

HAND CRAFTED » DIRECT DELIVERY » UP TO 10 METRES » EXERCISE POOLS » ALL THE EXTRAS

 *Plastica*



# FUN

## Wooden Swimming Pools



# self-build instructions

## 10ft Octagonals

[www.woodenpools.net](http://www.woodenpools.net)



## Please Note

### Amendment to instructions:

The inlet and gasket supplied in the above ground skimmer **KIT ENS110** have been replaced.

**PLEASE DO NOT USE THESE PARTS**

Please use the extra inlet as per the instructions supplied with this part, **HD53L: 1.5in Liner Eyeball inlet (No backnut)**

Please use the extra 2 gaskets supplied, **ENS117: Gasket for ENS110 skimmer**

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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 invalidated 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 & 22.5 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.



### **RISK OF DROWNING**

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

# TOTAL OR PARTIAL IN-GROUND INSTALLATION

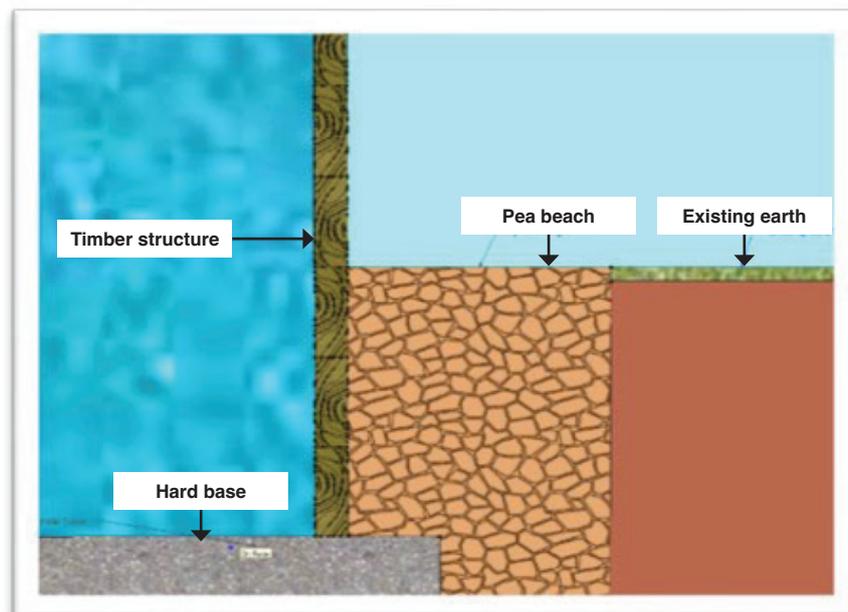
These timber products can be installed above ground, partially in or fully in ground. However, if you do have your product fully or partially in ground you will need to ensure that there is adequate drainage so that the timbers are not permanently submerged in water. Use an adequate amount of pea beach around the structure if possible, with a run off to a soak away or similar, so that water cannot build up around the structure and rot the timbers. If an adequate amount of drainage in the form of pea shingle or similar has not been used, this may affect the warranty.

This product has been treated with ACQ which is child play friendly and is warrantied against rot and insect attack (10 years on 44mm wood and 5 years on 27mm wood).

However, if this product is being installed completely or partially below ground level, you will need to install adequate drainage around the pool. We recommend

300- 450mm width of pea beach, all the way around the product. Never use a plastic membrane around the outside of product as this will accelerate any deterioration of a timber product.

The timbers are treated for ground contact only and are not to be submerged permanently in water. Please also note that any modification to a wooden structure including drilling or cutting of a wall plank will void the warranty on any plank which is affected. As a precaution if you do require to modify a plank, we suggest that you treat the cut area with a good quality timber preservative if below ground level. Ensure any treatment does not come into contact with the liner.



## Warranty

Please register your purchase at [www.woodenpools.net/warranty-registration](http://www.woodenpools.net/warranty-registration) for your warranty to be valid.

# NATURAL TIMBER CHARACTERISTICS

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 characteristics which can arise.

