



The Derwent Pool
Preparation Guide
And
Technical Specification

Preparing for the Derwent Pool Installation

The Derwent Hydrotherapy Pool has been specifically designed for hydrotherapy treatments, incorporating an integral ramp, steps and resting areas.

This pool can be positioned below, partially below or above ground. It is important to state above or below ground at the time of order as the additional supporting structure for above ground pools is added during the build process.



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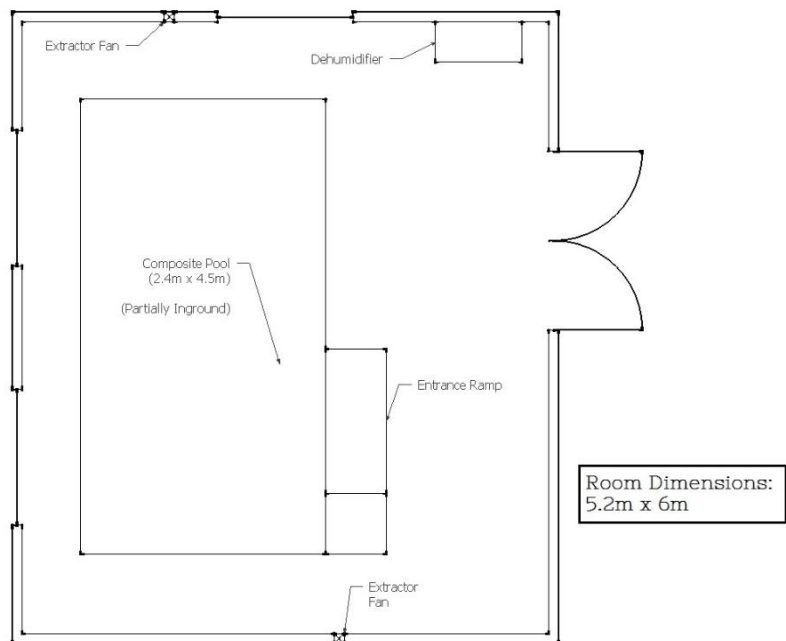
The pool arrives to you in one piece, therefore access and turning space in the building needs to be considered. If you are constructing a new building, it is best practice to place the pool in the ground prior to the walls being put up. The pool may be delivered on a lorry with a hiab, or a 4 wheel drive and trailer. It is imperative that the access is clear for the vehicle and that there is no soft ground to drive over. If there are any lawned /soft areas they must be covered with a sturdy covering such as heavy duty ply so that the vehicles do not get stuck.

Room Layout and planning

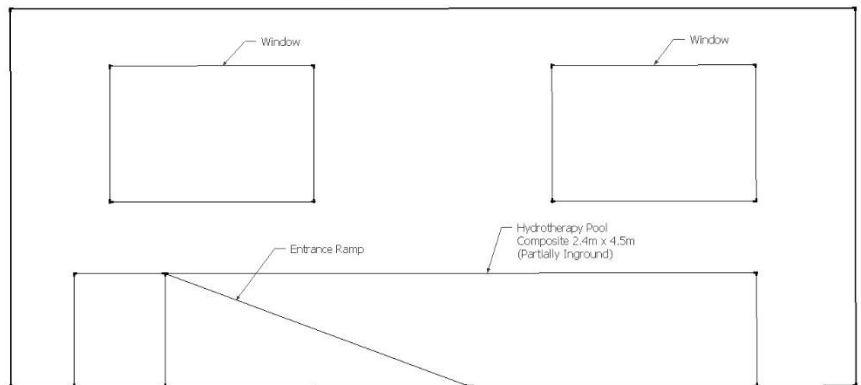
Westcoast Hydrotherapy Ltd offers a site visit and layout design service to help you choose the most suitable pool for your project. If provided with all the information we can sometimes create a floor plan to help you decide the position of the equipment and the essential pipe and cables runs without a visit.

Floor Plan Example 05

Hydrotherapy Pool (Partially Inground)



Rear View Example 05



The plant is generally built into the footprint of the pool, but access to it is required. If necessary the plant can be positioned close by in a separate area or dedicated plant room, but we would need to know at the time of ordering. Clear and daily access is needed to the plant.

The Derwent pool is not supplied with an ASHP Air Source Heat Pump to heat the pool water, this is an optional extra. If one is required this is to be positioned outside the building.

Time Frames

The production time for your pool will be approximately 8 weeks from receipt of your signed order and deposit. Delivery and installation will usually take place over two visits if the pool is going below ground and one visit for two days if the pool is being installed above ground.

