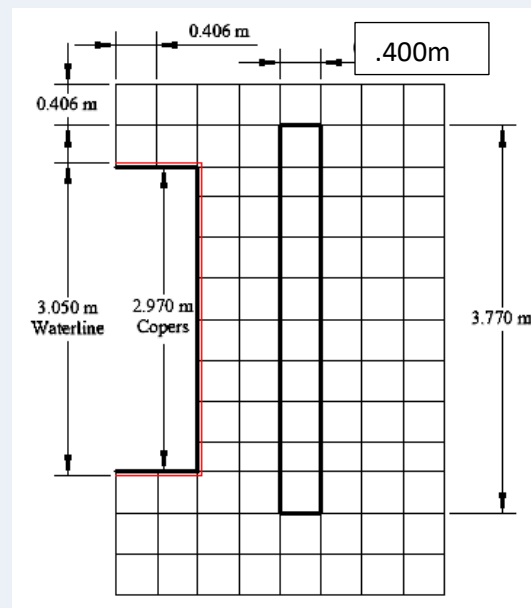
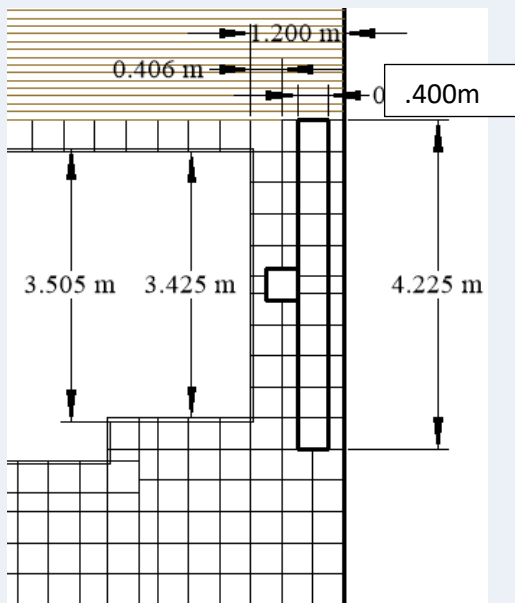
INSTALLATION VARIATION EXAMPLES & PIT SIZE CALCULATION

Harvest Contemporary 6 - 3.505m [internal] Paver plan
.406 x .406 Travertine 30mm paver and 12mm tile

3.050m [internal] Paver Plan
.406 x .406 Travertine 30mm paver and 12mm tile

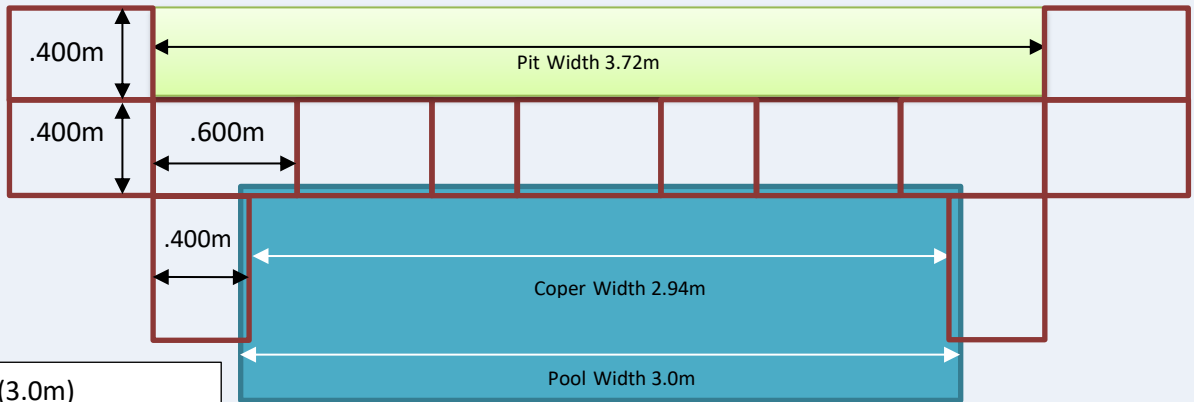
Pool width (3.505m)
- Coper overhang (0.08m)
+ coper width (0.80m)
= 4.225m - MEDIUM KIT

Pool width (3.050m)
- Coper overhang (0.08m)
+ coper width (0.80m)
= 3.77m - MEDIUM KIT