These are completely normal and have no detrimental effect on the product. We also manufacture our products so that most natural defects are on the inside where you will not see them. Or the plank may be reversible, so it can be used either way around.



**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 if there is a lot of moisture in the air.



**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 some people's opinion these add character to the product.



**Cupping** is mainly caused by the treatment of the timber. Where timber is kiln dried and then pressure treated it can cause cupping. Although we do limit this, the best way for you to counteract it 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 way (counter cupping). 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.



# PREPARATION OF THE BASE

## OPTION 1: SUBSOIL BASE

- 1 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.
- 2 Never construct your pool on made up ground, always dig down to undisturbed subsoil.
- 3 Clear an area at least the size of the appropriate concrete base.
- 4 Ensure that the cleared area is flat, level and smooth and that all vegetation has been removed.
- 5 Ensure that all stones, sharp objects and roots are removed. Failure to prepare the ground may result in a damaged liner. Any damage caused to the liner by not using the recommended concrete base is specifically excluded from any warranty.
- 6 Please refer to the later section Levelling the Floor as extra work may be required at that stage if a concrete base has not been used.

## OPTION 2: CONCRETE BASE

- 1 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.
- 2 Never construct your pool on made up ground, always dig down to undisturbed subsoil.  
The minimum size of a concrete base should be 300mm (11.8") larger than the outside perimeter of your pool walls.
- 3 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.
- 4 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.
- 5 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.
- 6 Allow your concrete to cure before assembling your pool.

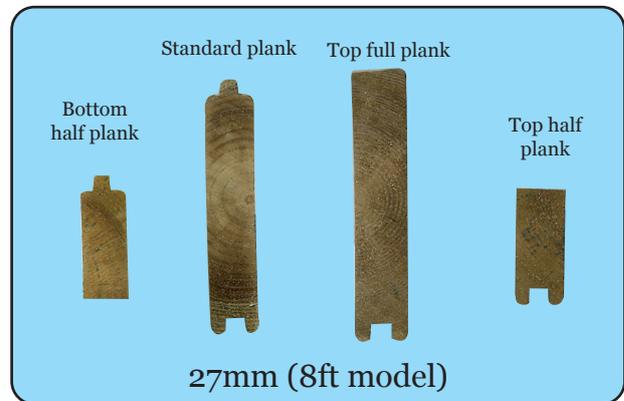
# ASSEMBLY OF THE SHELL

## DECIDE ON THE LAYOUT OF YOUR POOL

- 1 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. 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.
- 2 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

- 1 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.
- 2 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.
- 3 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.
- 4 Each plank must be fully tapped home along its entire length.
- 5 If a plank is difficult to fit, first make sure no object like a small stone has become lodged in any groove.
- 6 If a plank is still difficult to fit try it in another location.
- 7 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.
- 8 Do not start a new layer of planks without making sure every preceding plank is full interlinked.
- 9 Below are two photos showing each wall section plank for both the 10ft (305cm) and 8ft (244cm) model.



- 10 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.



**Note:** Please refer to your laminate for exact layout. Configuration of bottom half planks can change between model.



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



- 12 Fit the next layer of planks so each side has 2 layers.

- 13 Continue to fit layers of planks.  
 14 Choose the position for your filtration wall carefully.  
 15 **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.



- 16 **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).  
 17 The flower shaped cutout should be on the inside of the pool.  
 18 Continue to build up the walls checking alignment.  
 19 Using all the standard planks, firmly tapping them into place and checking for level as you go.  
 20 **10ft models only:** For 4ft depth pools, insert the lower skimmer plank on the 8th layer (same wall as the inlet).  
 21 **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).



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



**24** Finish off the wall structure using the top half planks as shown on page 8.



**23** 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 8.



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

## INSTALLING THE TOP SHELVING (10FT MODELS)

**1** The pool is supplied with 9 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 2 screws per shelving bracket (it may be necessary to pilot drill the wall).



