

Installation Instructions

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE YOU START!

Your Sunsoka pool has been designed to give you years of trouble free enjoyment. The key to a long lasting installation is to ensure that the base, drainage areas and general construction are correctly undertaken. Please read these instructions before commencing any work.

Use the enclosed checklist to ensure all parts have been delivered correctly (see page 8 – Note 8).

In general: The Sunsoka Pool is designed to be a 'Self Build' structure, however, it is important that;

Any electrical equipment used in and around this pool MUST be installed by a Qualified Electrical engineer & be compliant to the current I.E.E. regulations.

Note: You may need to excavate a suitable (600mm deep) trench to house the appropriate armoured - electrical cable. (See layout diagrams later in this manual).

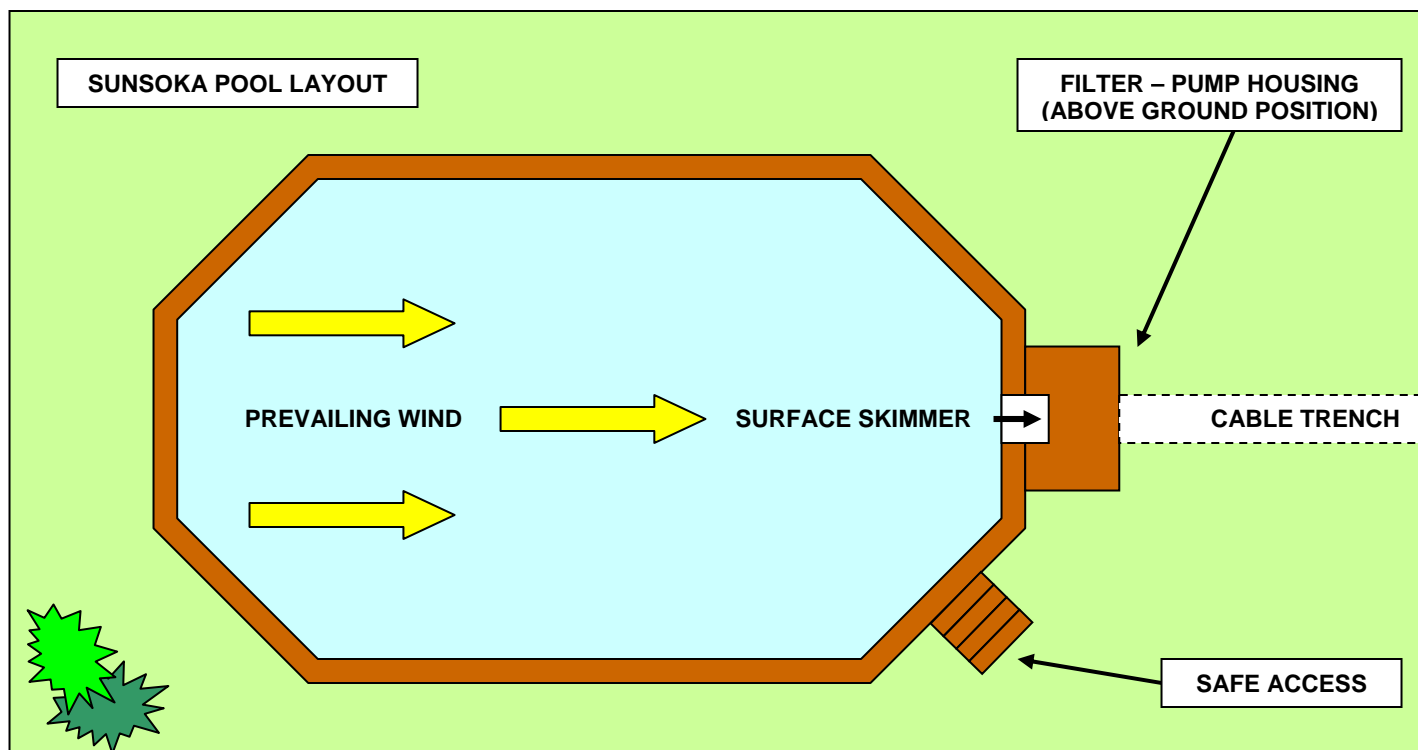
1. POSITION OF YOUR SUNSOKA POOL (UNDERGROUND HAZARDS).

Before you decide on the exact position of your pool you need to ensure against the following: Make sure there are no underground pipes or services (gas - water or drainage), electrical cables, wires, large tree roots, major rocky outcrops, underground structures or existing soak-a-ways. If the area where you intend to install the pool has a high water table or is liable to flooding, it may be wise to install your Sunsoka Pool above ground level only. (Consult your dealer). If you intend to install your Sunsoka pool either partially or completely in-ground, you will need to provide additional space for the filter & pump equipment and a separate area for adequate drainage & soak-away (see page 5).

NOTE: The soak-a-way for your pool must be at least 5 metres away from any existing building.

LOCATION OF YOUR SUNSOKA POOL (SURFACE HAZARDS)

You will need to prepare a completely level and firm area for erecting your Sunsoka Pool. If possible try to keep the pool away from overhanging tree branches as this will reduce the possibility of leaves blowing into the pool. It is preferable to site the skimmer with the mouth facing into the prevailing wind, as any leaves dropping into the pool will be blown towards the skimmer, thus reducing maintenance for you. Ensure you have left sufficient room for entering/exiting and maintaining the surrounds of the pool.

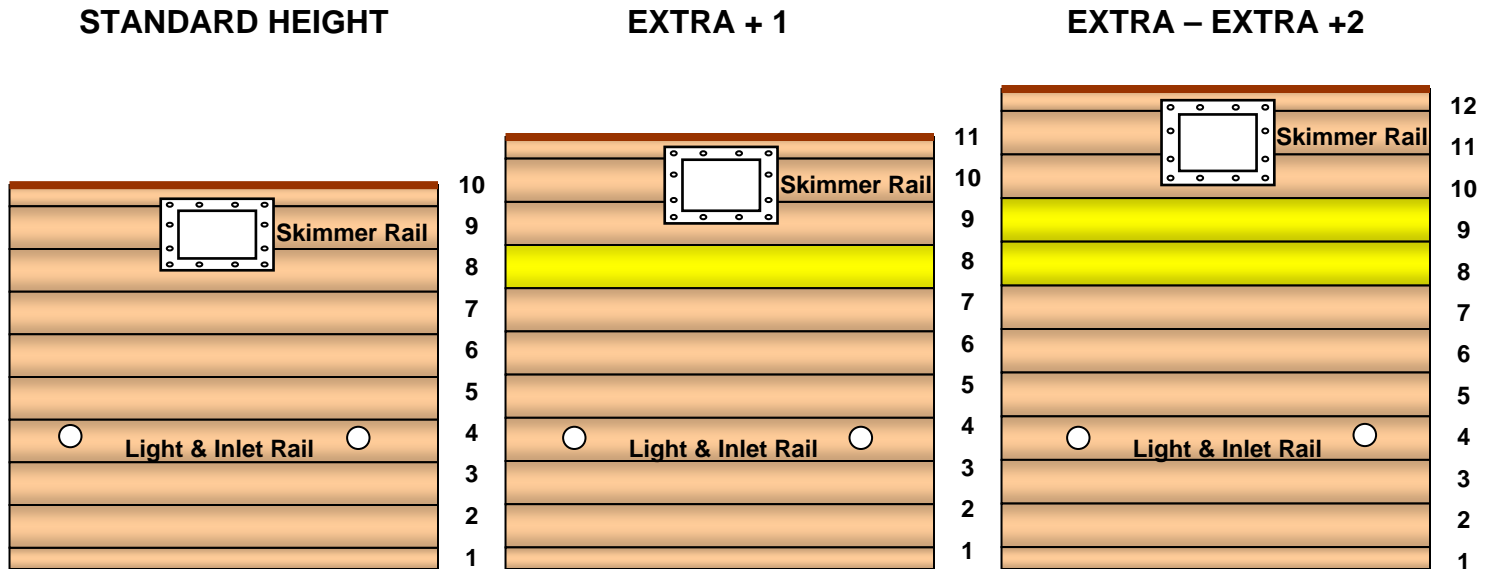


2. HEIGHT OF YOUR SUNSOKA POOL WALL

This should be decided prior to ordering your Sunsoka Pool.

As standard the height of the Sunsoka Pool wall is 1250mm and will provide a water depth of 1050mm. The standard pool height can be increased by inserting extra timber rails (inserted as shown below). Each rail will increase the water depth by 125mm and this should be decided when purchasing the pool from your dealer giving due consideration to the height and ability of the bathers who might use the pool on completion.

NOTE: Extra rails can be added after purchase, but you will need to replace the standard liner.



NOTE: Always start wall construction (at filter pump area) using the 75mm (narrow) Ground Rail first!

POOL GROUND HEIGHT & SAFETY

Your Sunsoka pool is designed to be installed either as an above ground, in-ground or partially in-ground installation. When planning your pool you must consider all elements of safety and in particular the risk posed by young children and/or animals. If installed completely above ground, the pool wall will act as a natural barrier against children or animals from accidentally falling in the pool. You may also consider the possibility of leaves and debris that may blow into the pool and if this is likely, we would recommend that your Sunsoka pool is installed either above ground, or only partially in-ground (see diagrams on page 3).

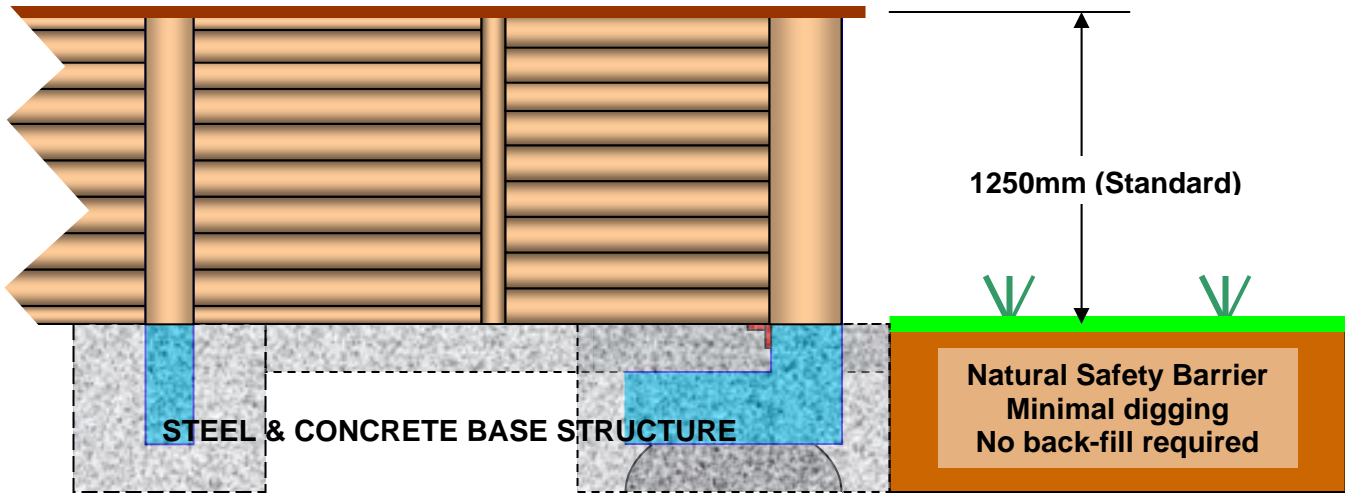
When considering the height of your pool you should bear in mind that the deeper you dig, the more spoils there will be to clear away. Note: Soil when dug will double in volume and in most cases this will need to be carted away, so ensure that adequate access is available.