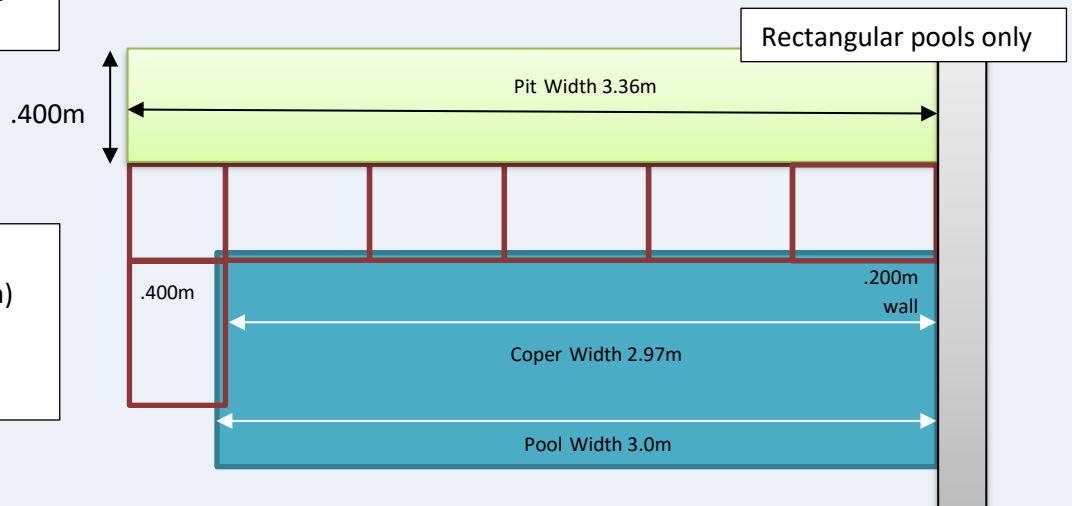


TILE/TIMBER NOTE: Tiles should span the lid frame i.e. 390mm minimum width. If you have unsupported tile joints or flexible timber, you may need to add support to the lid frame e.g. Crazy or French style paving.
Additional Cross Braces available upon request.

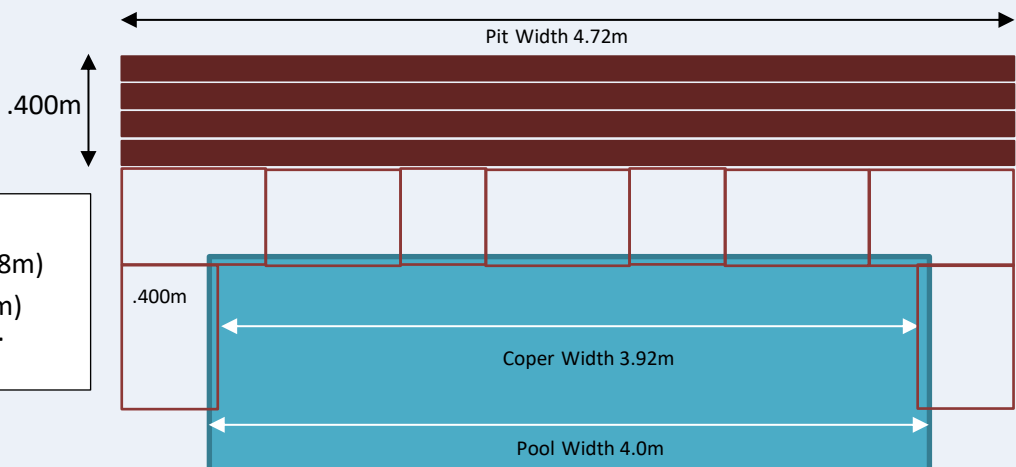
PAVING LAYOUT VARIATIONS (drawings not to scale)



Pool width (3.0m)
- Coper overhang (0.08m)
+ coper width (0.80m)
= **3.72m - MEDIUM KIT**



Pool width (3.0m)
- Coper overhang (0.04m)
+ coper width (0.40m)
= **3.36m - SMALL KIT**



Pool width (4.0m)
- Coper overhang (0.08m)
+ coper width (0.80m)
= **4.72m - LARGE KIT**

TILE/TIMBER NOTE: Tiles should span the lid frame i.e. 390mm minimum width. If you have unsupported tile joints or flexible timber, you may need to add support to the lid frame e.g. Crazy or French style paving
Additional Cross Bars available upon request.