# INSTALLING THE TOP SHELVING (8FT MODELS)

- 1 You will be supplied with 8 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.
- 2 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)

- 1 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.
- 2 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.
- 3 Generally 1 screw should be fixed into the top of the pool wall and a second screw into the shelving support/bracket at each fixing point.
- 4 If you are installing an 8ft model please use the 50mm screws provided to fix the top shelving down.



## FITTING THE SKIMMER TO THE WALL (10FT MODELS ONLY)

- 1 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.



## FITTING THE RETURN (10FT MODELS)

- 1 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.



## FITTING THE RETURN LOW LEVEL SUCTION (8FT MODELS)

- 1 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.
- 2 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

- 1 **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.
- 2 Position the self adhesive gaskets carefully and stick into place.
- 3 With an inlet/low level suction use 2 screws provided with the product.
- 4 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.
- 5 For the skimmer, position the self adhesive gasket carefully into location using 4 screws supplied with the product. Partially insert the screws in the 4 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

- 1 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 2 pieces of Linerlock together. This will not be seen once the liner is installed.
- 2 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.
- 3 To make installation easier pre-drill the screw positions in the Linerlock using a 3mm drill bit.
- 4 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

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

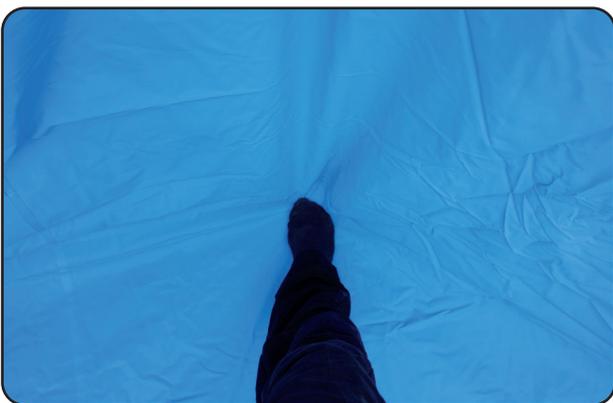


# INSTALLING THE LINER

- 1 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.
- 2 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.
- 3 Work your way around the pool inserting the beaded edge of the liner into the Linerlock.
- 6 Once you have approximately 3 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.
- 7 Continue to fill the pool until you are an inch below the inlet/low level suction fittings.
- 8 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.



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



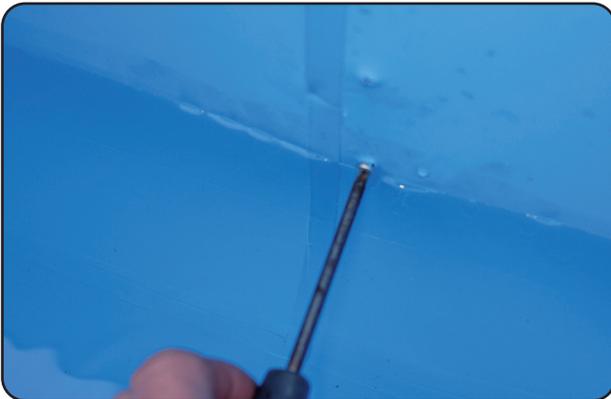
- 5 When you have done this you can begin to fill the pool with water.

- 9 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.



**10** IMPORTANT: Proceed with extreme caution when cutting the liner.

**11** 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 screwholes are in North, East, South and West position). Do not cut the whole width of the screw head. Gently ease the screws through the small incision.



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



**13** 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 the bottom screw through faceplate.

**14** Now fix the left and right screws (supplied with fitting) knowing they will be in the correct position.

**15** Use a handheld screwdriver (not cordless) so that you can tighten the faceplate screws without damaging the screw holes.



**16** Carefully cut the fitting (below).



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



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



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



- 20 Pictured below is the skimmer and return fitting as on 10ft pool.



- 21 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 18).



