

WOODEN FUN POOL



Self Build Install Instructions

**8ft & 10ft
Octagonals**

WPM010 May 2015 Edition

 **Plastica**
www.plasticapools.com

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Introduction

You are advised to read this entire manual before starting your project.

In the event of any problems please contact your dealer immediately. Warranty claims will not be entertained if there is delay in reporting a problem or these instructions have not been followed correctly.

Recommendations for Storage after Delivery

- Do not store the wood in direct sunlight or under a black cover as this will cause distortion which will make installation extremely difficult.
- Assemble the pool structure as soon as possible after receipt.
- Assemble the pool structure in one go, preferably in the morning while the temperature is cool.
- If the pool must be stored then use a cool well-ventilated place, sheltered from sun and rain. If possible keep the pool in its original packaging.
- Components that are damaged, cracked or distorted due to bad storage and/or handling on site are not covered by warranty.

In the pre-assembly period the wood is sensitive to variations in temperature and humidity. It is therefore necessary that you take the following precautions immediately after delivery.

Wood is a living material and once cut the appearance of cracks, slight movements or changes in colour are normal and the planks (except in extreme circumstances) do not need replacing. The planks will have been recently treated and may be delivered to you still moist. In case of a rapid change in temperature; these planks can dry very quickly and lose 1 or 2mm of height. This might give you the impression that they are lifting up while they are actually shrinking.

General Safety Precautions

- Your filtration kit (filter, pump and any optional heating) should be placed at least 2m from the pool shell. You may need to purchase extra pipe and fittings for this. A good option is to house this in a filter box or small garden building.
- It is important to ensure the electricity supply for the pump or any other electrical item has 30mA RCD protection and conforms to current electrical regulations.
- Never leave children unattended around the pool when completed or at any stage of construction.
- The pool is designed for domestic use. Running along the top rail, diving or jumping into the water from the edge must not be allowed under any circumstances. The pool is not suitable for the addition of diving boards.

Required Tools

There are no specialist tools required but in addition to regular hand tools the following will be useful.

- Heavy mallets for assembling walls.
- Large spirit level and set square.
- Quality battery drill with screw driver bits, drill bits and counter sink.

- Clamps for holding components.
- Large mitre block with 90 & 22½ degree slots for cutting pipes and liner lock.
- Large scissors for cutting underlay felt.

Kit Contents

Check the packing list detailing the contents. As you unpack your pool check that you have all parts required and that their condition is satisfactory.

Contact your dealer immediately if you are in any doubt or believe parts may be missing/damaged.

Safety Precautions

Use safety goggles during installation to reduce risk of eye injury.
Gloves should be worn to protect fingers.



Never leave children unattended around the pool when completed or at any stage of construction.

RISK OF DROWNING

Natural Timber Defects



Shake

Whilst we try to ensure that our timber products reach you in perfect condition, we have to remember we are dealing with a natural material and there are many defects which can arise.

These are completely normal and have no detrimental effect on the product. Below are some images and descriptions. We also manufacture our products so that most natural defects are inside to product where you wouldn't see them. The plank may be reversible, so it can be used either way around.



Pith

Shake appears like a series of splits. With a timber section of this size you will always encounter some degree of this (usually on one side). This does not affect the strength of the product and you will find the shake opens in continued warm weather and then closes up when the weather is wet and cooler or there is a lot of moisture in the air. We do manufacture our products so that most natural defects are on the inside of the product where it will not be seen.



Knot

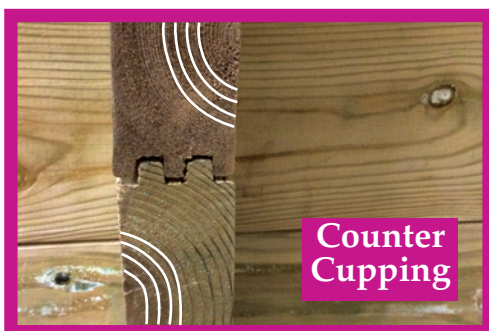
Pith is similar to the above defect and quite often found along side each other. Most of this is typically machined to be on the inside of the product.

Knots are typically found in timber as shown. These are not generally an issue and can actually be beneficial relieving stress points in timber. In many peoples opinion these add character to the products.