CONCRETE & REINFORCEMENT BEAMS

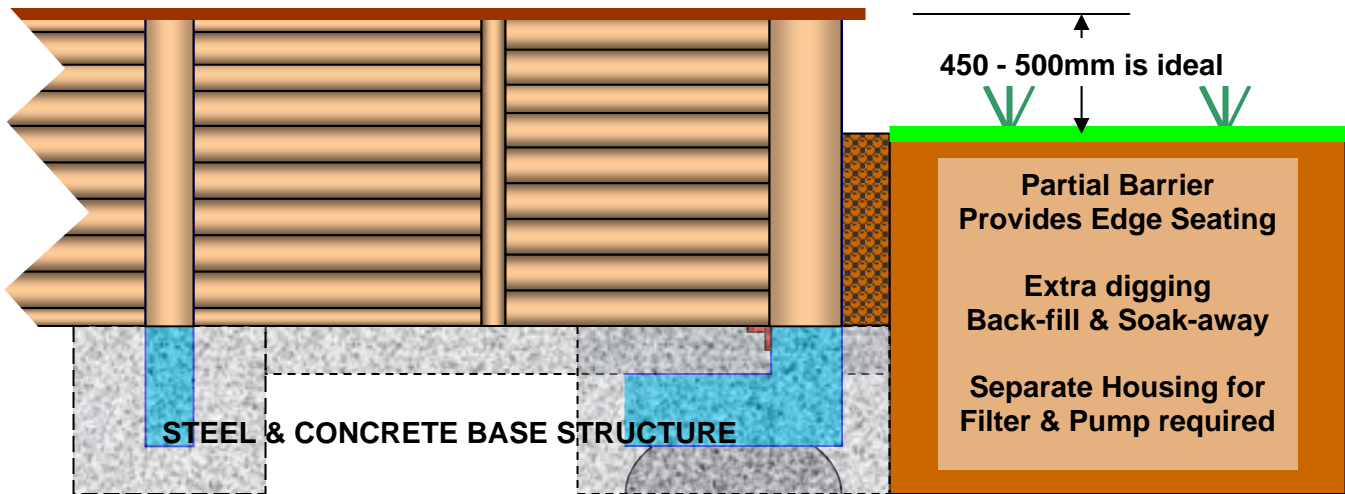
Sunsoka pool sizes 1818, 2418 & 2424 (due to their size & volume of water) do not require steel cross bracings and it may be possible to install these pools onto a flat level base with a 50mm supporting bed of sharp sand. However sizes: 4218, 5424 & 7224 - these will include steel side bracing and end beam supports and we would recommend that a concrete base is provided to ensure best results. (See diagrams on pages 3 & 4)

3. INSTALLATION DEPTHS

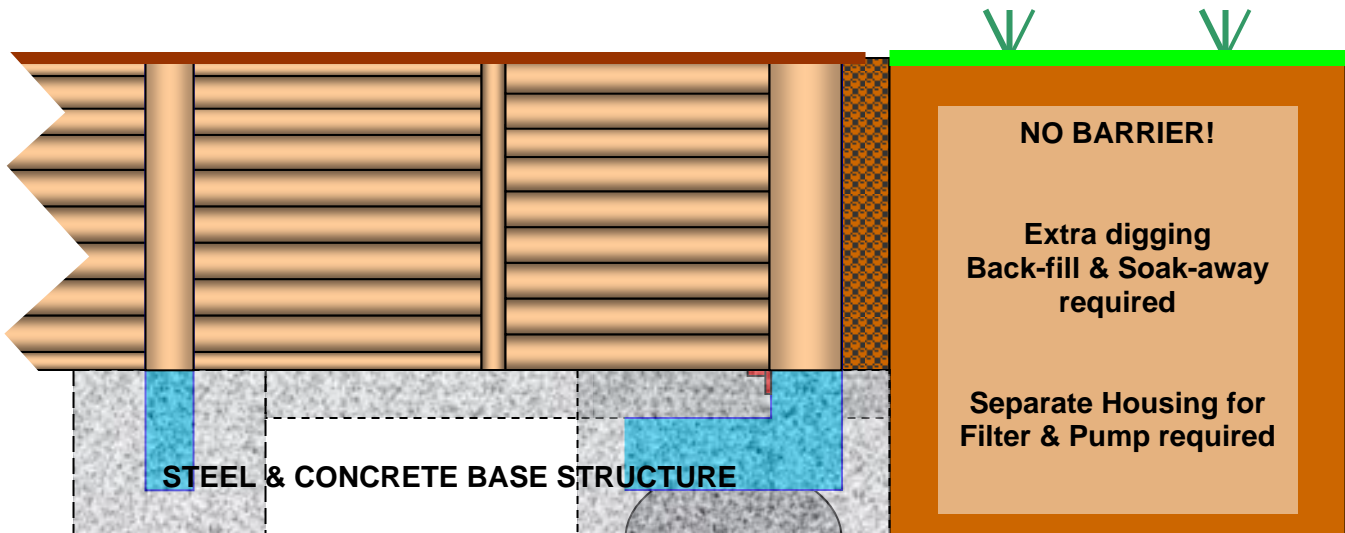
ABOVE GROUND



PARTIAL IN-GROUND



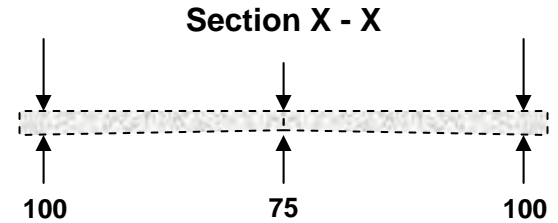
FULL IN-GROUND



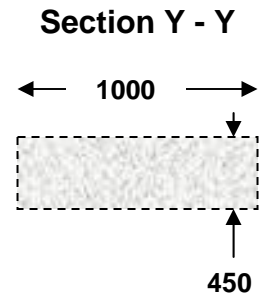
4. EXCAVATION - PLINTH LAYOUT & DIMENSIONS

CONCRETE PLINTH

The main concrete plinth should be a consistent depth of 100mm around the edges and at least 75mm across the main area as in Section X – X.

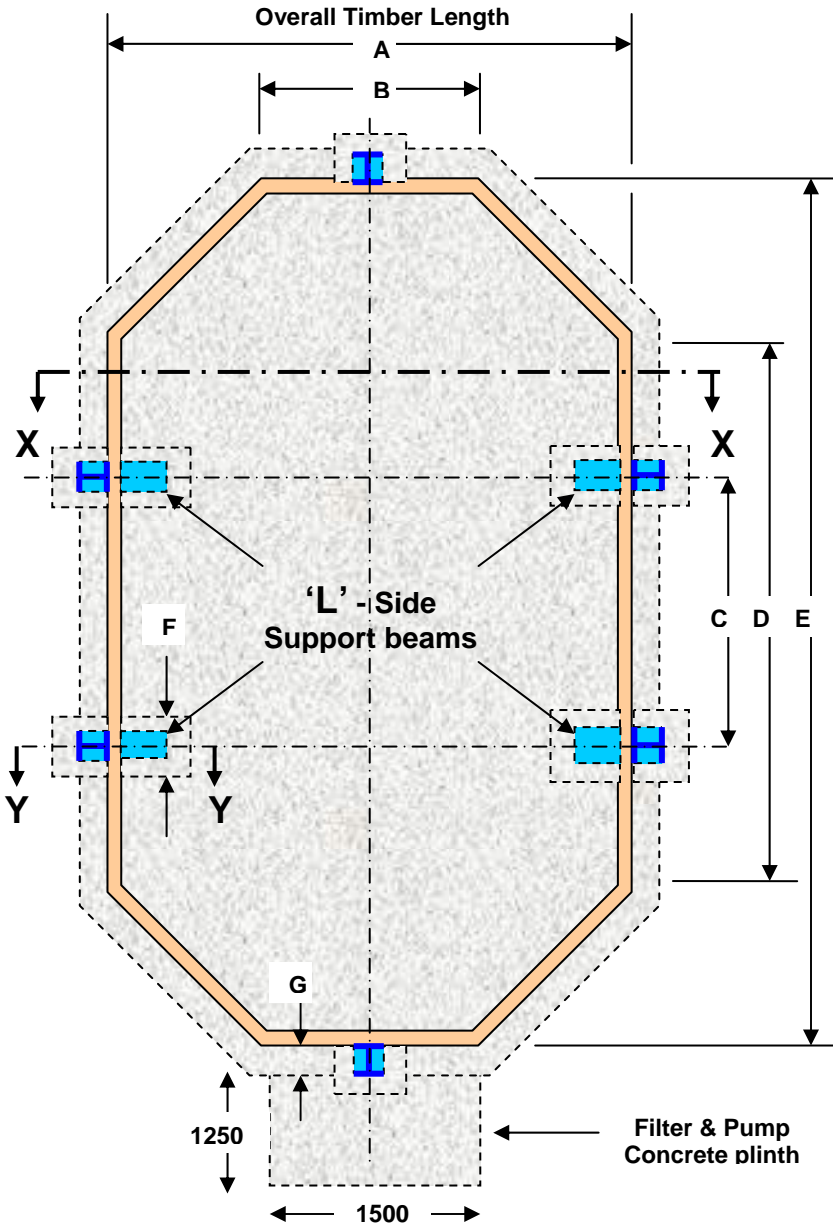


An extra depth of excavation and concrete fill is required where the main cross beams are to be set as in Section Y – Y.



! ABOVE GROUND ONLY !

If you intend to install your Sunsoka Pool above ground, an area at one end of the pool should be prepared for a 50mm concrete plinth to house the filter & pump.

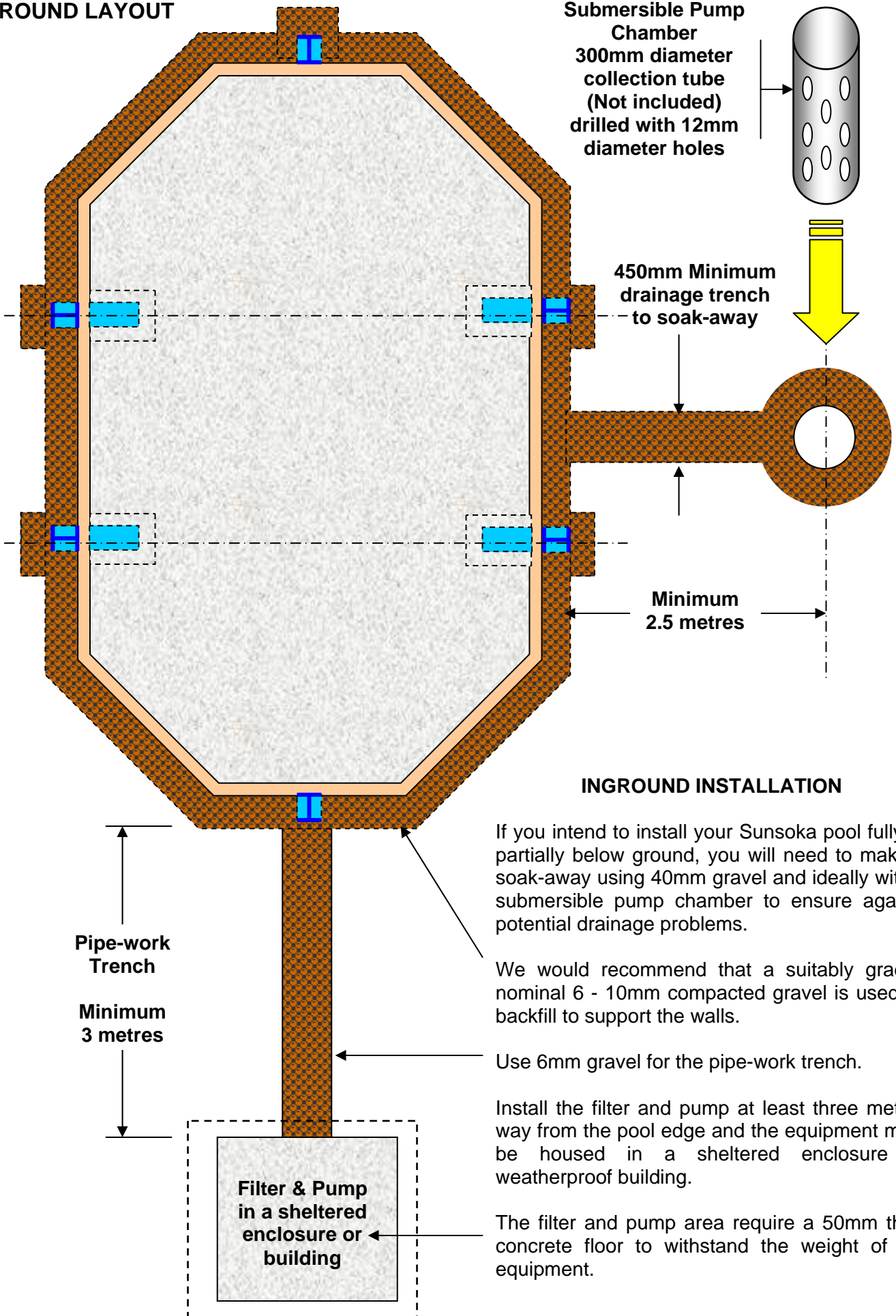


SIZE – PINS – L'BEAMS	A	B	C	D	E	F	G
1818 - N/A - N/A	3502	1414	N/A	1414	3502	N/A	200
2418 - N/A - N/A	4950	1414	N/A	2014	4350	N/A	200
2424 - N/A - N/A	4950	2014	N/A	2014	4950	N/A	200
4218 x 0 - x 2	3502	1414	2500	3814	5902	450	200
5424 x 2 - x 4	4950	2014	2500	5014	7950	450	200
7224 x 2 - x 6	4950	2014	2500	6814	1016	450	200
SPORT x 0 - x 2	2222	1414	N/A	3210	4018	N/A	200

NOTE: END & CORNER PINS

Your Sunsoka Pool will be supplied with a number of 'L' Side Support and 'End Pin' supports. These are to be centrally fitted against the wall section.

5. IN GROUND LAYOUT



INGROUND INSTALLATION

If you intend to install your Sunsoka pool fully or partially below ground, you will need to make a soak-away using 40mm gravel and ideally with a submersible pump chamber to ensure against potential drainage problems.

We would recommend that a suitably graded nominal 6 - 10mm compacted gravel is used as backfill to support the walls.

Use 6mm gravel for the pipe-work trench.

Install the filter and pump at least three metres way from the pool edge and the equipment must be housed in a sheltered enclosure or weatherproof building.