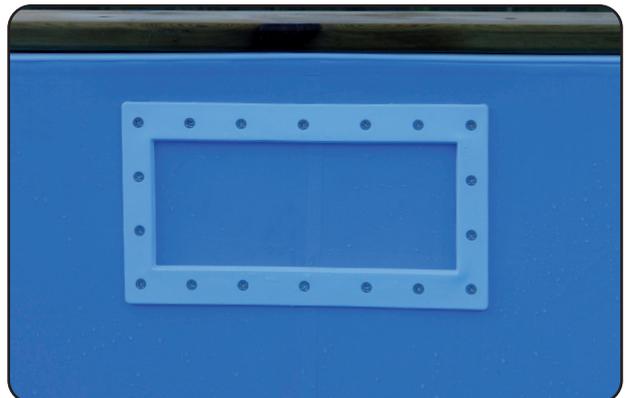
- 22 Continue to fill the pool until the water level is approximately 50mm from bottom of the skimmer.

- 23 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.

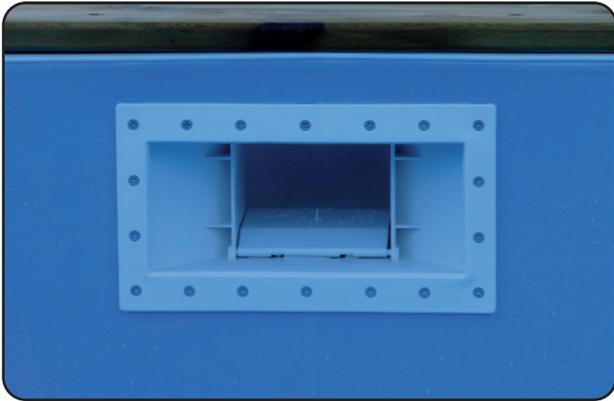


- 24 Using the screw positions in the 4 corners will help you align the faceplate for the skimmer. Do not forget to stick the gasket supplied on the rear of the faceplate.

- 25 When you have tightened the 4 screws in the corners, continue fixing the rest of the screws using a handheld screwdriver (not cordless).



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



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



# KRYSTAL KLEAR FILTER UPGRADE



- 1 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.
- 2 Assemble the sand filter as per the manufacturers instructions.
- 3 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.
- 4 Using PTFE tape insert the 1.5" thread into the pool fittings.
- 5 Then connect the hose from the sand filter (pump end) to the skimmer/low level suction and the filter end to the return inlet.
- 6 Use the O-Rings provided to create a seal between the flexible hoses and IPK100 fittings on the pool.
- 7 You can now continue to fill your pool.
- 8 Read the manual supplied with the sand filter for safe installation and operation of the product.



# NANO PLUG & PLAY HEATER UPGRADE



- 1 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.
- 2 Your dealer should be able to advise you on additional pool fittings needed.
- 3 **IMPORTANT:** Please ensure you read the manual supplied with the heater for safe installation and operation of the product.



# Wooden Pool Warranty

*Plastica give a 10 year parts only warranty to the timber structure against wood rot and insect infestation*

Timber Structure .....	10 years
Liner .....	5 years
Top Deck .....	1 year
Pump .....	1 year
Filter .....	1 year

### Terms of Warranty on Wooden Pool Structure:

*The warranty duration on the wooden pool structure is 10 years on a pro-rata basis, reducing by 10% per annum.*

*eg. after 3 years the warranty covers 70% of any valid claim.*

*The warranty covers the 44mm timber structure from insect attack and rotting. This applies to the damaged wall planks only, providing they are returned to our St Leonards factory at the consumers cost and risk. Any replacements will be arranged in accordance with the above warranty with free of charge delivery back to site (UK mainland only).*

### Terms of Warranty:

- 1. We will need to see the original proof of purchase.*
- 2. The pool must be installed in accordance with the installation instructions and remain in its original installation location.*
- 3. Wood is a natural product and movement and discolouration can be expected. Plastica Ltd accept no liability for any such issues that may arise.*
- 4. This warranty is between Plastica Ltd and the original purchaser and is not transferable.*
- 5. Plastica Ltd accepts no liability for any consequential loss.*