Cupping

Cupping is mainly caused by the treatment of the timber. When timber is kiln dried and then pressure treated it can cause cupping. Although we do our best to limit this, the best way to counteract this is as you build the walls of your product, have one plank with the growth rings facing one way and the next with the rings facing the opposite direction. This is only possible on square or rectangular products as the planks are reversible. On octagonal products if you have a problematic plank try it in another wall position to see where it will fit best.



Counter Cupping

Preparation of the Base

OPTION 1: Subsoil Base

- Although the recommended base is concrete (see Option 2 below) you may choose to construct your pool on undisturbed subsoil. You must satisfy yourself that your site conditions are suitable. If your site is wet and prone to ground water or flooding use a concrete base.
- Never construct your pool on made up ground, always dig down to undisturbed subsoil.
- Clear an area at least the size of the appropriate concrete base.
- Ensure that the cleared area is flat, level and smooth and that all vegetation has been removed.
- Ensure that all stones, sharp objects and roots are removed. Failure to prepare the ground will result in a damaged liner. Any damage caused to the liner by not using the recommended concrete base is specifically excluded from any warranty.
- Please refer to the later section Levelling the Floor (in Section C) as extra work may be required at that stage if a concrete base has not been used.

OPTION 2: Concrete Base

- The recommended minimum thickness for a concrete base is 100mm (4"). Using a steel reinforcing grid in the concrete will greatly increase its strength and is recommended. Every site is different so give due consideration to increasing this specification if you have unstable ground or any other concerns. If in doubt seek the advice of a ground working contractor or a civil engineer.
- Never construct your pool on made up ground, always dig down to undisturbed subsoil.
- The minimum size of a concrete base should be 300mm larger than the outside perimeter of your pool walls.
- Ensure that your finished concrete is absolutely level over the whole pool area. If your base is not level the pool water level will show this after filling.
- Ensure that your finished concrete is absolutely flat over the whole pool area. Any high and low areas will cause difficulties with construction and spoil the finished look of the liner floor.
- Ensure that your finished concrete is absolutely smooth. Rough concrete can damage the pool liner. The swimming pool liner and felt will not hide imperfections. Tamp lines or trowel marks will show through when the pool is filled.
- Allow your concrete to cure before assembling your pool.

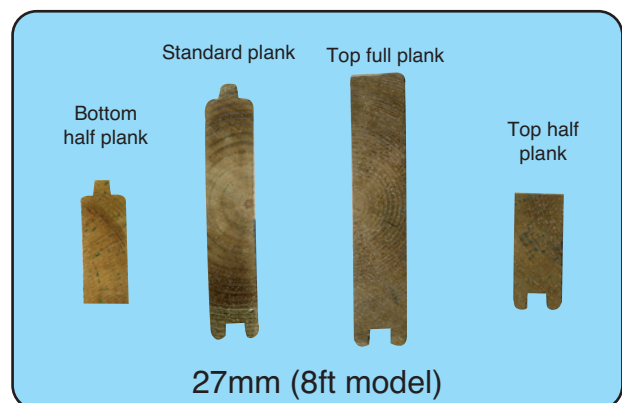
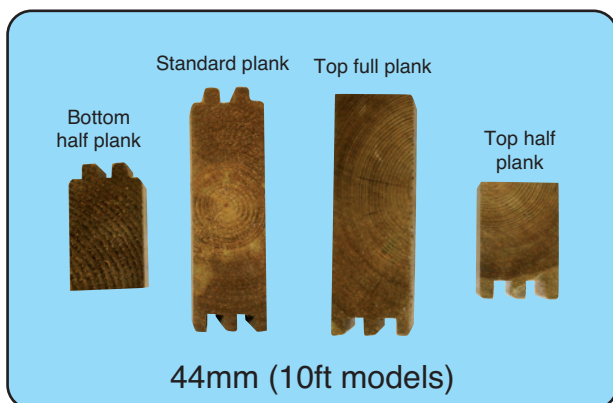
Assembly of the Shell

Decide on the Layout of your Pool

- Decide which end of the pool you would like the skimmer and return or low level suction (depending on which pool you have ordered) flow fittings. Please refer to Section D: Filtration Equipment and Pipes which will help you decide. The skimmer is best fitted facing into the prevailing wind so that floating debris is blown into the skimmer.
- If you are planning to use an underwater light decide which side to install it on. A light would usually be sited in the middle of one side and where the external wires will not appear unsightly.