Electrical Requirements (Supplied By Customer)

The pool plant requires a 20A supply to an IP65 rated rotary isolator for the engineers to connect into. It should be situated in the designated plant area. The ASHP requires a dedicated supply to a 20Amp to an IP65 rated rotary isolator, placed outside next to where the pump will be positioned.

N.B. A qualified electrician should carry this out.

Preparation for Below & Above Ground Pool Options

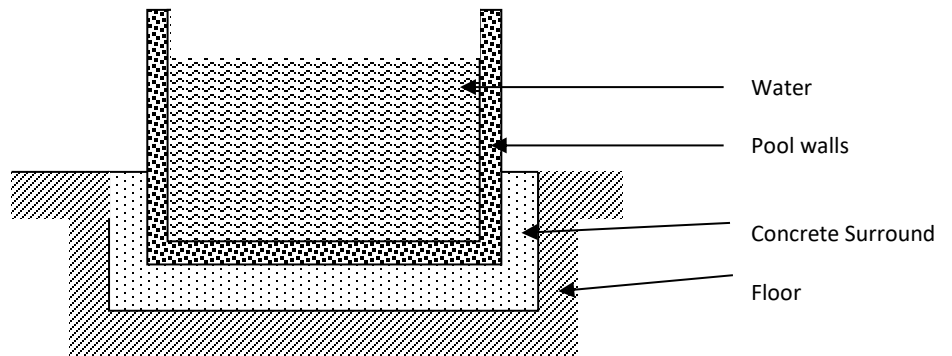
When complete the walking access around the pool should if possible be around all sides of the pool; a minimum distance of 750mm is suggested, although greater space is needed along the side that serves the external ramp. This could be about 1350-1500mm. Please note that there is no external ramp included with your pool. Westcoast will be happy to quote for an external ramp when the pool is complete and the finished floor levels are established. The external appearance of the pool shows the foam insulation, if the pool is installed above ground, an external finish/trim panel will be required, there are many fixing points on the pool to fix to. Additional building works are carried out by the customer.

Paragraphs in *italics* highlight those preparation tasks that must be carried out by the customer or the customer's builder. Take care to read only the steps that apply to the option of above or below ground you have chosen. The step-by-step procedure and guidelines for use of the Derwent Pool are as follows:

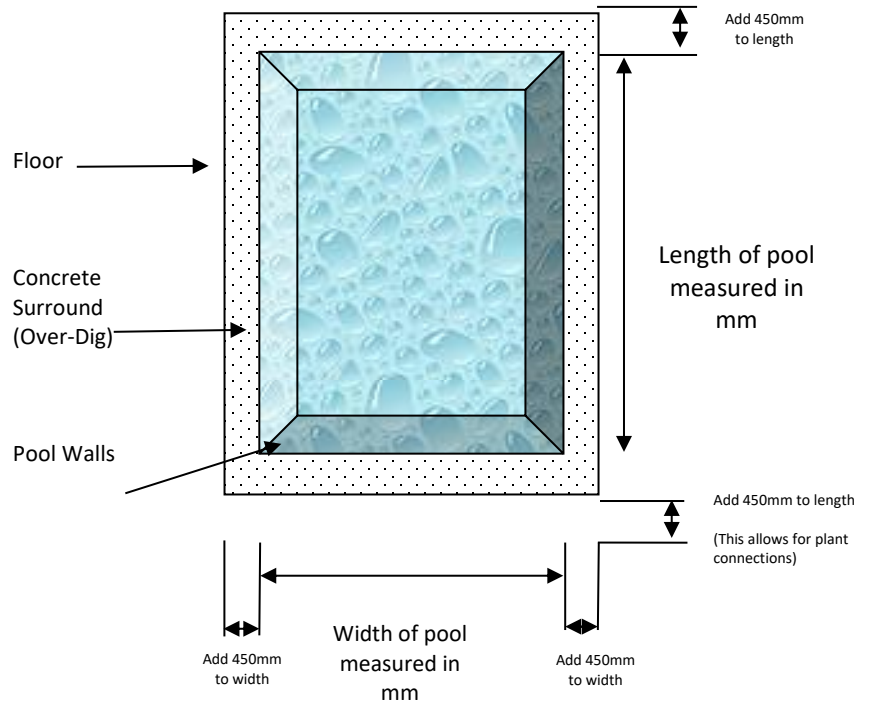
Excavation – Below Ground Option ONLY

The first task required is to mark out and excavate the hole. The size of the excavation needs to be the finished pool size plus 450-500mm in length and width, giving an 'over-dig'. The sides of the hole must be at right angles to each other, and with straight walls and a flat, level floor. The pool can be recessed into the floor at whichever height you require. For half the pool to be under ground, the hole needs to be excavated down to 675-700mm from the finished floor level. This needs careful planning beforehand. The diagram below illustrates how to calculate the size of hole required.