### Structure Warranty

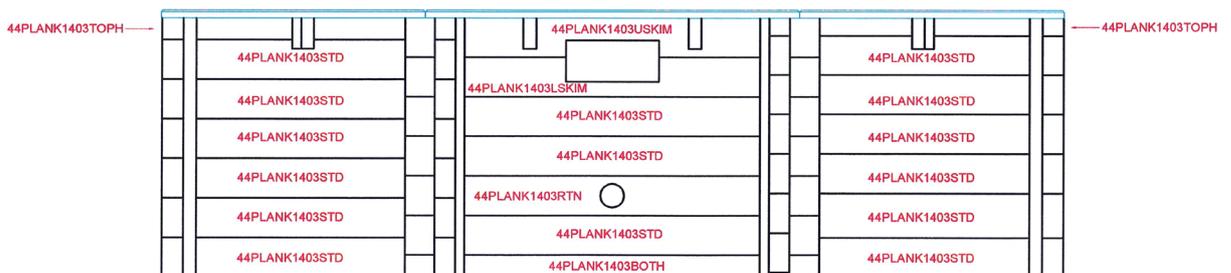
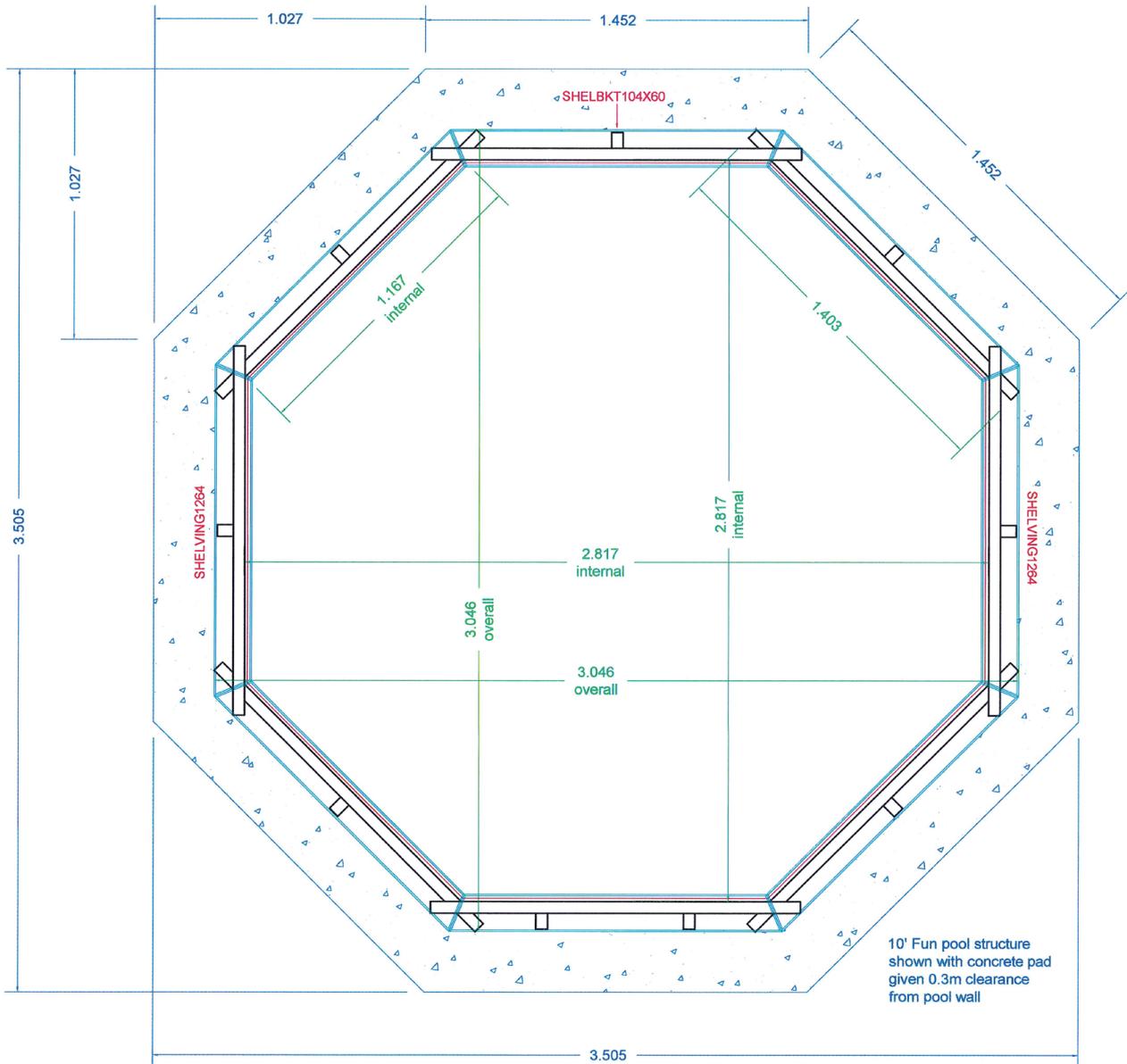
0 to 12 months	100%
13 to 24 months	90%
25 to 36 months	80%
37 to 48 months	70%
49 to 60 months	60%
61 to 72 months	50%
73 to 84 months	40%
85 to 96 months	30%
97 to 108 months	20%
109 to 120 months	10%