Assembling the Pool Walls

- Carefully unpack the pallet of wooden planks and stack them in the middle of your pool area. Assembly will be faster if you sort the planks into their different types at this stage.
- Wooden knocking blocks are provided; these are small untreated blocks of wood which protect the pool wall planks as they are knocked together. Place the knocking block so its grooves align with the tongues of the plank being hit. Never hit a plank with mallet or hammer but always use the grooved blocks provided.
- Each plank must have 2 tongues facing upwards and 2 grooves facing downwards. This will be a single tongue and groove on 8ft/27mm model.
- Each plank must be fully tapped home along its entire length.
- If a plank is difficult to fit, first make sure no object like a small stone has become lodged in any groove.
- If a plank is still difficult to fit try it in another location.
- If a plank is warped start fitting from one end and using the tongue and groove as rails “zip” the plank down by gradually working along the length striking firmly with a mallet and the wooden knocking block. Using a clamp may be helpful.
- Do not start a new layer of planks without making sure every preceding plank is full interlinked.
- Below are two photos showing each wall section plank for both the 10ft and 8ft model.



- Find the 4 bottom half planks that have a flat under side and two tongues facing upwards. Place these flat side down as shown below.



- Using 4 standard planks you can now form the first layer of the pool walls. The 45 degree interlocking slot at each plank end will form the shape of your pool.



- Fit the next layer of planks so each side has two layers.
- Continue to fit layers of planks.



- Choose the position for your filtration wall carefully.
- **8ft Models Only:** There is no skimmer plank. You will be provided with an inlet and low level suction plank which has two holes. Install this on the 3rd full plank from the bottom.



- **10ft Models Only:** Install the inlet plank as the third full plank up (on 3ft depth pools this should be the second full plank above the bottom half plank).
- The flower shaped cutout should be on the inside of the pool.
- Continue to build up the walls checking alignment.
- Using all the standard planks, firmly tapping them into place and checking for level as you go.
- **10ft models only:** For 4ft depth pools, insert the lower skimmer plank on the 8th layer (same wall as the inlet).
- **10ft models only:** For 3ft depth pools, the lower skimmer plank should be on the 5th full plank up on the wall which starts with a bottom half plank (same wall as the inlet).



- At this point hang the skimmer as shown before you continue installing planks.



- Finish off the wall structure using the top half planks as shown on page 6.



- The next stage is to insert your top full planks and upper skimmer plank. These have two grooves and a flat top as shown on page 6.



- When all the walls of your product are built the structure should look like above.

Installing the Top Shelving (10ft models)

- The pool is supplied with nine shelving brackets. Carefully mark the centre of each wall and either side of the skimmer on the top of the pool wall. Using the 5mm x 70mm screws provided fix the top shelving brackets to the outside of the pool wall. These will provide support for the top shelving. Use two screws per shelving bracket (it may be necessary to pilot drill the wall).



Installing the Top Shelving (8ft models)

- You will be supplied with eight pre-cut shelving supports which will run along the outside perimeter of the pool. These have 45 degree cuts at each end. Position them so that the point of the 45 degree cut is tucked inside the overhang of the pool wall on the outside of the structure as shown below.
- Fix into place using 5mm x 70mm screws provided. These are screwed through the inside of the pool wall into the shelving supports.



Installing the Top Shelving (all models)

- Carefully work your way around the perimeter of the pool, positioning your top shelving. Take your time to get the overhang even on all sides. Please note that the bevelled mitres indicate the top side of the shelving.
- Once you are satisfied with the position, use the screws provided to fix the top shelving in place. For best results use a countersink drill bit to achieve a flush finish.
- Generally one screw should be fixed into the top of the pool wall and a second screw into the shelving support/bracket at each fixing point.
- If you are installing an 8ft model please use the 50mm screws provided to fix the top shelving down.



Fixing the Skimmer to the Wall (10ft models only)

- Pre-drill the skimmer in the four corners. Use the 3.5mm x 20mm panhead screws provided in the fixing kit and fix the skimmer into place as shown.



Fixing the Return (10ft models)

- Use the two 3.5mm x 20mm countersunk screws provided in the fixing kit to secure the return fitting on the inside of the pool as shown.



Fixing the Return Low Level Suction (8ft models)

- On the 8ft model there is no skimmer. Instead you have a plank with two holes that is used for the return and low level suction.
- Use the 3.5mm x 20mm countersunk screws provided in the fixing kit to secure the return and low level suction fitting on the inside of the pool.