A 400mm deep x 300mm wide trench from the working end of the pool needs to be prepared to take the pipes and cables to the plant room and the heat pump.



Diagrams to Show Dimensions of Over-Dig



Both Below & Above Ground Options

Drainage

As part of the site preparation, provisions for drainage are required at this stage of the building works. A floor drain in the plant area is highly recommended for over-spill of pumps during daily routine maintenance and servicing, as well as drains around the pool area for cleaning and splashes from the pool. A 2" solvent weld waste water outlet is also required for emptying and back-washing sited in the plant area. N.B. As back-washing and emptying are pumped, they are therefore high pressure and a dedicated waste pipe is preferred.

Water Supply

A cold-water supply is required poolside for filling and topping up the pool. Due to the large quantity of water needed to fill the pool initially, we recommend using 22mm diameter pipe if possible.

ASHP Air Source Heat Pump (optional extra)

The ASHP should not be further than 7.5m away from the pool, ideally as close as possible.

A concrete pad is required for the heat pump to sit on outside the building.

The pad should measure: 1200mm wide x 500mm deep and 100mm in thickness.

Ensure that the finished pad allows for the heat pump to be positioned at least 800mm away from the building.

A hole should be prepared to take the pipes back to the plant area, you should allow 300mm x 200mm approximately for this. Please note the electrical requirements mentioned previously.

The heat pump can also be positioned above ground on a specially made bracket. As seen in the picture, please ask for details as the bracket needs to be specially ordered.



Flooring

The type of flooring for the pool room must be decided upon, such as a concrete surface, decking or 'Altro'-type specialist flooring, this will affect the need to screed a 'fall' to suit the drainage channels etc. Once the finished floor level is decided upon, this should be marked on a wall nearby and the pool excavation depth measured down 675-700mm to the bottom of the hole. This depth allows for a minimum of 100-125mm thickness of concrete to be laid level for the base. A minimum 100-125mm thick Gen 3 concrete base is required to cover the whole of the floor including the over-dig. It is very important that there is at least 100mm concrete over the entire base, with no low spots. This layer must be level and smooth to give full support to the pool walls once the pool is filled. A curing period of at least 48 hours must be allowed before further work is undertaken.

Installation and filling of the Derwent Pool Below Ground ONLY

Due to the volume of the pool, it will take quite a while to fill. Filling is carried out simultaneously with backfilling. The customer must have available enough sharp sand for levelling and backfilling the pool, in addition, up to 50mm of insulation such as Jablite or Celotex can be laid on top of the sand to minimize heat loss through the bottom of the pool.

Westcoast engineers with the assistance of delivery driver or crane driver will lower the pool into the prepared hole. You need to have your builder available on site to work with the Westcoast engineers to carry out the filling and backfilling.

Fill the pool to about 200mm of water, at the same time backfill the over-dig with a lean mix 8:1 sand and cement to about 200mm, continue to fill and backfill at the same rate to keep the pressure on the pool walls even on both sides. Fill to within 200-225mm of the finished floor level. Pour water onto the mix so that the mix adjusts to the pool shape. Finally a Gen3 concrete ring beam is then laid to the finished floor level around the pool, to fill up the over-dig.

The Westcoast engineers will lay their pipes to the plant room, and check the location of the heat pump etc.

Depending on the situation, the engineers will either leave the site until the walls are up and the power and water are installed. Or if the power and water are in place, they will continue to fit the plant in the plant area and install the heat pump. Depending on what we have agreed with you prior to the installation, the Westcoast engineers will be with you for two days, either consecutively or on two occasions.

Commissioning

Westcoast Engineers tend to work very long days when on site, this may mean that commissioning and handover may take place late in the day or early evening. A full demonstration of the pool care and maintenance is given at this time and will include dosing and use of the pool chemicals included in the maintenance kit. A laminated poolside checklist is supplied with the user manual as a useful reminder for daily and weekly care routines. Please be sure to ask any relevant questions of the engineers at this time and anything that is unclear can be fully explained. Documentation is now handed over and the engineer will require a signature from the customer with payment for the final balance due.

Westcoast engineers are available by telephone or email to assist you as much or as little as required.

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