Aussie UnderCover®

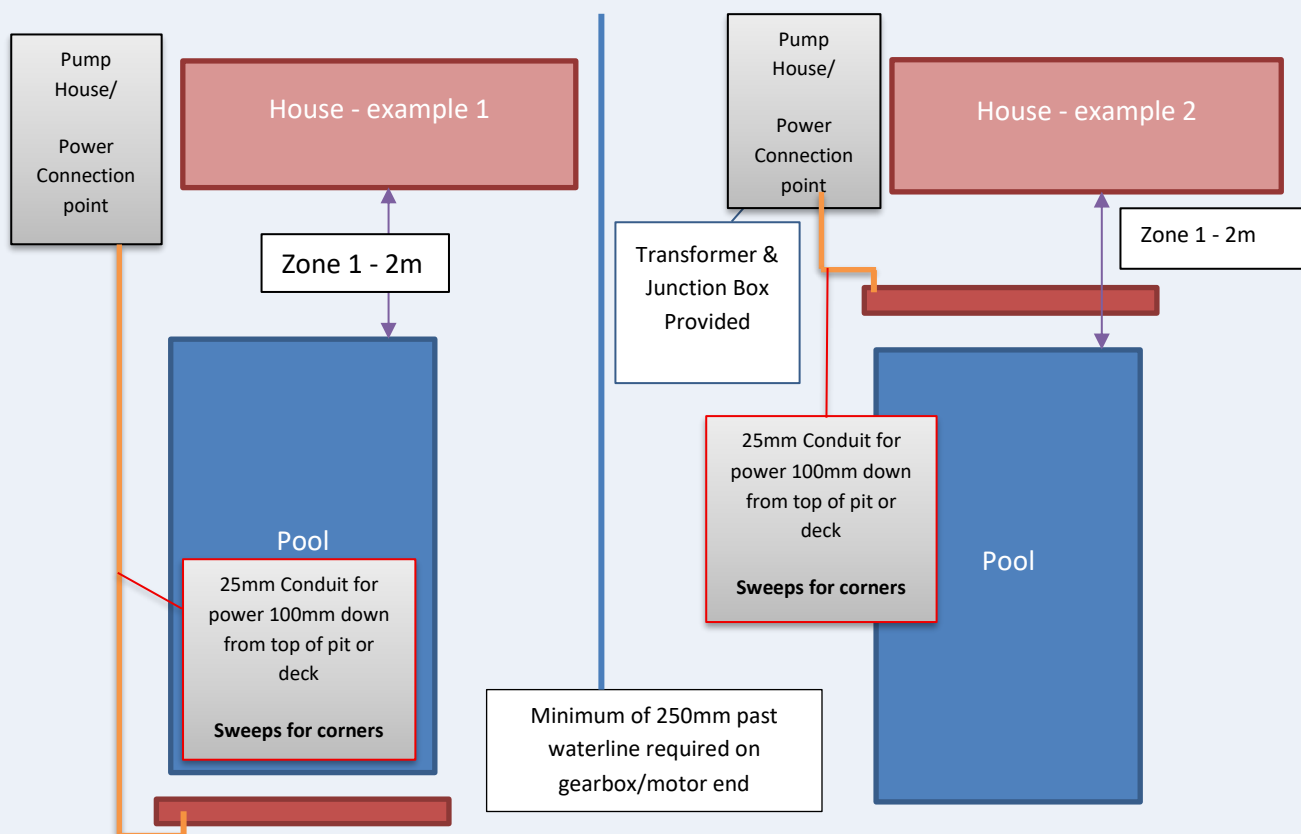
Power layout (power motor IP65)

Ideally the transformer is located with your pool equipment. Other than an appropriate power point, an electrician is NOT required for installation.

24v 450W LED Waterproof Power Supply IP67

Input	AC 170-250V 50/60Hz	Output	DC 24V
	AC 1.34-1A		DC 14.6A
			400/450W
Remote: 1000m 433.92 mhz			
DC Motor 24V High Torque			

25mm to 40mm conduit is required into the pit to the end where the power gearbox will be installed, down 100mm from top of deck or tile/paver level. The power gearbox is a 24V system and can be installed at either end. Wire (5m) and connections are provided in the kit. **Let us know if you need more than 5m.**



Aussie UNDER COVER

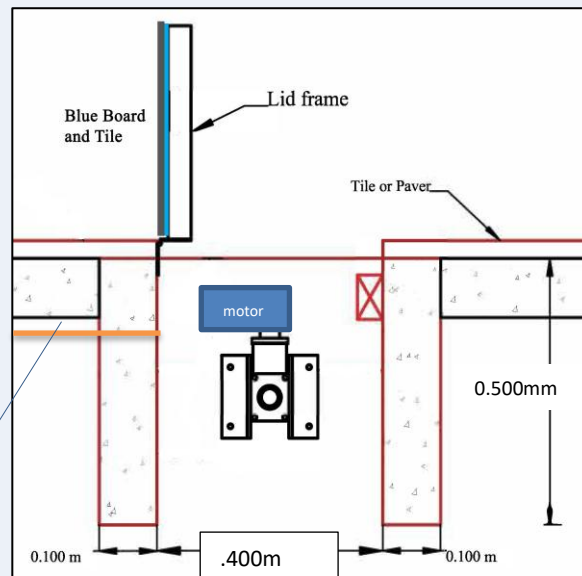
Hidden below ground
pool cover system
1300 722 009



Power Gearbox



Power Upgrade Kit



It is not advised to run 240 volt power into the pit or deck area.

Conduit for wire 100mm down from top of pit.

This information is provided as a guide, and no liability is taken by us for your electrical installation. Please contact a licenced electrician for details specific to your location/site and connection.