Gaskets

- **IMPORTANT:** Do not fully insert any screws into the pool fittings at this stage as you may strip the thread before installing the faceplate and liner.
- Position the self adhesive gaskets carefully and stick into place.
- With an inlet/low level suction use two screws provided with the product.
- Partially insert a screw at the top and bottom positions of the fitting. Ensure the cross head of the screws finish in the North, East, South and West position. This will help with the installation of the liner later on.
- For the skimmer, position the self adhesive gasket carefully into location using four screws supplied with the product. Partially insert the screws in the four corners of the skimmer. Ensure the cross heads of the screws finish in the North, East, South and West position as shown.



Fitting the Linerlock

- You will be supplied with a white plastic profile called Linerlock. This is fitted at the top of the wall under the top shelving as shown. You can mitre the Linerlock at each corner of the pool, but this is not essential as you can cut a straight edge and butt the two pieces of Linerlock together. This will not be seen once the liner is installed.
- The important key points when fitting the Linerlock are that you carefully line up the slots which accept the liner and you use the stainless steel screws provided in the fixings kit, spaced approximately every 300mm.
- To make installation easier pre-drill the screw positions in the Linerlock using a 3mm drill bit.
- Once you have the Linerlock fitted, use some of the clipper tape provided to cover any sharp edges such as knots and corners within the pool structure to protect your liner. Mechanical damage to your liner is not covered by your warranty.



Fitting the Felt Underlay

- Using a sharp pair of scissors cut the felt to suit the shape of the pool floor.
- Use the clipper tape to cover any joins in felt.



Installing the Liner

- Prior to fitting your liner, ensure the following: The liner has been stored in a warm environment and that you have carefully examined and removed any sharp objects from inside the pool area. When installing the liner wear socks to protect the liner from any damage caused by footwear.
- Start to position the liner at a bottom corner of the pool. Make sure each corner floor weld of the liner corresponds with the corners of the pool.
- Work your way around the pool inserting the beaded edge of the liner into the Linerlock.



- Use your feet to move any creases in the liner from the middle of the floor to the outside edges.



- When you have done this you can begin to fill the pool with water.

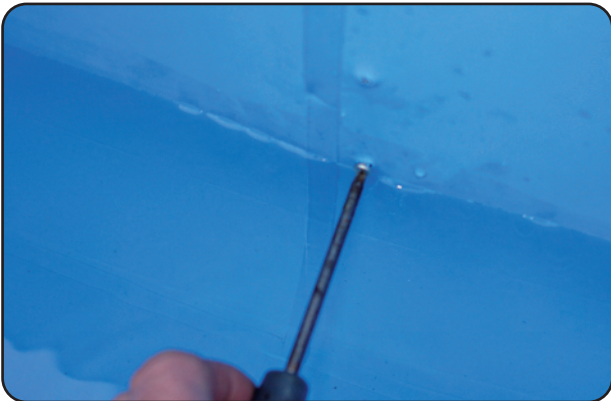
- Once you have approximately three inches of water in the pool, get into the pool bare foot and work out any remaining creases in the pool floor by pushing them with your foot from the middle of the pool to the outside.
- Continue to fill the pool until you are an inch below the inlet/low level suction fittings.
- You may have noticed that the liner seemed too small to begin with, but with the pressure of the water it will stretch into place.



- At this stage you may wish to install your linerlock wedge. Start in one corner and work your way around the perimeter using reasonable pressure to push it in using your thumbs.



- **IMPORTANT:** Proceed with extreme caution when cutting the liner.
- The two screws which you left in the top and bottom of the inlet/low level suction fitting(s) need to be located through the liner. To do this carefully feel for them and cut a small cross hair with a knife (remembering that the crosshairs are in North, East, South and West positions). Do not cut the whole width of the screw head. Gently ease the screws through the small incision.



- Now locate the faceplate and attach gasket for the inlet low level suction fitting.



- Using the two screw positions already exposed, undo the top screw and attach the faceplate at the top. The faceplate will swing down into the correct position to line up with the bottom screw. Undo and attach bottom screw through faceplate.
- Now fix the left and right screws (supplied with fitting) knowing they will be in the correct position.
- Use a handheld screwdriver (not cordless) so that you can tighten the faceplate screws without damaging the screw holes.



- Carefully cut the fitting (below)



- Screw on the relevant fixed grill for a low level suction or directional eyeball for a return inlet.



- Screw on the relevant fixed grill for a low level suction or directional eyeball for a return inlet.