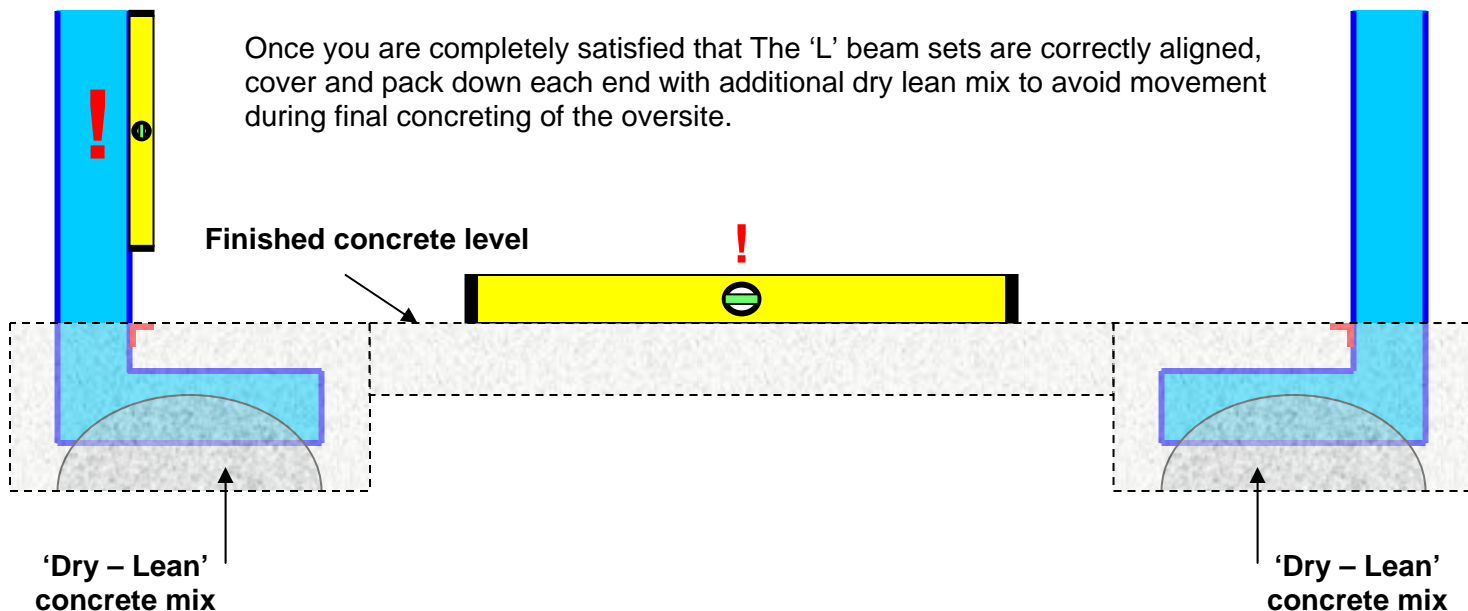
The filter and pump area require a 50mm thick concrete floor to withstand the weight of the equipment.

6. INSTALLATION OF 'L' BEAM SUPPORTS

Mount the 'L' beams onto the dry-lean mix pads and settle into position. Use a spirit level to ensure accuracy from side to side and perpendicular orientation.

It is vitally important that both – 'L' Beam sets are placed accurately in alignment and to the same levels.

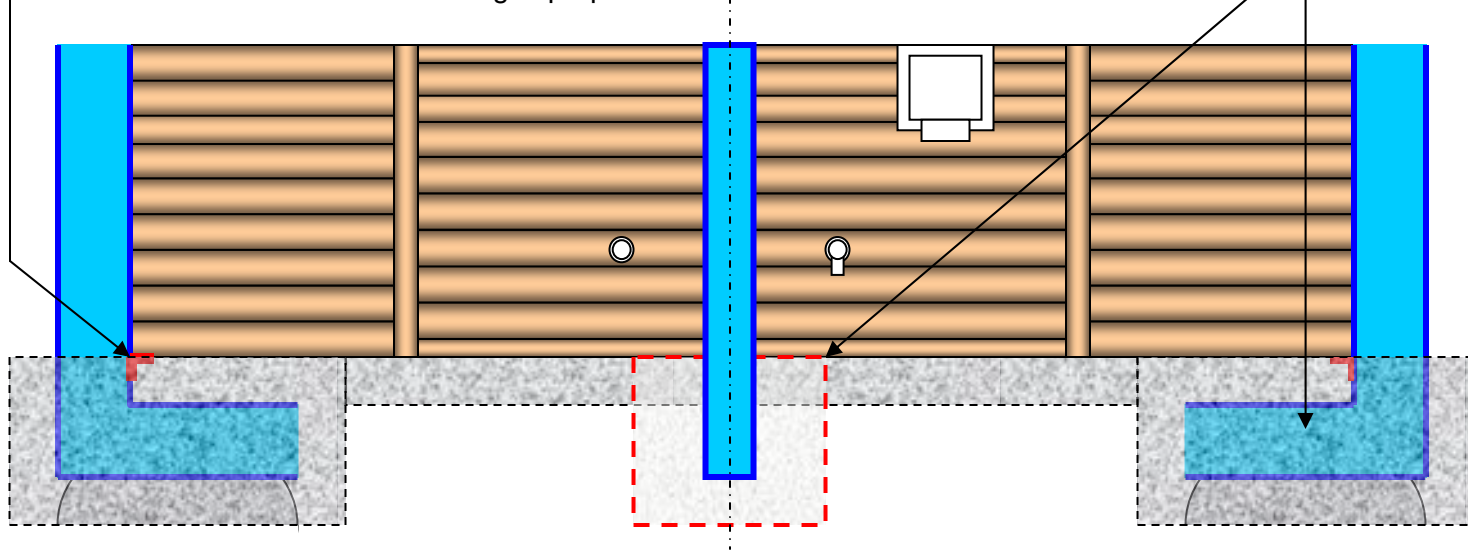
Once you are completely satisfied that The 'L' beam sets are correctly aligned, cover and pack down each end with additional dry lean mix to avoid movement during final concreting of the oversite.



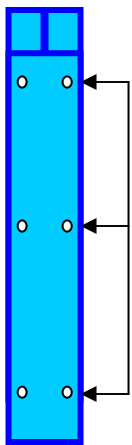
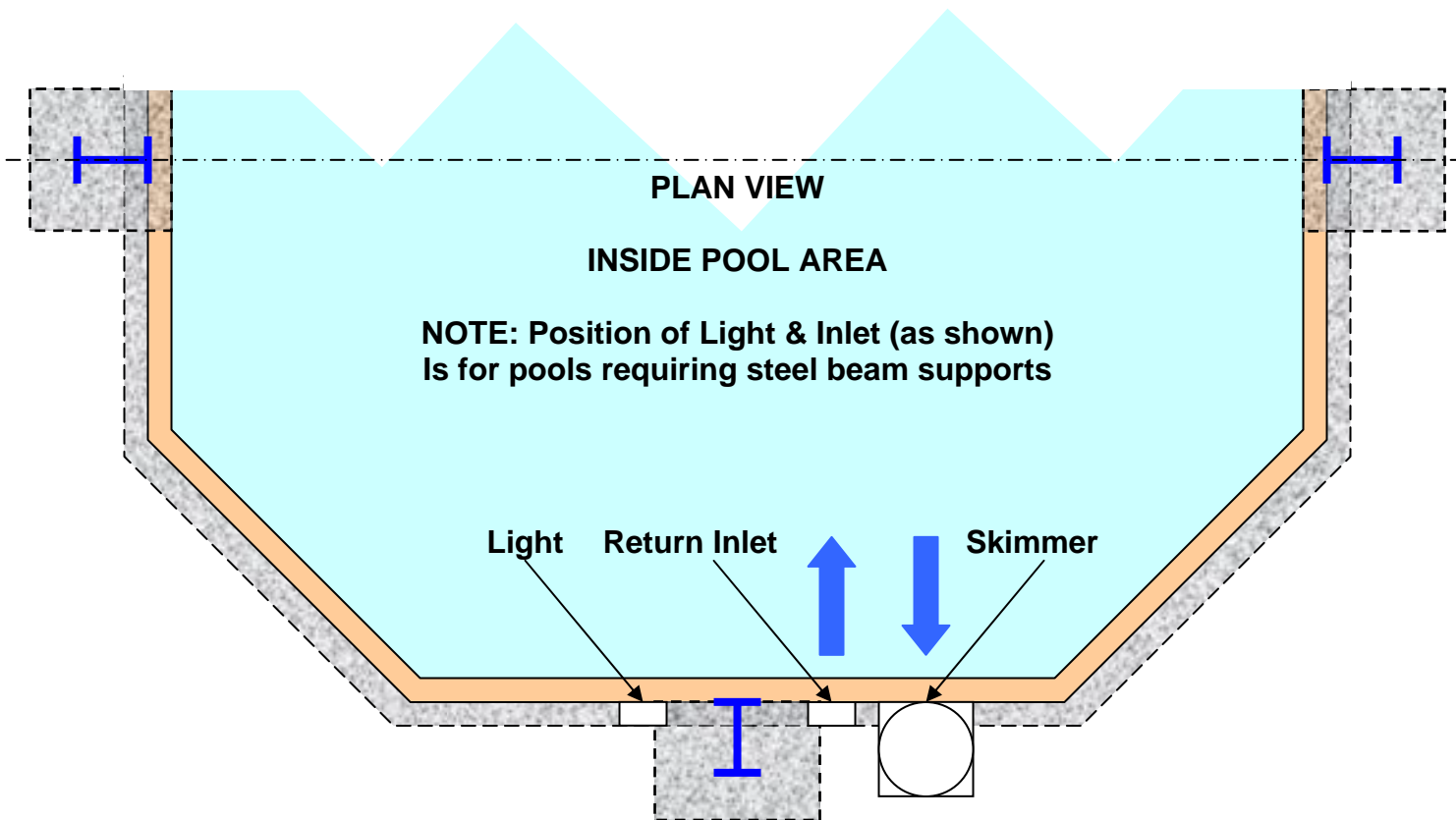
Once the 'L' beams have set securely to avoid movement you may complete the concreting of the main plinth area. Remember to leave pockets in the concrete base to allow the fitting of the end support beams.

Note: The top surface edge of the concrete should be level with the Red – 'Level Tabs' which are fixed to the inside of each upright.

Once the concrete plinth has been completed and set with pockets, the pool wall system can be fitted in place and secured by screws through each beam upright. If required, each end of the pool wall (see page 4) should be supported by an end support beam and a 450 x 450 x 450mm pocket to house these should be dug in preparation.



7. INSTALLATION OF END SUPPORTS



POOL END SUPPORTS

2 per set

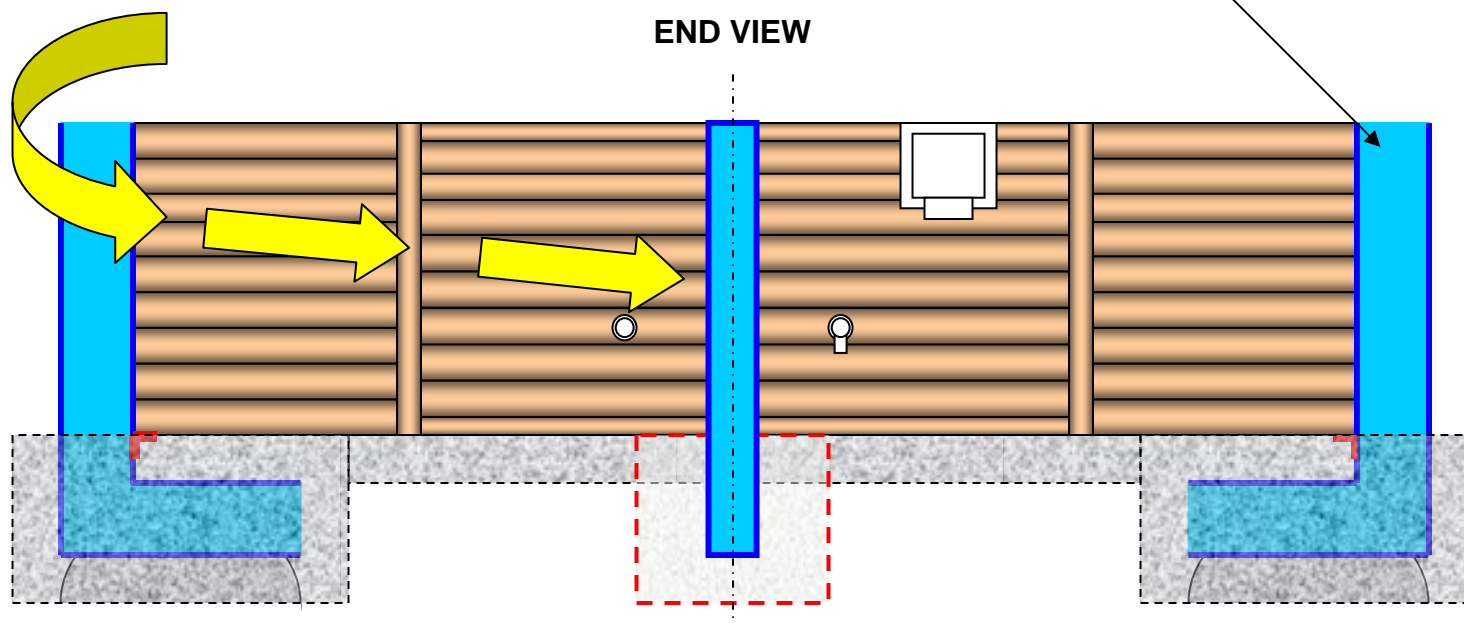
NOTE

Once the pool walls have been installed, the end support beams can be screwed in place.

