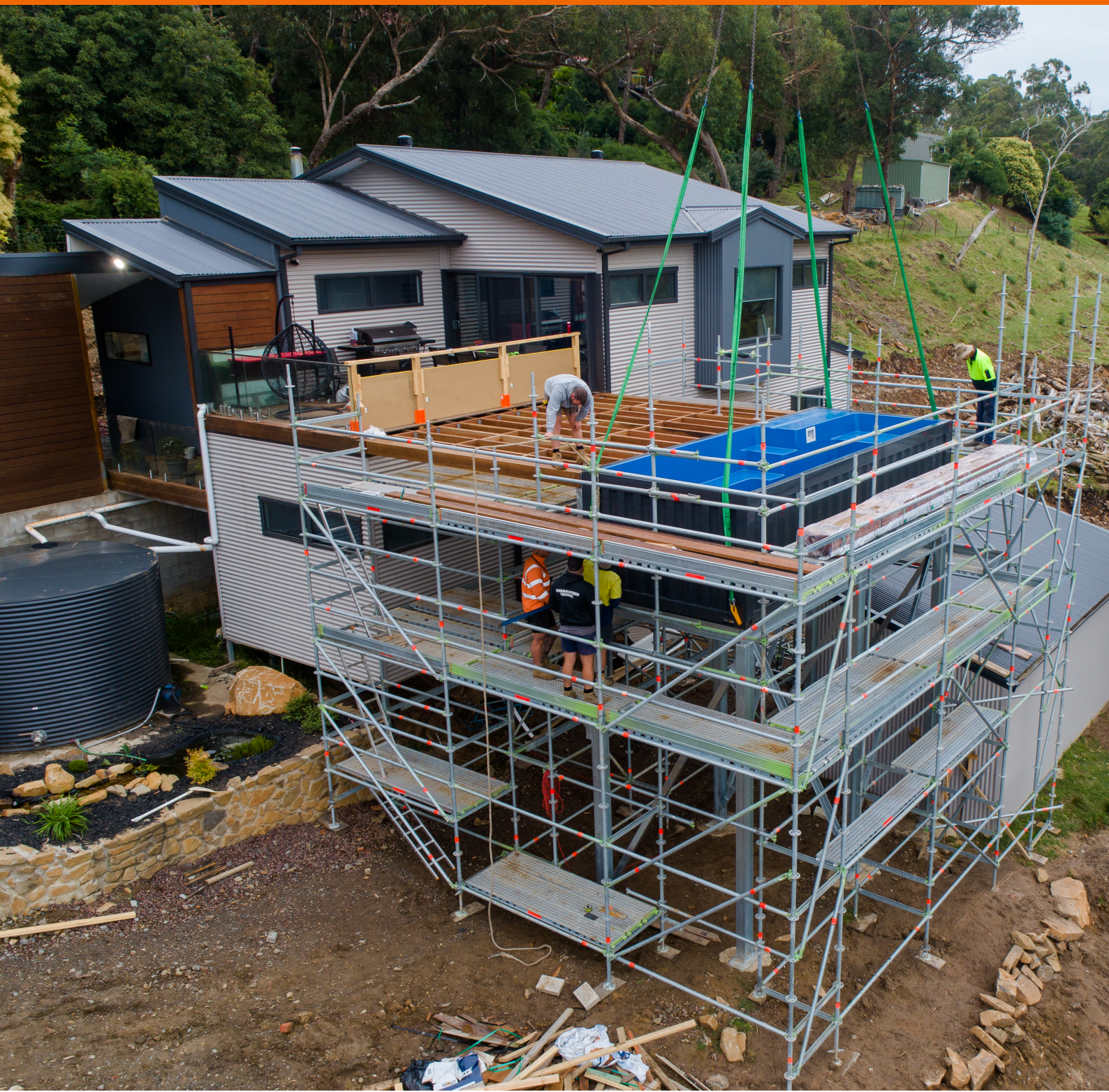
Installation Guide

SHIPPING CONTAINER POOLS



Access

Shipping Container Pools 6m pools are typically delivered on a flatbed truck, and our 12m pools are typically delivered on a semi-trailer rig. We assume that the road and/or site access is suitable for the safe and successful delivery of your Shipping Container Pool upon order. If this isn't the case, it's your responsibility to let us know as soon as possible so we can discuss alternative delivery solutions for you to research.
We've had clients use side loaders, tilt tray unloads, crabbing up and down slopes, and even helicopters for delivery!