- Using the PTFE tape supplied, insert a hosetail fitting to the rear of the low level suction / return (and skimmer if supplied).



- Skimmer and return fitting as on 10ft pool below.



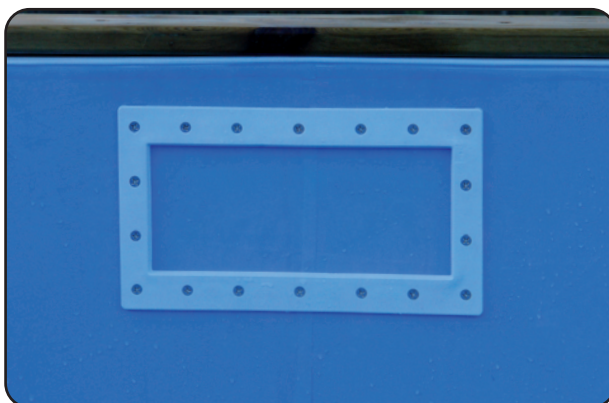
- You can now connect the standard cartridge filter supplied with your pool.
- If you have upgraded to a sand filter, please refer to the upgrade instructions at the back of this manual (page 17).



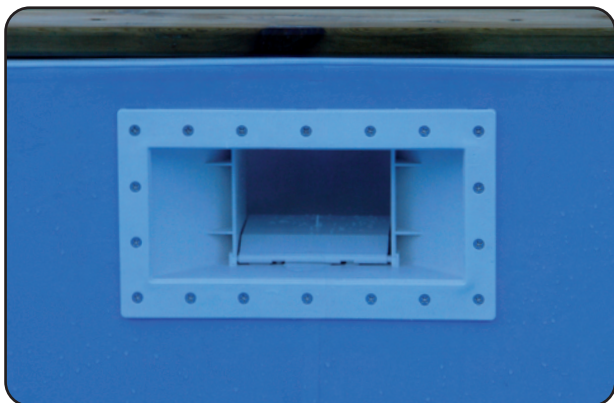
- Continue to fill the pool until the water level is approximately 50mm from bottom of the skimmer.
- Using the same method as for the low level suction / return, locate your screws in the four corners of the skimmer. Carefully cut the crosshairs of the screws, remembering North, South, East and West positions. Ease the screws through a small incision in the liner.



- Using the screw positions in the four corners will help you align the faceplate for the skimmer. Do not forget to stick the gasket supplied on the rear of the faceplate.
- When you have tightened the four screws in the corners, continue fixing the rest of the screws using a handheld screwdriver (not cordless).



- Carefully cut out the excess liner material from inside the skimmer faceplate to reveal the skimmer.



- When this has been done you can clip the cover plate on, as shown below.



Krystal Klear Filter Upgrade



- If you have purchased a sand filter, you will need to install it at the point where the water level is just below the low level suction/return.
- Assemble the sand filter as per the manufacturers instructions.



- You will be provided with a pack of fittings labelled IPK100. These are connected to the white fittings (ie. skimmer, low level suction) supplied with your pool.
- Using PTFE tape insert the 1.5" thread into the pool fittings.
- Then connect the hose from the sand filter (pump end) to the skimmer/low level suction and the filter end to the return inlet.
- It may be necessary to put a bead of silicone on the back edge of the two inch thread on the IPK100 fitting.
- You can now continue to fill your pool.
- Read the manual supplied with the sand filter for safe installation and operation of the product.