Screws supplied

CLADDING SUPPORTS

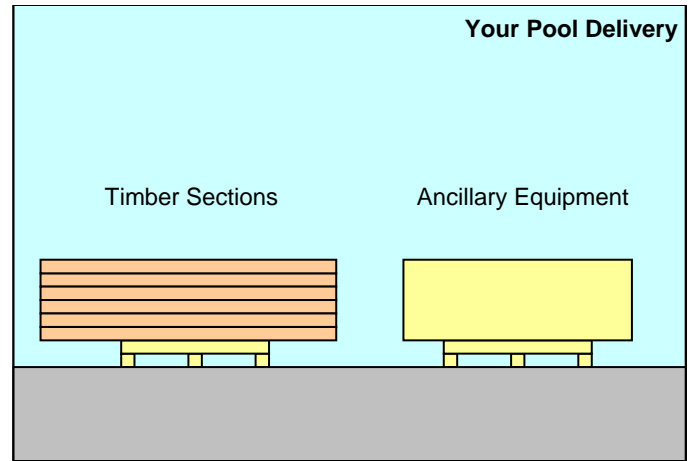
Once all support beams are securely in place (with the wall system already installed), the supplied timber cladding can be fixed around each support beam to create an aesthetically pleasing finish.



8. Checking Your Pool Delivery

Your Sunsoka pool will be delivered on separate pallets. One contains a box full of all the ancillary equipment (filter – pump – pipe-work – liner - etc); another contains all the timber for the main structure and there is a separate pallet another for steelwork (if required).

Your Sunsoka Pool will have been carefully checked prior to despatch to ensure all parts are present and correct. However, we do recommend that you use the enclosed check list to ensure all the parts are present and correct. This can be found inside the box containing the ancillary parts. Should you find any missing parts, contact your supplier immediately.

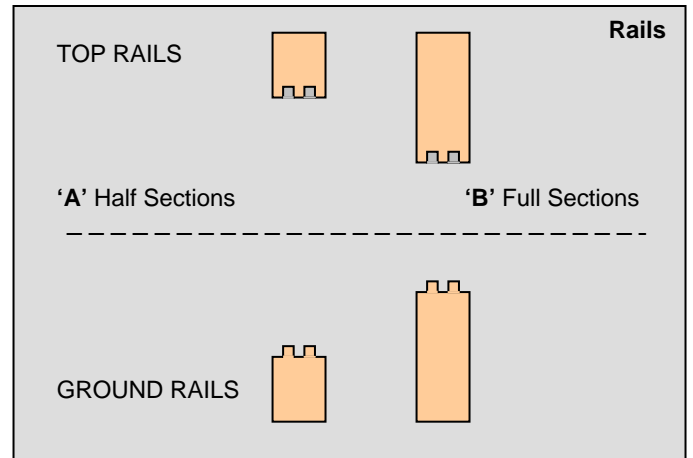


9. Selecting the Ground Rails

Having prepared the site as described in pages 1 - 8, you can commence building the pool - wall system. For simplicity we have packed all timber parts in the order that you will require them as you build the pool. So, be sure to select the ground rails pack first, which have the tongues facing upwards and plain bottom edges.

For the ground rail set there are 4 x 'A' – Half sections and 4 x 'B' Full sections, a total of 8 pieces in all.

Carefully lay out all the ground rails alternating from 'A' section to 'B' section and check to ensure the mitred joints (near each end) match with the adjacent part.

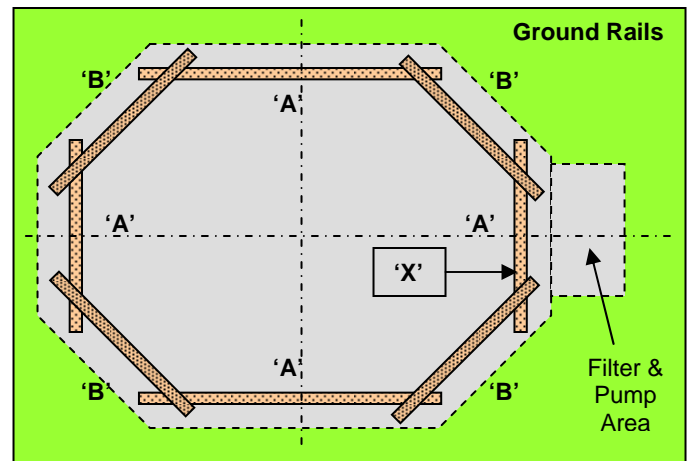


10. Setting out the Ground Rails

You must install the pool structure in a symmetrical and equal pattern. Therefore, we suggest you accurately mark the ground area (or concrete plinth) with centrelines as shown in the diagram. Using a **pencil**, mark the centre of each timber on the inside face and align with centre lines.

Be sure to arrange sections: 'A' & 'B' in the correct positions ensuring that you lay a half section at position 'A' adjacent to the filter & pump area. 'See section 9 & 10'.

Note: The filter & pump area dividing wall (see position 'X') will contain special timber sections which have been pre cut and drilled to accept both the inlet fitting and the surface skimmer.



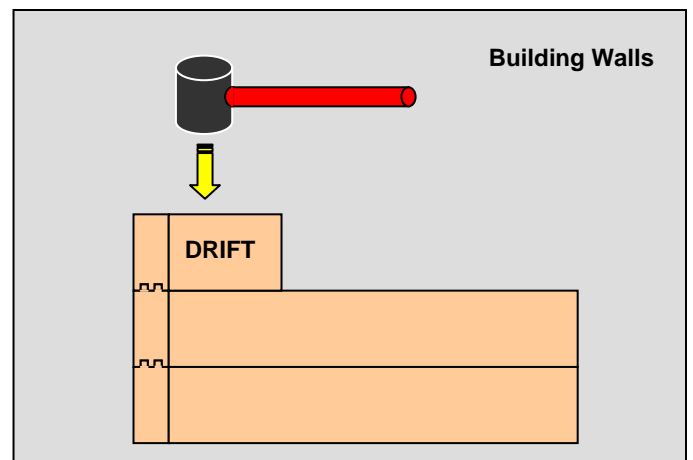
11. Building up the wall Sections

Each timber wall rail has been precision machined with a unique tongue and groove system. These should be relatively easily mate together forming a rigid structure.

Layer on layer, you must ensure that the timber sections rise in height equally around the pool circumference.

To ensure good consolidation use the drift supplied to apply localised pressure to ensure the joints are correctly interlocked and are to a consistent height.

DO NOT use a hammer or mallet directly on the timber surfaces, as this will cause irreversible damage

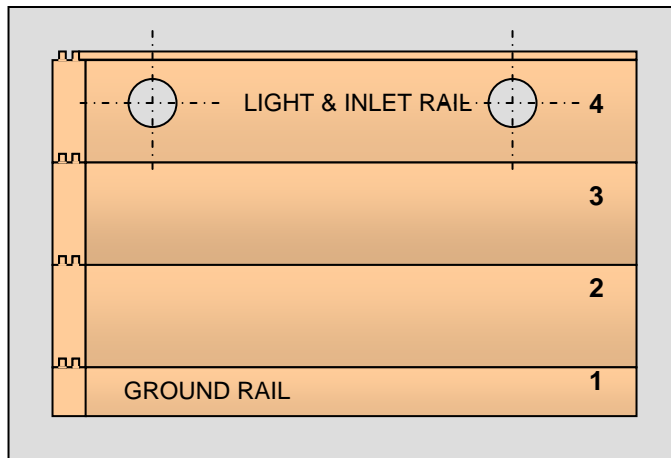


12. Filter & Pump Wall

Continue to slot the wall sections together carefully interlocking each section to the next. Ensure all printed surfaces are facing inwards.

As you reach the fourth layer of the filter & pump area wall, you should insert a rail marked 'LIGH & INLET RAIL'. This rail has a pre drilled hole through where the return water is to be plumbed to at a later stage.

Continue adding timber rails around the pool ensuring consistency in height. Measure each layer and adjust by using the drift provided together with consistent pressure applied by a mallet.

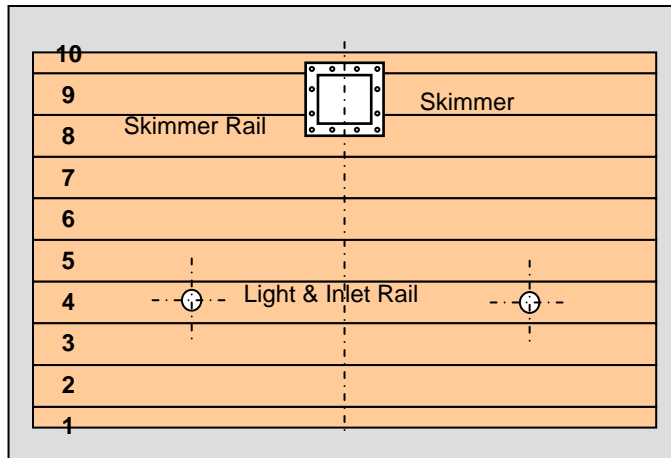


13. Positioning of the Skimmer

Once you have completed 7 wall-rail layers, select the Skimmer Rail Pack. This comprises of 4 rails which have been pre-cut and rebated to accept the skimmer.

First install rail WRSK which is rebated on the top edge. Then fit sections WRBS & WRAS which are also rebated and provide a central space for the skimmer to slot into. Place the skimmer onto the opening by pressing it firmly downwards until it is secure against the rebate in rail 8.

Fit the final top rail WSKT over the skimmer ensuring the rebated section is firmly in place. Complete top edge using sections marked as 'Top Rail'.

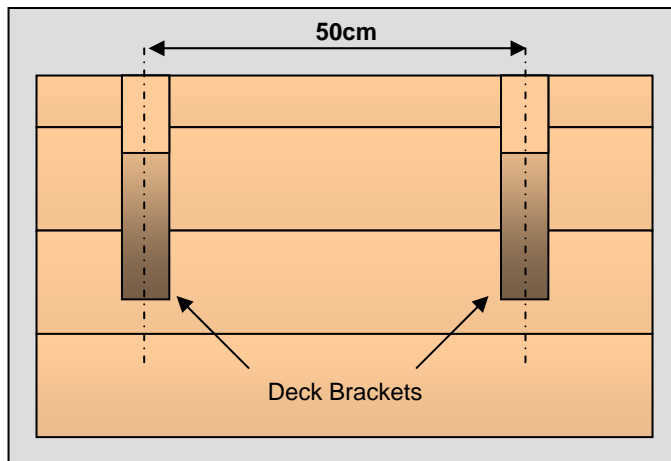


14. Locating the Deck Brackets

The Deck Brackets (part No BRKI) are located centrally along the external walls at 50cm centres. The distance apart is important to ensure correct installation of the ladder and skimmer flap.

You must decide at this stage where you wish to fit the ladder as the deck brackets for the ladder have been pre-drilled for fixing (see section 13). The ladder can be installed on any wall, except in the area where the filter and pump are to be housed

Use a spirit level to ensure correct vertical positioning and level with the top edge of the pool.