If Transport Is Included

We'll load your Shipping Container Pool onto your carrier's truck in our yard at Coolum Beach. From this point, the risk of transport passes from Shipping Container Pools to your carrier's insurer. This is defined as FCA Factory (Incoterms 2020).
This option is best if you have good contacts in the transport industry, or a preference for a specific carrier. Remember that our pools still have the corner blocks intact and fit perfectly onto any truck that's equipped to move standard shipping containers.

Cranage

When your Shipping Container Pool arrives your builder will have organised some way to unload the pool and lift it to its final location. In most cases, this means a mobile crane with sufficient capacity to cover the distance from the truck and to clear any obstacles like power lines or trees.
This is not as hard as it sounds. Every crane company will visit your location ahead of time and ensure the correct crane for the job is supplied.

As you plan your lift, keep a few things in mind:

- It's very important that your Shipping Container Pool is lifted with equal length slings and spreader bars set to keep the slings away from the side of the pool
- The Shipping Container Pool is to be lifted level from the truck and throughout the lift. A tilt indicator is fitted inside the pool and, if actuated, your warranty may be affected.
- Lift it as level as possible to avoid issues.
- Through the lift make sure the pool does not impact any fixed objects such as trees, buildings or structures. An impact indicator is fitted inside the pool and, if actuated, your warranty may be affected.
- Take care to lift the pool slowly and deliberately, and ultimately place it carefully in its final location.
- If your Shipping Container Pool is being lifted onto a support frame, make sure your builder immediately locks it to the structure by bolting or welding it directly to the structure. This is especially important in high wind locations and cyclone prone regions, more so if the pool is empty.

Crushed Rock Base

Please refer to our Gravel Base installation guide.

Concrete Slab

Shipping Container Pools can be placed on an engineered concrete slab designed

to support a distributed load of 25 kN/m2 (25 kPa). This typically results in a reinforced slab 100 mm thick with edge beams, however, it must be certified by a registered engineer so that site conditions are properly considered.
We recommend the slab is sized to be 100 mm larger than the pool along each side.
Make your slab:
For a 6 metre pool: 6,250 x 2,650 mm
For a 12 metre pool: 12,400 x 2,650 mm
Slab thickness, and the placement and specification of reinforcing steel should be as your engineer's design.

Support Frame and Footings

One of the major benefits of a Shipping Container Pool is that it can be placed on a support frame many metres above ground level.
We've seen support frames built from timber or steel but in every case, the frame must be designed and certified by a professional engineer registered in your jurisdiction.
On request, we can supply a drawing that shows the positioning of critical support points and the loads they must carry. Your engineer incorporates these into a design that meets all standards, is visually appealing, and affordable. Your engineer will also design the concrete footings for your support frame. At a minimum, they will need geotechnical reports covering soil type and stability to start the design process.

Individual Support

You also have the option to locate your Shipping Container Pool on individual supports. These are essentially short piers that transfer the weight of your pool to the ground. Again, these must be designed by a professional registered engineer and we can supply drawings to indicate load points.

Certification

Every Australian state has its own rules concerning residential pools. It's important that you or your builder determines the requirements that will apply to your specific situation and complies with them.
The Swimming Pools and Spa Association (SPASA) hosts an excellent online guide, state by state.

We can't provide specialist guidance in this area - the requirements are subject to change and they vary from state to state. What we can say, though, is that we have Shipping Container Pools in every state and territory in Australia - wherever you live you're in great company!