### Liner Warranty

0 to 12 months	100%
13 to 24 months	80%
25 to 36 months	60%
37 to 48 months	40%
49 to 60 months	20%

# 10FT FUNPOOL STRUCTURE – 6.5 BOARDS HIGH

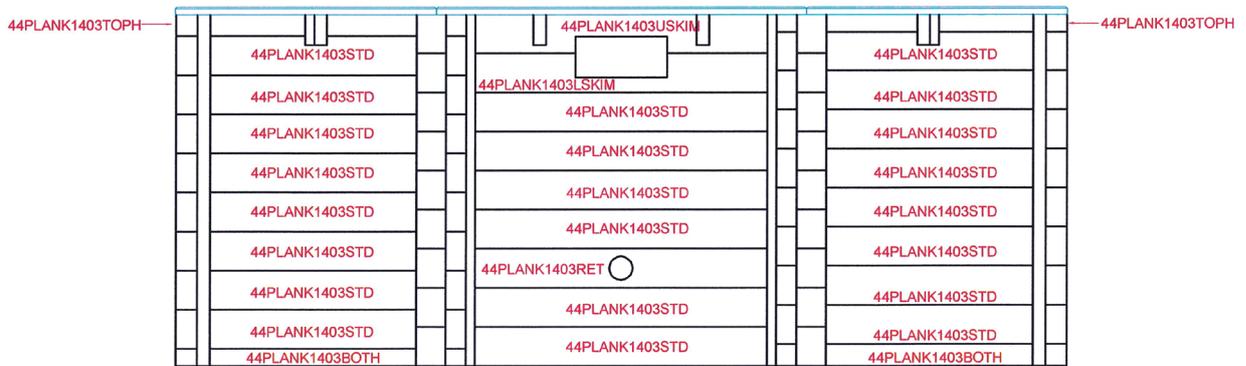
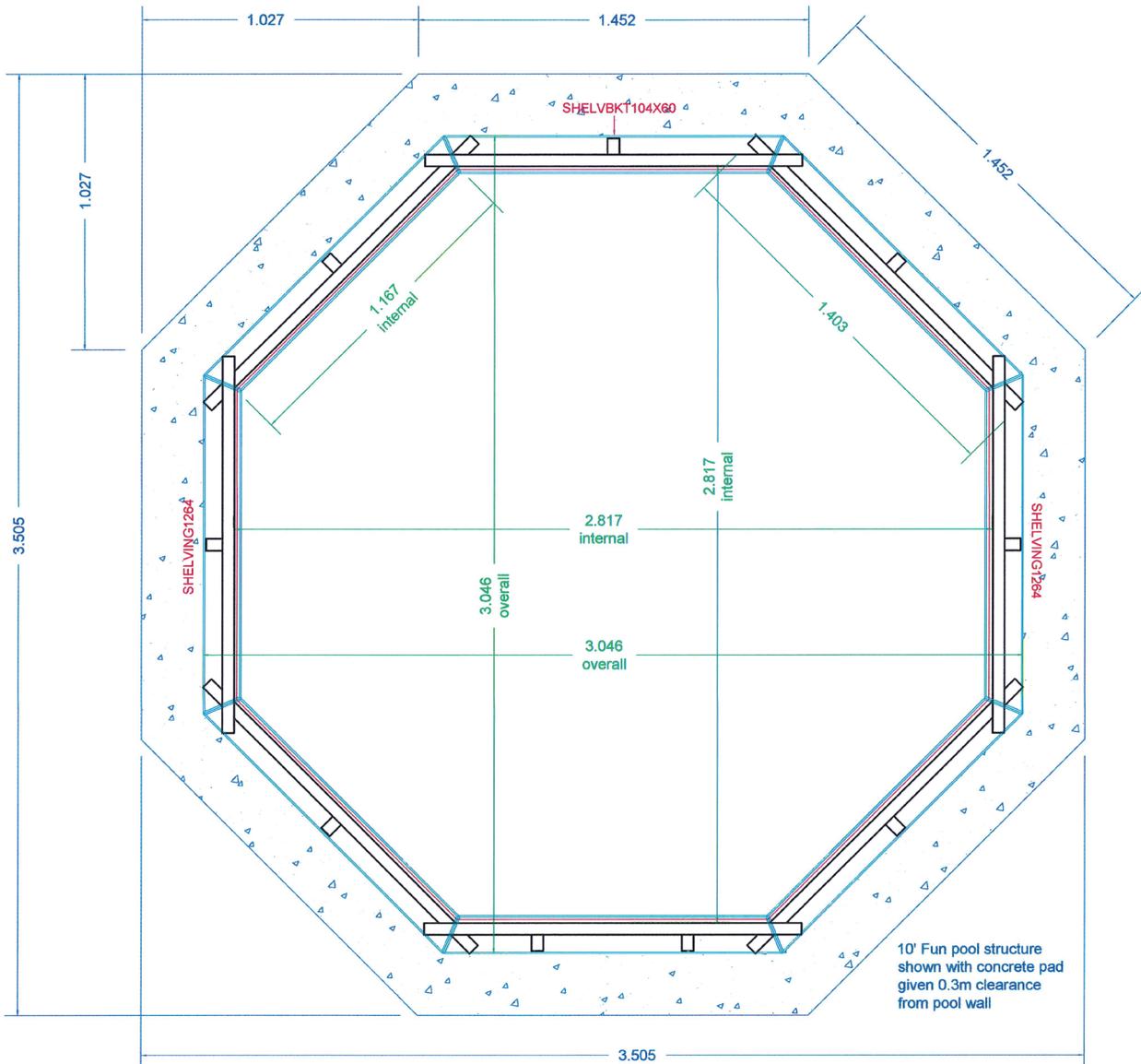
(0.877m deep)



Filtration Wall

# 10FT FUNPOOL STRUCTURE – 9 BOARDS HIGH

(1.204m deep)



Filtration Wall





 **Plastica**



**FUN**  
Wooden Swimming Pools

*Don't Forget....*

*to register your new  
Wooden Pool warranty  
online to validate it!*



[www.woodenpools.net/warranty-registration](http://www.woodenpools.net/warranty-registration)

## WHAT ABOUT US?

Plastica is the UK's leading independent swimming pool manufacturer. Our state of the art 13,000 square metre factory is in St Leonards-on-Sea in East Sussex.

As well as wooden pools, we produce pool liners, solar, heat retention and debris covers, water treatments, stainless steel

reel systems, ladders and other accessories. We also sell a wide variety of wholesale products from established suppliers.

Our reputation for high quality, competitively priced products is based on our knowledge and understanding of the wet leisure market and our friendly, helpful staff.

 **Plastica**

**The UK's Leading Independent Swimming Pool Manufacturer and Distributor**

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