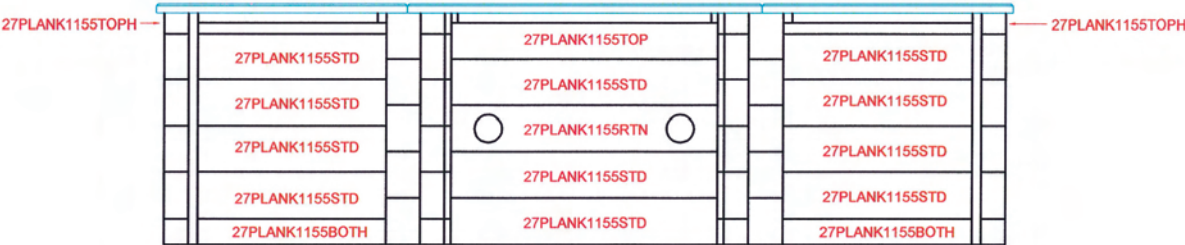
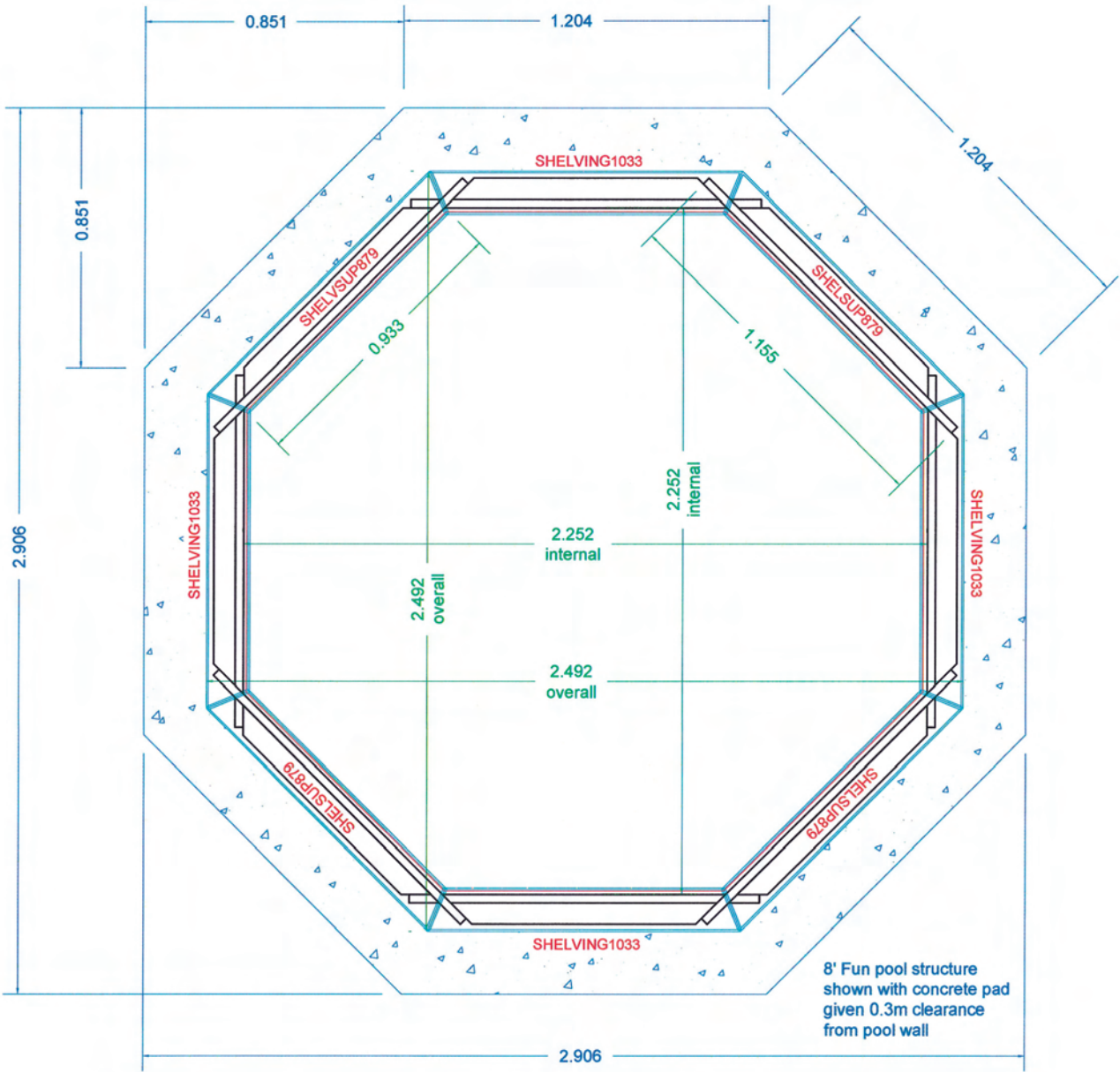


Nano Plug & Play Heater Upgrade

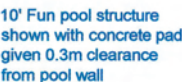


- If you have purchased a Nano Plug & Play Heater, consult your dealer for advice on rigid pipework and fittings. Many heaters are used in conjunction with ball valves etc for easy maintenance.
- Your dealer should be able to advise you on additional pool fittings needed.
- **IMPORTANT:** Please ensure you read the manual supplied with the heater for safe installation and operation of the product.

8' Funpool Structure – 5 boards high (0.668m deep)



(0.877m deep)



(1.204m deep)