Fencing

If you've clicked on any of the links in the previous section, you'll know that effective and compliant pool fencing is a key requirement throughout Australia.
Beyond compliance, the right style of pool fencing can make your pool area into something truly special. Take some time to investigate the huge range of fencing options available - from frameless glass panels through to powder-coated aluminium, there's sure to be a solution to suit!
Some Shipping Container clients choose to mount panel fencing direct off the side of their pool. This is an excellent solution for high-set pools, and there is a wide range of stand-off and face-mount spigots for the job. If this is your chosen

approach be sure to let us know so we can provide specific fixing advice.

Services

Your Shipping Container Pool is supplied complete with all sanitation and filtration equipment, fully plumbed, inside the container itself. If you've selected the heat pump and/ or swim jet options, this equipment is also fitted inside the container.

Plumber

If you've selected the sand filter option, some local jurisdictions require plumbing to route the backwash and rinse flows to waste. As always, check the regulations that apply to your specific location.
Optionally, you may also want to plumb to waste these two flows:
Skimmer box overflow pipe
Heat pump condensation water (it a heat pump is fitted).

Initial Fill

You may need an acceptance certificate before you are legally allowed to fill your pool - fencing, signage and access are the sorts of things your certifier will look for. If everything is in order, it's time to add water!
Many Shipping Container Pool clients simply fill their pool from the garden hose. This is fine. Others choose to fill via a water tanker and if this is your preferred option, be certain to specify potable (drinking quality) water to ensure there are no unwanted impurities in your pool.
We don't recommend bore water under any circumstances because of the high levels of metals (especially iron) normally present in Australian bore water.
How much water do you need?

The perfect water level is indicated by a small triangle symbol moulded into the skimmer box faceplate but if you go above this, no problems! Each Shipping Container Pool is fitted with an overflow pipe that ensures your pool will never fill beyond a safe water level.
As soon as possible, start your filtration and sanitisation system - even before you've added any chemicals. The filter will remove any small particles suspended in the water - the first step towards a sparkling clear pool!
Once your Shipping Container Pool has been filled and the filter is running, you will need to add chemicals to achieve the correct water balance. Shipping Container Pools strongly recommends you use a local pool technician for this initial balance to ensure safe and sanitised swimming right from the start.
Typically your pool technician will add these chemicals in carefully measured amounts:
Magnesium salt - necessary to generate chlorine gas via electrolysis in the salt cell (the chlorine gas dissolves immediately)
Hydrochloric acid - to adjust pH
Sodium bicarbonate - to buffer pH and adjust total alkalinity
Calcium chloride - to adjust water hardness
Cyanuric acid - to stabilise chlorine levels
Sodium hypochlorite - to quickly adjust chlorine level

Your technician may also add chemicals to remove dissolved metals (risk of staining) and phosphates (risk of algae growth). They will also adjust pump running cycles, chlorine output and acid output (if your system has an acid pump).
Once in balance, it's an easy task to keep your pool water in perfect condition, year after year

Electrician

You will need an electrician to ground the container, and to connect power for the sanitation, filtration, and lighting systems. A single 240VAC 10A supply is all that's needed for these three services.
If you've selected the 12kW heat pump or swim jet options, each will need its own 240VAC 15A supply. If you've chosen the 17kW heater option, this requires a hardwired 240VAC 25A circuit.

What Next?

Over the next few weeks, you will need to fine-tune your chlorine level by adjusting the sanitisation system. If your system includes an acid pump, some tuning may also be needed to find the optimum setting (initially, we suggest you set salt cell output at 50% and acid auto-dosing at 90%).
There's no easy theory to this - simply check once or twice a week with your test kit, and adjust each up or down accordingly. You may not have to adjust anything, because the factory settings, in our experience, are pretty close to the mark.
All of us here at Shipping Container Pools wish you years of fun in your Shipping Container Pool!

Thank you