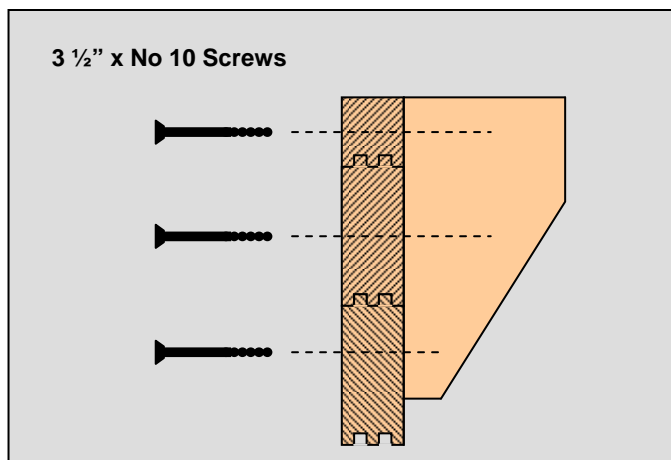


15. Fixing the Deck Brackets

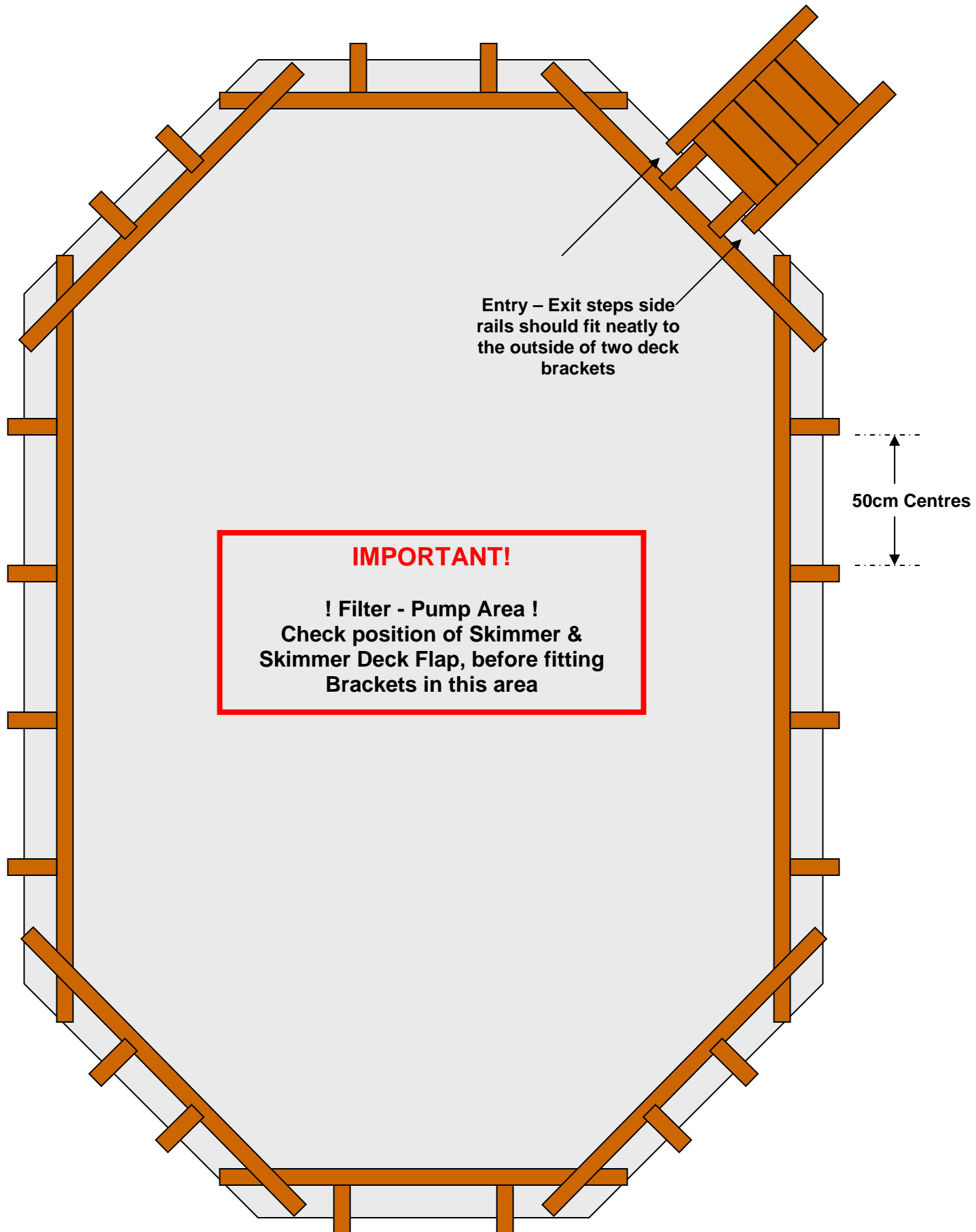
Mark the fixing positions with a pencil and drill 3 x 4mm pilot holes through the wall of the pool (three holes per bracket). Double check the bracket position, ensuring that the top edge is level and square to the pool wall.

Holding each deck bracket firmly in position, fix with: 3 x 3 1/2" - No 10 screws (Part number BSFI).

Make sure the countersunk screw heads are flush with the surface and NOT protruding. Complete all brackets to this stage. Your kit will include a quantity of deck brackets to allow for positioning at 50cm centres along each wall (see diagram 17).



16. POSITION OF DECK BRACKETS

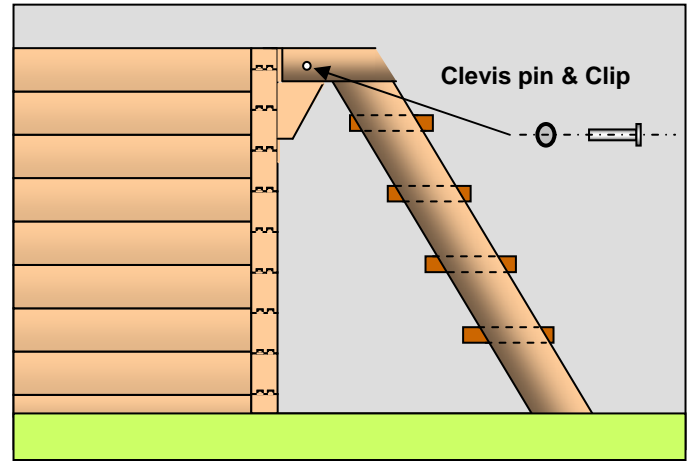


17. Assembling the Ladder

Now assemble the wooden Ladder completely, including the two pre-drilled Deck brackets which will receive the 2 x 200mm Clevis pins & clips. These can be found in the screw pack.

The ladder comprises of two side rails (stringers) & 4 step treads. Each step tread is secured by 4 screws per tread, two each side. The top of the ladder will include two anchor bracket pieces securely screwed in place.

Once assembled, offer the ladder up to the pre-drilled Deck brackets and slide the Clevis pins through the pre-drilled holes and secure with the clips provided.

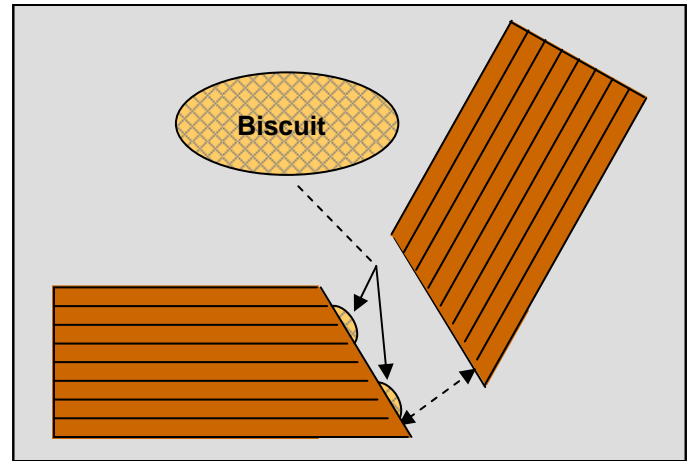


18. Setting out the Decking

The decking for your Sunsoka pool comprises of 8 pre-cut & mitred parts. Position them loosely around the top edge of the pool wall. Insert two biscuit wedges into the slots on one edge of each timber, and then tap the corners together ensuring the mitres are even.

Note: The Biscuits inserts will swell (when wet) and will then hold the timbers tightly together. Make sure the leading edge of the decking protrudes evenly by 3.5cm over the inside wall face (see note 21)

Before final fixing of the decking, it is worth spending a little time to accurately position each part, as this will be a highly visible feature of the finished pool.

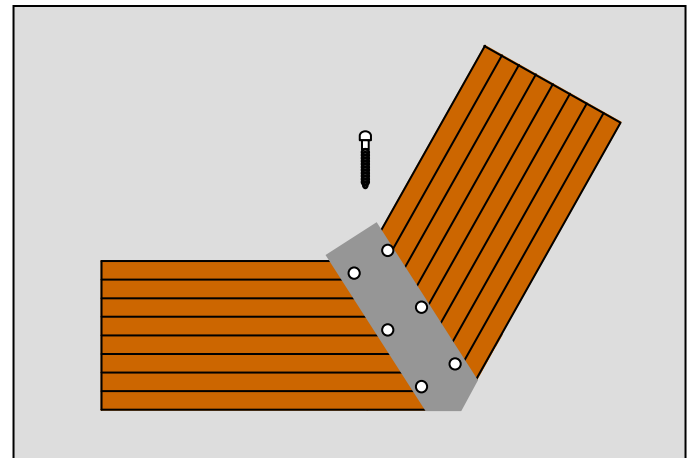


19. Fixing the Corner Plates

Ensure all gaps between the decking parts are consistent. Now fix each of the eight Corner plates to each corner joint.

Fit the Corner plates by sliding the angled end over the outside of the timber mitre. Then push the back edge of the corner plate back to the inside edge of the timber mitre. Install all plates into position.

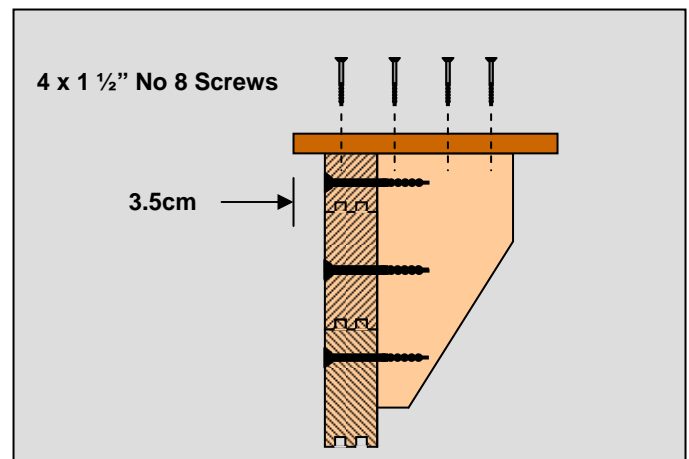
Now secure each Corner plate by using the domed head screws supplied (6 per plate). Complete all to this stage.



20. Fixing the Decking

Once you have arranged all decking and are sure you have the optimum positioning we would recommend that you carefully drill & fix each timber with one screw at each end to prevent any movement while drilling all other screw holes. Once fixed in position you need to drill 2 x 3mm clearance holes at each point of fixing. NOTE: Be sure not to apply too much pressure when drilling through the decking, as this will cause the drill bit to break!

The screw positions should be neatly arranged in lines at each end of the deck board and at each point where the board crosses over a deck bracket. Use the 1 1/2" No 8 countersunk screws provided in the screw pack.

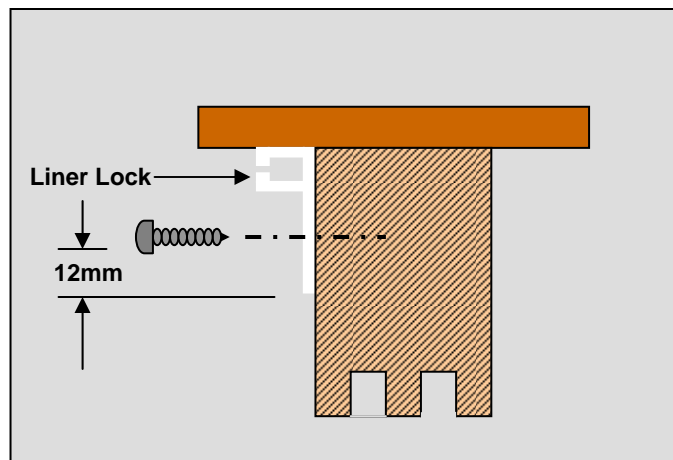


21. Fixing the Liner Lock System

The Liner fixing (Liner Lock) is an extruded white PVC section. This is to be fitted to the top rail directly under the protruding decking. See diagram.

The liner lock will need to be drilled with 3mm holes, one at 30mm from each end and then every 30cm in between. Try to keep the fixings neat and tidy with the centre of each hole approximately 12mm up from the bottom edge of the extrusion.

Use the screws provided and fix the liner lock securely all around the inner edge of the pool.

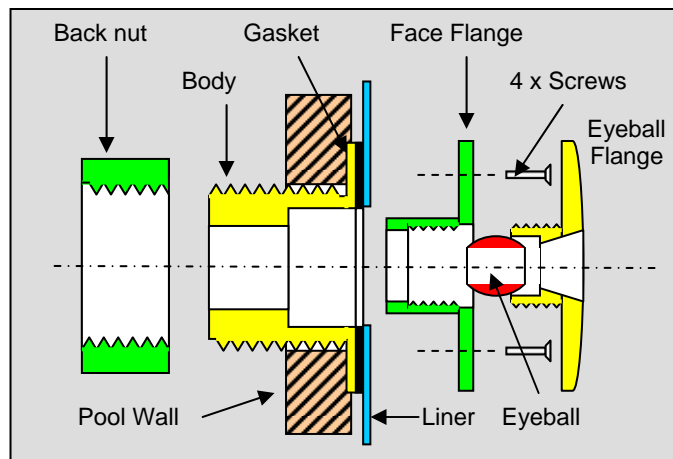


22. Fixing the Inlet & Light Fittings

Insert the main body of the fitting through the pre-drilled hole in fourth rail.

Make sure the fitting is positioned so that the Flange face fixing holes are aligned: Top – Bottom – side to side - positions (see figure 24 – holes marked in red). This will help to make the screws easier to fit once the lining is installed.

To prevent the inlet body from moving and turning insert two countersunk screws into the hole positioned marked 'A' in section 24. Make sure screw heads are flush. NOTE: The light fitting does not require screw fixing to the wall



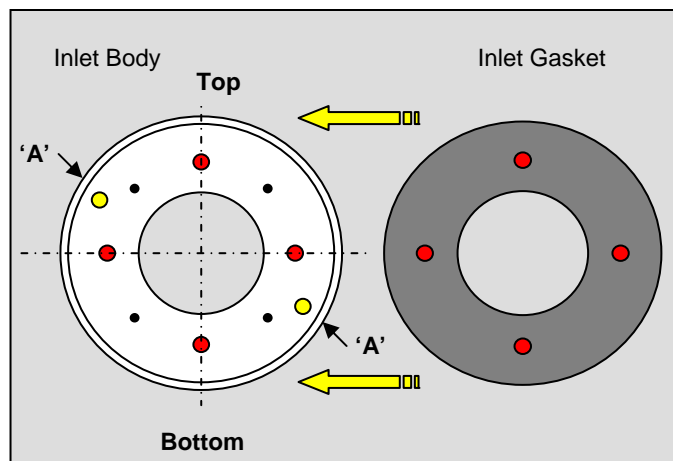
23. Inlet Fitting & Gaskets

Once the main body fitting is securely in position, screw the back nut on and tighten until secure.

Do NOT over tighten or stress these fittings!

The gaskets for these fittings should be installed at this stage. This gasket must be in place prior to installing the liner to ensure a water tight fixing.