343 AS/NZS 3000:2018

TABLE 6.2

SELECTION AND INSTALLATION OF ELECTRICAL EQUIPMENT FOR SWIMMING POOLS, PADDLING POOLS AND SPA POOLS OR TUBS

Equipment	Zone 0	Zone 1	Zone 2
Clause 6.3.4.3— Socket-outlets	Not permitted	Not permitted for general use For pool equipment only: (a) IPX5. (b) (i) ≥ 0.45 m high; and ≥ 1.25 m from internal rim; or (ii) under and ≥ 0.5 m from edge of fixed continuous horizontal barrier ≥ 1.25 m wide. (c) (i) separated supply; (ii) SELV or PELV supply; or (iii) RCD protection.	IPX4 and— (a) separated supply; (b) SELV or PELV supply; or (c) RCD protection.

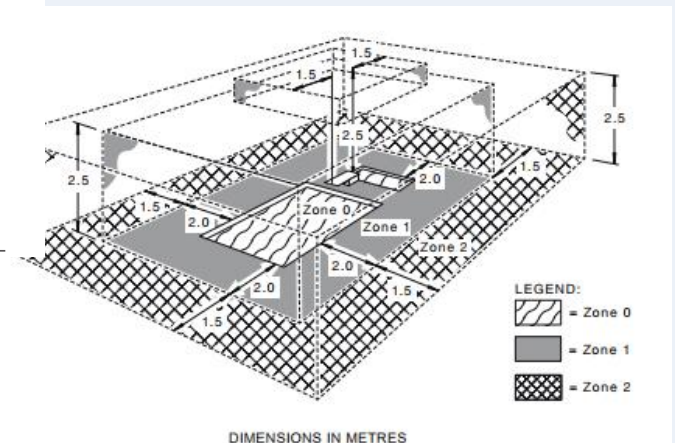


FIGURE 6.15 ZONE DIMENSIONS OF IN-GROUND SWIMMING POOLS

Bonding (Earthing)

Under AS/NZS 3000:2018 (the Wiring Rules), specific requirements apply to equipotential bonding in swimming pools, paddling pools, and spa pools.

The 1.25m Rule

- **Bonding Requirement:** All exposed conductive parts within 1.25m of the pool water edge must be bonded.
- **Vertical Reach:** This zone extends to a height of 2.5m above the floor or standing surface.
- **Purpose:** Bonding ensures all metal surfaces stay at the same electrical potential to prevent electric shock.

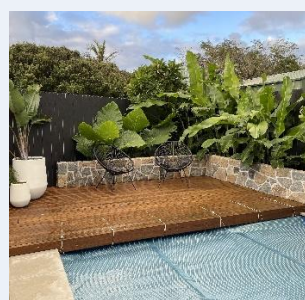
Items That Must Be Bonded

- **Pool Ladders and Rails:** Any metal handrails or steps fixed to the pool structure.
- **Fencing:** Metal pool fences or gates located within the 1.25m arm's reach zone.
- **Diving Boards:** Supporting metalwork for diving platforms or slides.
- **Window Frames:** Conductive window or door frames within the specified distance.
- **Reinforcing Shell:** The steel mesh within the concrete pool shell itself.

Technical Specifications

- **Connector Type:** Connections must be made to an equipotential bonding conductor or terminal.
- **Conductor Size:** Use a copper earthing conductor with a minimum cross-sectional area of 4mm².
- **Corrosion Protection:** All terminals must be protected against moisture and pool chemicals.
- **Exceptions:** Small, isolated metal parts (less than 100mm in any dimension) generally do not require bonding.

This information is not supplied as electrical advice. Always refer to your certifier or a properly qualified electrician.



Power Lid Frame

The power lid frame can be used on all Aussie UnderCover systems that have 24v power available and requires the same space as our standards kits.

New systems include either:

Petite to large systems: 1 or 2 actuators, cable within the pit with a 4-button remote to operate the roller motor and actuators.

(note: systems with one flush side or limited space will have 1 actuator with strut(s) support).

OR

Super to Custom systems: 1 actuator per lid and support strut(s), cable within the pit with a 4-button remote to operate the roller motor and power lid.

Upgrade systems include either:

Petite to large systems: 1 or 2 actuators, transformer (if upgrading from a manual kit), cable within the pit, with a 2-button remote to operate the power lid. 5m cable to run to the transformer.

(note: systems with one flush side or limited space will have 1 actuator with strut support).

OR

Super to Custom systems: 1 actuator per lid and support strut(s), transformer (if upgrading from a manual kit), with a 2-button remote to operate the power lid. 5m cable to run to the transformer.



If more than 5m of cable is required, this must be requested and is an additional charge. Available in 5m increments up to 25m.

Actuators must be position outside the width of the pool cover as shown in our instructions.