If the gasket has a self adhesive backing, this will help to hold it in place whilst fitting the liner. If the gasket has no adhesive, then use tape to hold in place. Ensure the fixing holes are in the correct alignment with the inlet body fitting.

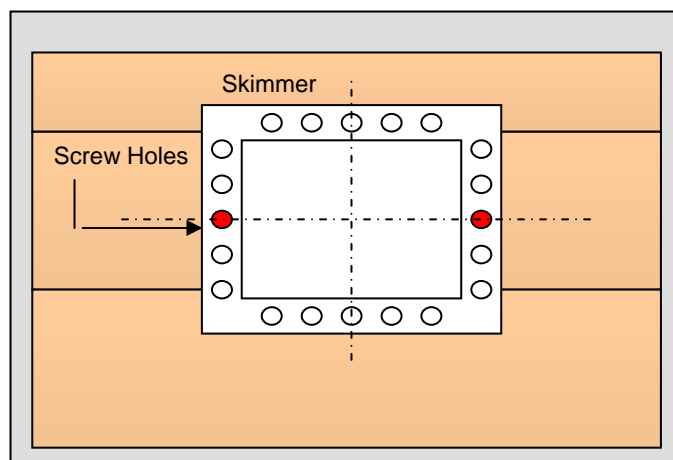


24. Fixing the Skimmer

The skimmer should be resting snugly in place secured by the timber rails. For additional support we recommend that you drill 2 x 4mm holes through the skimmer in the positions indicated in red on the diagram.

Do NOT drill into the timber sections. Once the holes have been drilled, finally secure the skimmer by inserting 2 x self tapping screws through the holes but do not over tighten.

Once firmly in place fit the gasket over the skimmer face and ensure all holes are in alignment & temporarily fix with tape, or fit the gasket after liner installation (which ever is easier to undertake).



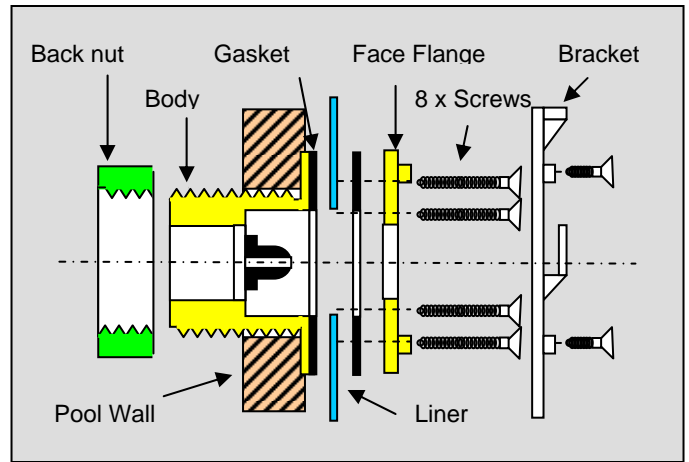
25. Under Water Light – Wall Fitting

At this stage (prior to fitting the liner) you only need to install the main body through the pool wall (from the inside of the pool) and secure on the outside with the back nut.

IMPORTANT: You must install the main body of the wall fitting with the top two holes correctly positioned in a vertical plain (see Note 26).

If you do not install the body in the correct orientation the main bracket (which houses the light unit) will be at the wrong angle!

The diagram (right) shows a full assembly of how the light fitting kit should be installed.

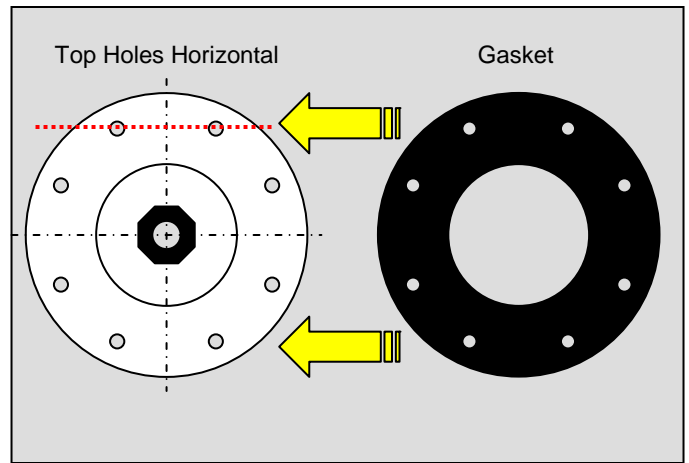


26. Underwater Light – Gasket Fitting

Once the Light - wall fitting is correctly installed with the back nut holding it securely in position, you can now install one of the two self adhesive gaskets.

IMPORTANT: Make sure the top two holes of the body fitting are in a horizontal plane – see the red dotted line on the diagram opposite.

Peel off the backing from the gasket and align with the holes in the face of the fitting. Press onto the fitting and hold until secure.



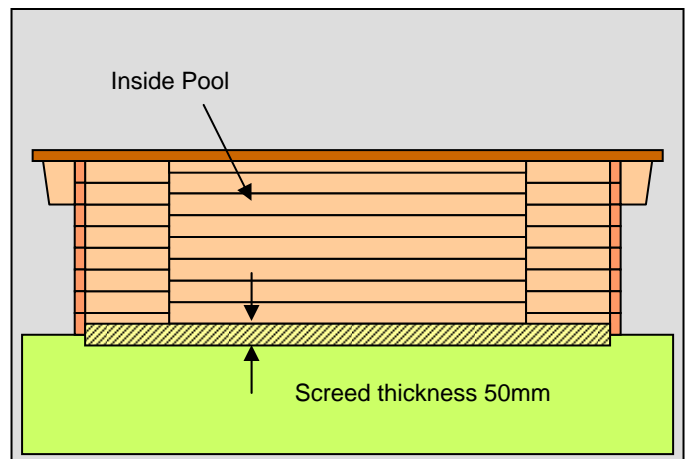
27. Screed the Pool Floor

If you have installed a concrete base – ignore this item.

The floor screed should be made from 10/1 plastering sand/Cement mixture. The mix should be damp and well mixed allowing for good compaction.

Make up a number of level pegs and position around the pool base at approximately 1.5m centres and to a finish level of 2.5 cm above the lower edge of the first ground rail.

You may need to clear off the top of the surface to be able to achieve an even 50mm screed depth. Once the screed is in place, allow time to set off & avoid any type of impact.



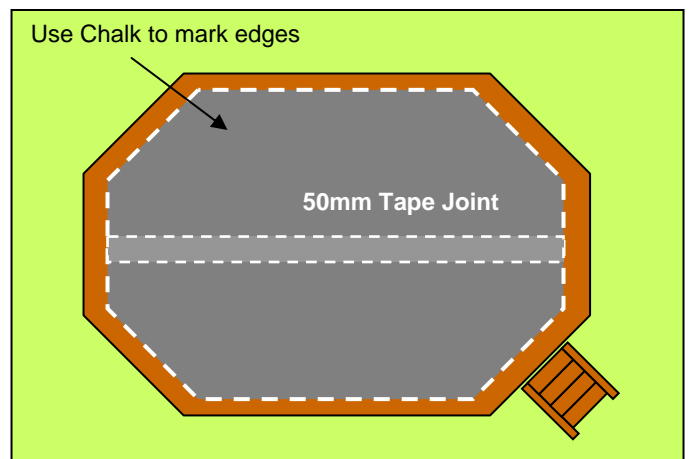
28. Liner Felt Underlay

Thoroughly clean the pool floor before fitting the Underlay!

Roll out the underlay material and allow to flatten before application. Lay the underlay felt onto the pool floor, close butting and taping any required joints.

Use the 50mm jointing tape provided pressing it firmly to the underlay, ensuring there are no creases or raised edges.

Use a piece of chalk (not a felt tip as this will mark the pool liner) to mark the external edges ready for cutting. Trim any excess from around the edges with a pair of sharp scissors.

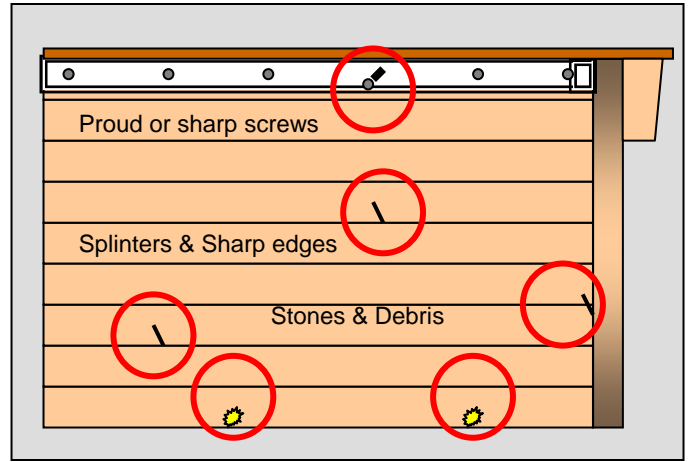


29. Before You Fit The Liner!

Check that all recess of the liner-lock is free from debris. Check all wall surfaces to ensure they are free from protruding screw heads, splinters. Remove all debris and any remaining tools from inside the pool.

Ensure the skimmer and inlet face gaskets are securely in place. Vacuum clean the entire inner area of the pool to ensure it is absolutely clean and free of all debris.

The smallest stone will show through the liner, so it is vital that the pool interior is absolutely clean before you install the liner. If in doubt, CLEAN IT AGAIN!



30. IMPORTANT!

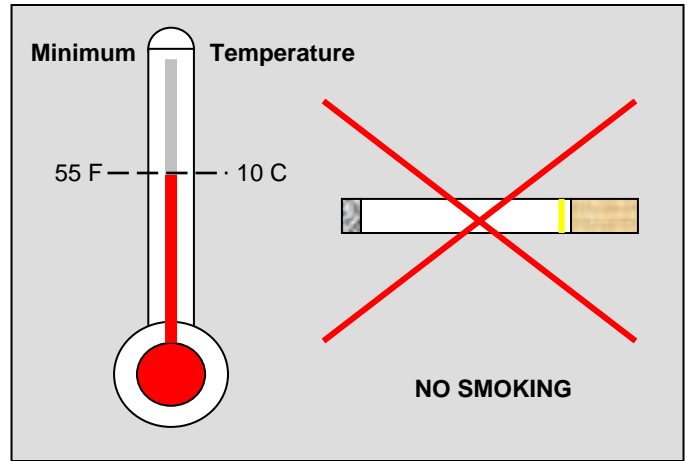
Do not smoke anywhere near the exposed liner.

Do not attempt to fit the liner when the ambient temperature is less than 55 degrees F or less than 10 degrees Centigrade.

Do not attempt to fit the liner if it is raining, or might rain within the next 6 hours.

Wear only flat soled shoes and ensure they are clean each time you enter the pool.

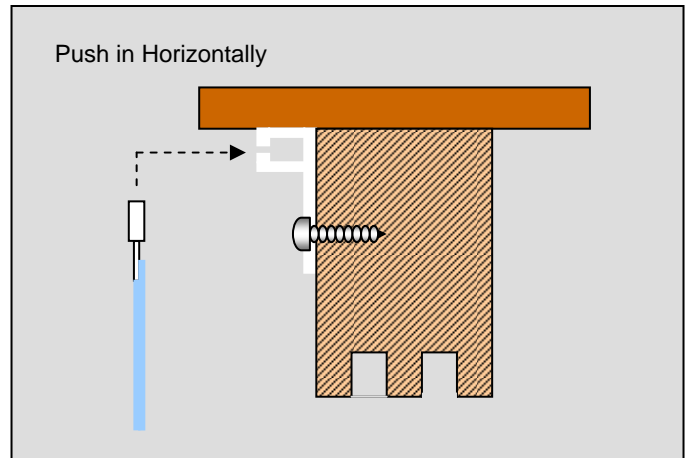
Fitting the liner is ideally a two person job!



31. Installing the Liner

Lift the liner pack into the pool end, the liner is 'fan packed' and will unfold in the direction of the label arrows along the centre line of the pool. Roughly align the corners of the pool liner with those of the pool walls. Locate the corner index markings on the rear of the liner beading and insert the fixing bead into the corresponding corner of the liner-Lock.

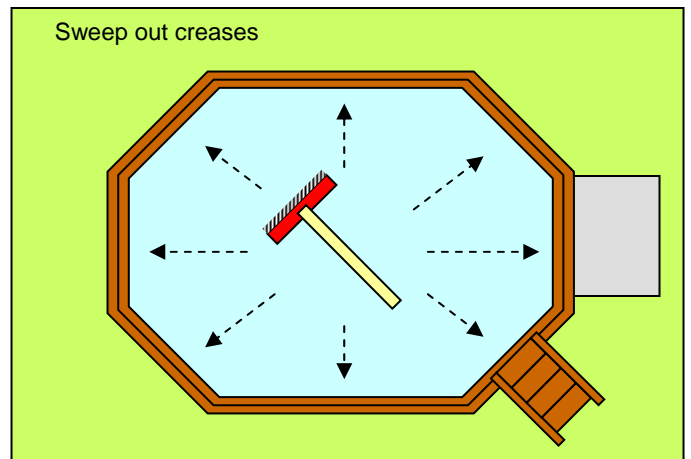
The bead is introduced horizontally to the liner-Lock and locks into position when the liner falls into the vertical position against the pool wall. Fix the liner bead at the wall run corners and then working from the fixed points each way to complete securing the liner fixing.



32. Liner

Using a soft broom, gently press the liner floor out towards the wall/floor intersection, so that the corners of the liner correspond with those of the pool walls, until the liner hangs within the pool uniformly and there are no creases in the floor of the pool liner.

Spend time getting the liner to 'look right' the position of the liner may be rotated within the pool by lifting the liner and moving the bead in the line-Lock. Only when you are totally satisfied with the fit of the liner, should you start to fill the pool with water. Note: The liner is slightly smaller than the pool to allow for stretching.



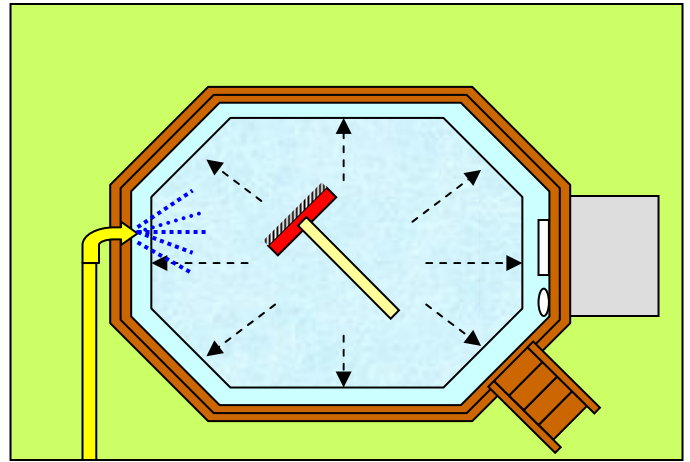
33. Starting to fill the pool

Use a hose pipe and connect to the side of the pool.

Partially fill the pool to a depth of **10mm**, then, brush out with a soft broom any creases towards the walls.

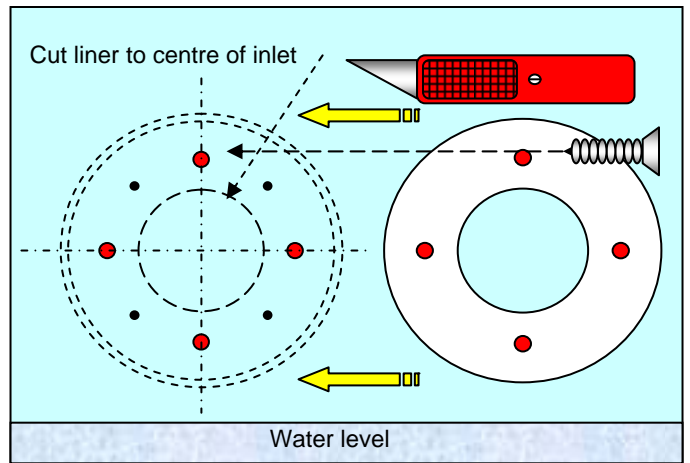
Note: If the creases will not easily brush out, it may be necessary to drain the pool and refit the liner.

Ensure you are satisfied with the fit of the liner before continuing to fill the pool. Once you are satisfied, continue filling the pool to a level 10mm below the inlet fitting.



34. Fixing the Inlet Flange Face Plate.

Locate the first fixing hole of the return inlet body (which should be at top position – see note 22). When you are CERTAIN that the correct location is found, pierce through the liner with a bradawl at the position of the fixing hole. Place the face plate over the inlet body and fit a securing screw through the hole already made. Do not over tighten this first screw. Locate the second screw hole in the inlet body and repeat the procedure. It is necessary to repeat this until all four screw points are complete before tightening all four fixing screws equally. Using a sharp knife cut through the liner in the centre of the flange ring. Complete the fitting by installing the eyeball assembly.

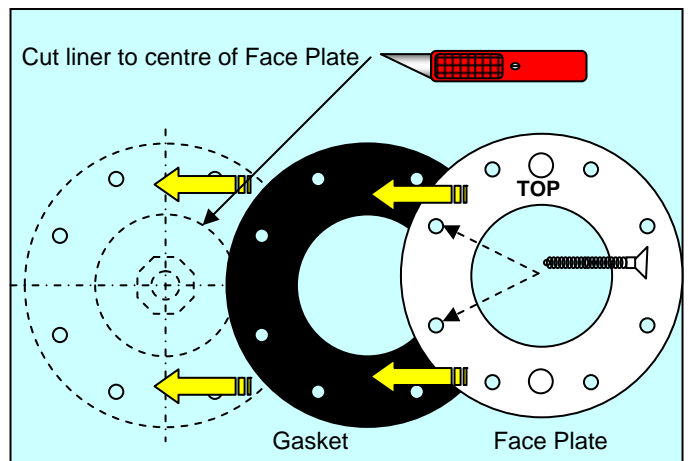


35. Fitting the Light - wall fitting Face Plate

Take the second gasket and remove the paper backing. Stick this gasket onto the back of the face plate ensuring correct alignment with the eight holes through.

Now take the face plate and align with the pre-fitted light housing body & gasket. Make sure holes are aligned. Use a bradawl to pierce through each hole and insert all 8 x 50mm c/s screws provided. Tighten each screw until it firmly holds the fitting and the liner without movement.

Finally, cut around the inside hole of the Face-Plate to reveal the cable gland inside.

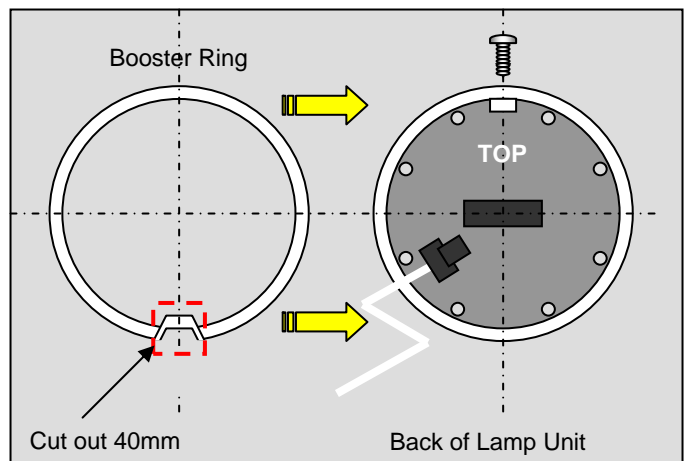


36. Fitting the Light – Booster Ring

You will find a whit plastic 225mm diameter booster ring within the set supplied.

The booster ring (as supplied) has a small niche which needs to be removed before fitting (see diagram to the right). Carefully cut out a section (approximately 40mm wide) to remove the unwanted niche.

Try the ring to the back of the light fitting (with the cut section downwards – at the bottom) and when you are sure it is fitting correctly apply a small amount of adhesive to the back edge of the lamp unit and firmly fit the booster ring into position.

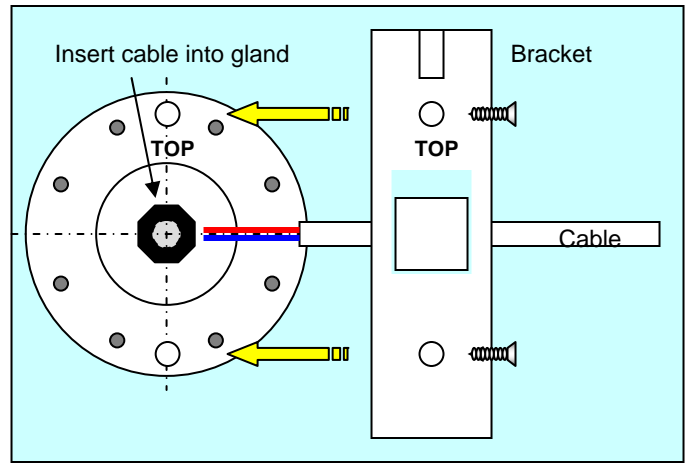


37. Fitting the Light – Cable & Bracket

Remove the black nut from the centre - Cable Gland and slide it onto the lamp cable. Feed the bare cable ends through the gland and pull through on the back side of the pool wall.

NOTE: You will need to keep an amount of cable (300 – 500mm approximately) inside the pool for final positioning & fixing of the lamp unit.

Reconnect the gland nut and tighten on the threads to ensure a water tight seal on the cable. Finally locate the lamp bracket and secure with the two short countersunk screws.



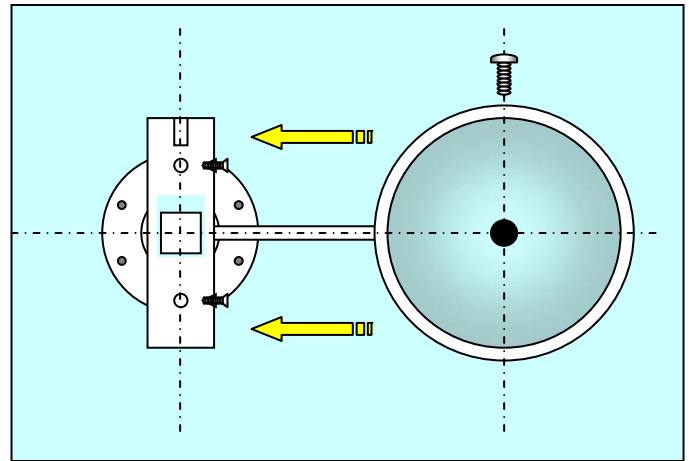
38. Fitting the Lamp unit to the Bracket

To finally fix the lamp unit carefully feed the excess power cable into the inside (rear) of the lamp unit using the cable clips where possible.

Centralize the lamp unit over the bracket and slide it onto the bracket clip. Once in place ensure there is no cable protruding and that the top fixing hole is correctly aligned.

Finally, insert the top (domed head) fixing screw to ensure the light is held securely in place.

Never turn the light on without being covered by water!

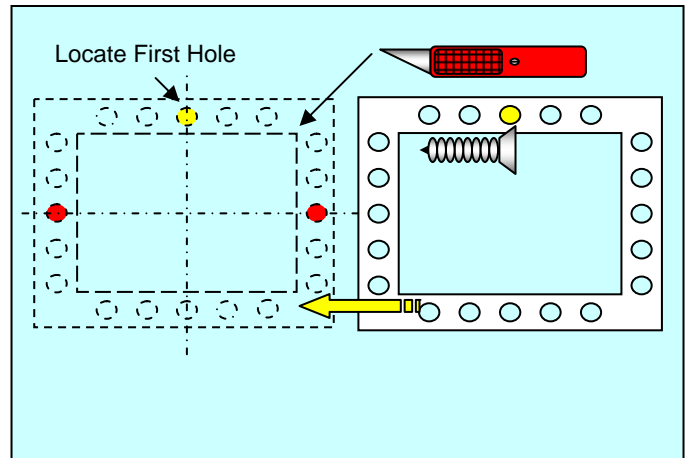


39. Fitting the Skimmer face plate

Continue to fill the pool until the water level reaches the skimmer. Ensure the skimmer gasket is in place and position the face plate over the main skimmer body so that the holes are in the correct alignment.

Locate the first hole in the top centre position and pierce through the lining and insert a screw through the face plate into the main body. Repeat the procedure through all available holes and finally tighten all screws equally.

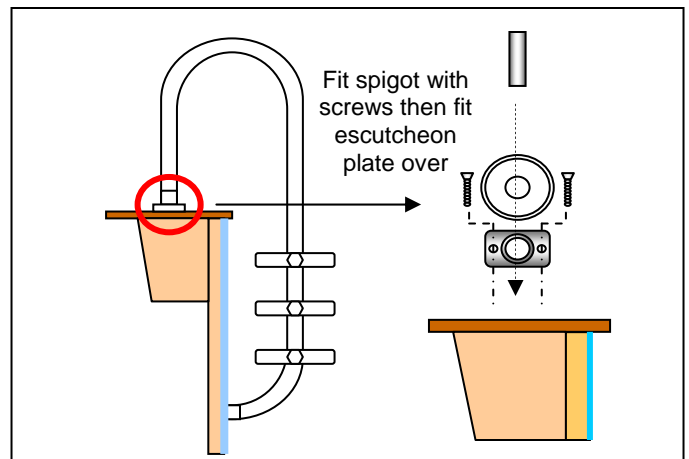
Cut through the liner with a craft knife, using the inside edge of the face plate as a cutting template.



40. Stainless steel Pool Ladder

Note: For safety reasons the pool steps should be installed immediately after filling the pool.

Establish the centre line of the previously fitted deck brackets attached to the wooden steps. Mark lines at 50cm centres and dissect at 20.7cm back from the pool decking edge to provide the tube centre point for the pool step spigot. Ensure that the spigots are square to decking edge and using the holes in the spigot flange, drill 3mm pilot holes through the decking and deck brackets. Use the 6mm x 60mm coach screws to secure the spigots through the decking and into the deck brackets. Assemble the steps and mount to the spigots.

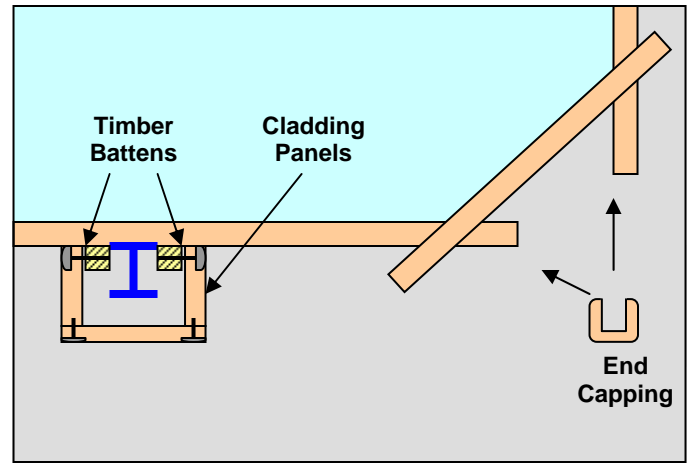


41. Edge Trim & Beam Cladding

To complete the external pool wall end sections there will be a quantity of pre-cut end capping – mouldings within your Sunsoka pool kit, which ready to screw in place.

For each exposed 'I' Beam support; there will be three pre-cut cladding panels which can be easily screwed together to form a three sided box (see diagram).

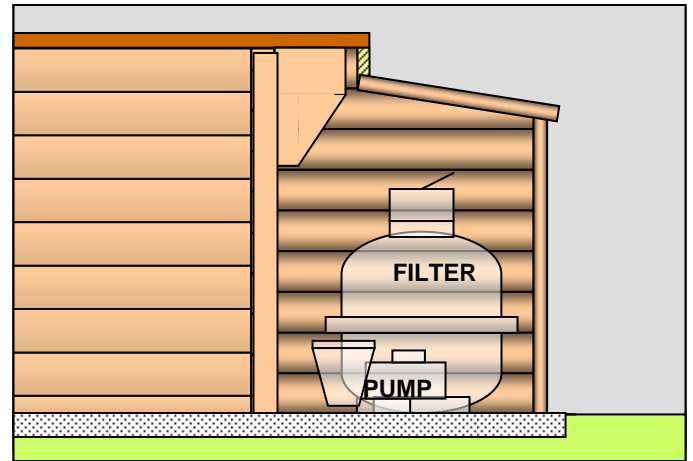
Place and fix with screws, the two timber battens to either side of the upright beam, then fix the cladding box section to the battens using countersunk screws.



42. Filter Pump Enclosure

Note: If your Sunsoka pool includes as Filter Pump Enclosure, this must be fitted prior to installing the filter – pump & pipe-work.

See Figure 42 – Filter Pump enclosure assembly on page 18 of these instructions.



43. Plumbing: Before you start!

IMPORTANT! Read the label of the solvent adhesive before making any glued joints. Note: This adhesive is highly flammable and must be applied with care. DO NOT SMOKE NEAR THIS ADHESIVE.

When applying the adhesive – make sure the area is well ventilated – avoid breathing in fumes!

Before cutting any pipes, refer to the diagram on page 10 which shows the overall plumbing layout. Start by roughly positioning the pump and filter (as shown) ensuring that all equipments will fit within the confines of the allocated area.

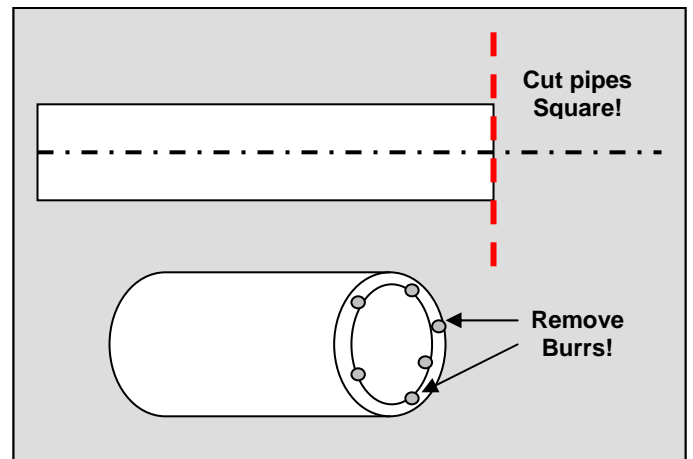


44. Plumbing: Important Note!

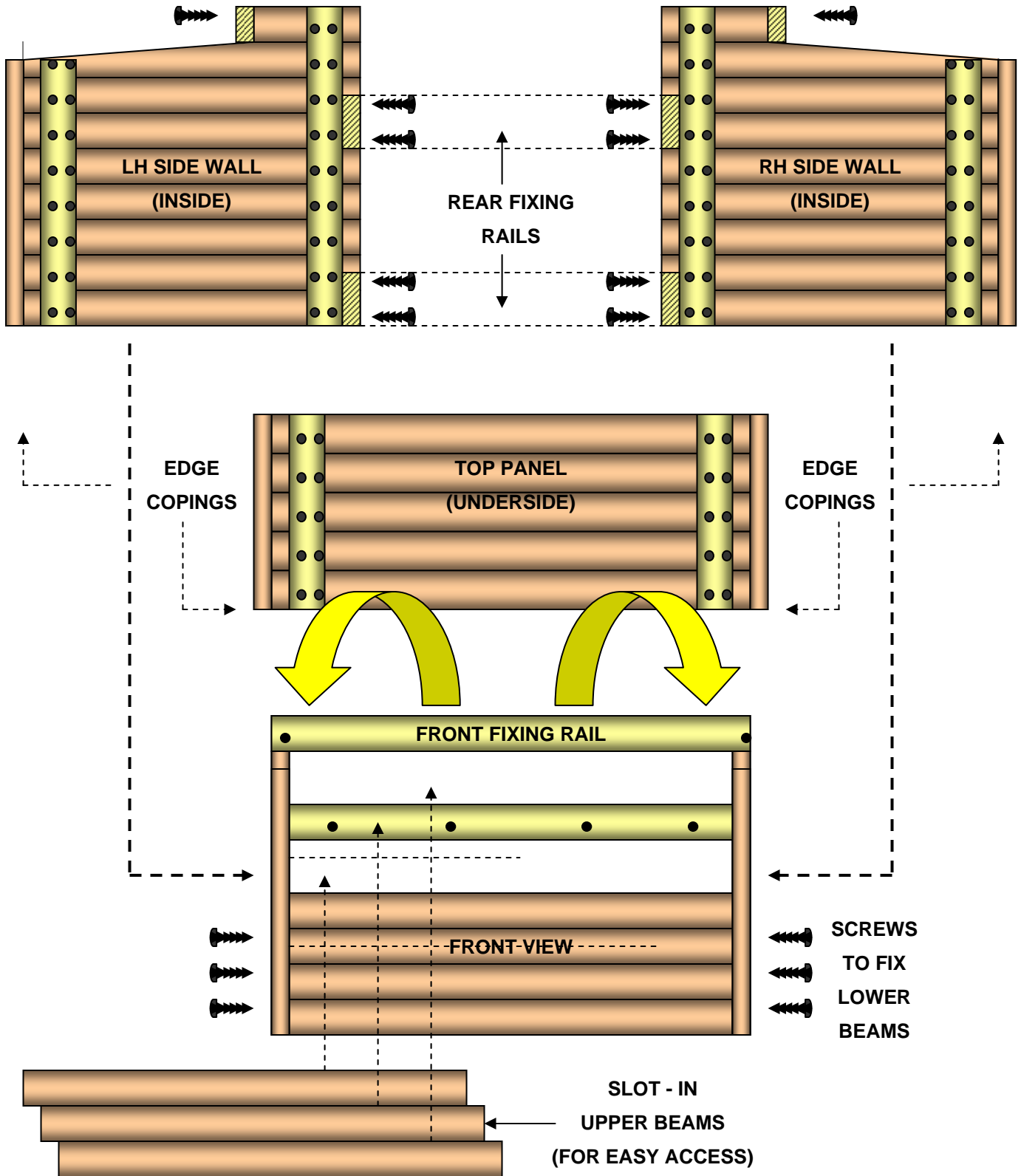
We would suggest that before solvent welding (gluing) any of the pipe-work, it may be a good idea to 'dry fit' all parts and once you are completely satisfied that all is correct, then apply the adhesive.

Cutting the pipes: Always – Measure twice & cut once! Make sure that when cutting the pipe-work that the cuts are straight and even.

Make sure all burrs are removed from cut pipe ends before gluing together. Use 'P 60' sand paper to remove burrs.



45. FILTER – PUMP ENCLOSURE ASSEMBLY

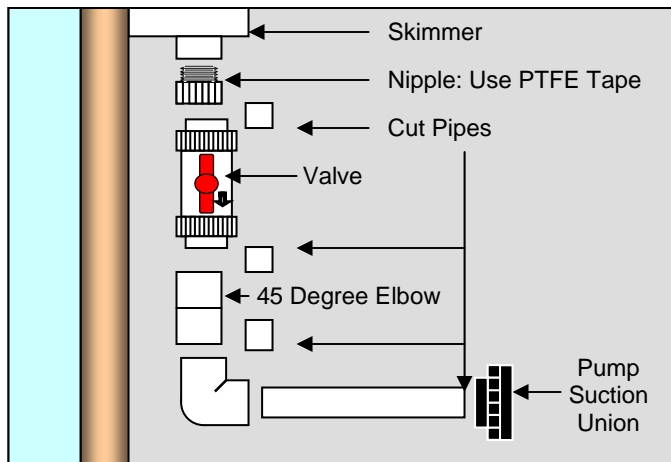


46. Plumbing (Suction line)

First; start by making up the suction pipe-work (as a 'dry fit') between the skimmer and the pump suction Union.

Screw the nipple provided into the bottom of the skimmer using the PTFE tape provided. When measuring between fittings; be sure to include an additional length required to fit inside the lip of each fitting. Once you are sure of the length, then; cut the pipe into the four pieces required.

Make sure the pump is inline with the skimmer and that the pipe-work does not cause the pump to lift from the ground or be subject to any sort of strain.

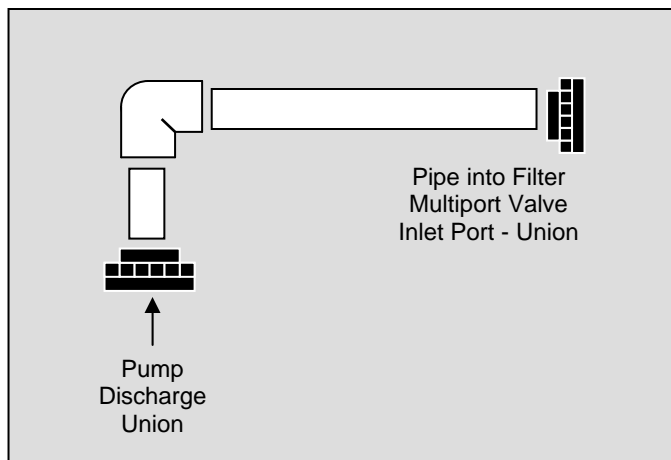


47. Plumbing (Pump discharge line)

With the pump and filter in position; make up the pump discharge line (as a 'dry fit'). Note: you need to cut two pipes and use a 90 degree elbow to orientate the pipe down towards the filter – multiport valve inlet port.

Make sure you connect the pipe to the valve inlet port. Check the markings on the valve (pump – see fig 42). Leave enough room between the filter and pump for servicing the equipment.

Ensure that all pipes and joints are firmly pushed together and that there is no stress on either the pump or filter unit.



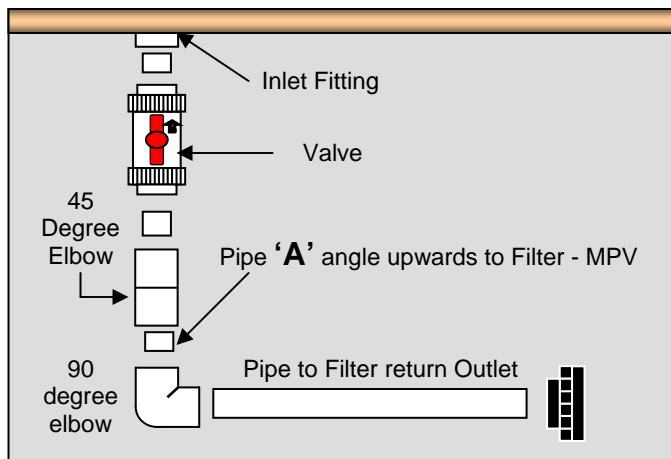
48. Plumbing (Return Line)

The return line runs between the multiport valve outlet-port; down to the return - inlet fitting (already fitted).

You will need to cut four individual pipes to make up the return line. Ensure that this pipe-work does not foul the previously fitted pump discharge line.

Note: The pipe marked 'A' (see diagram) is to be angled downwards from the filter - valve outlet and will cross over the top of the pump motor.

Complete the preparation of all pipe-work as a 'dry fix' & only glue together when you are sure they are all correct.

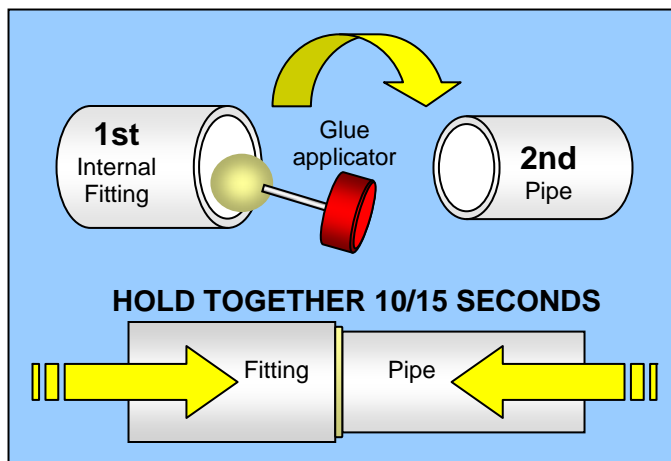


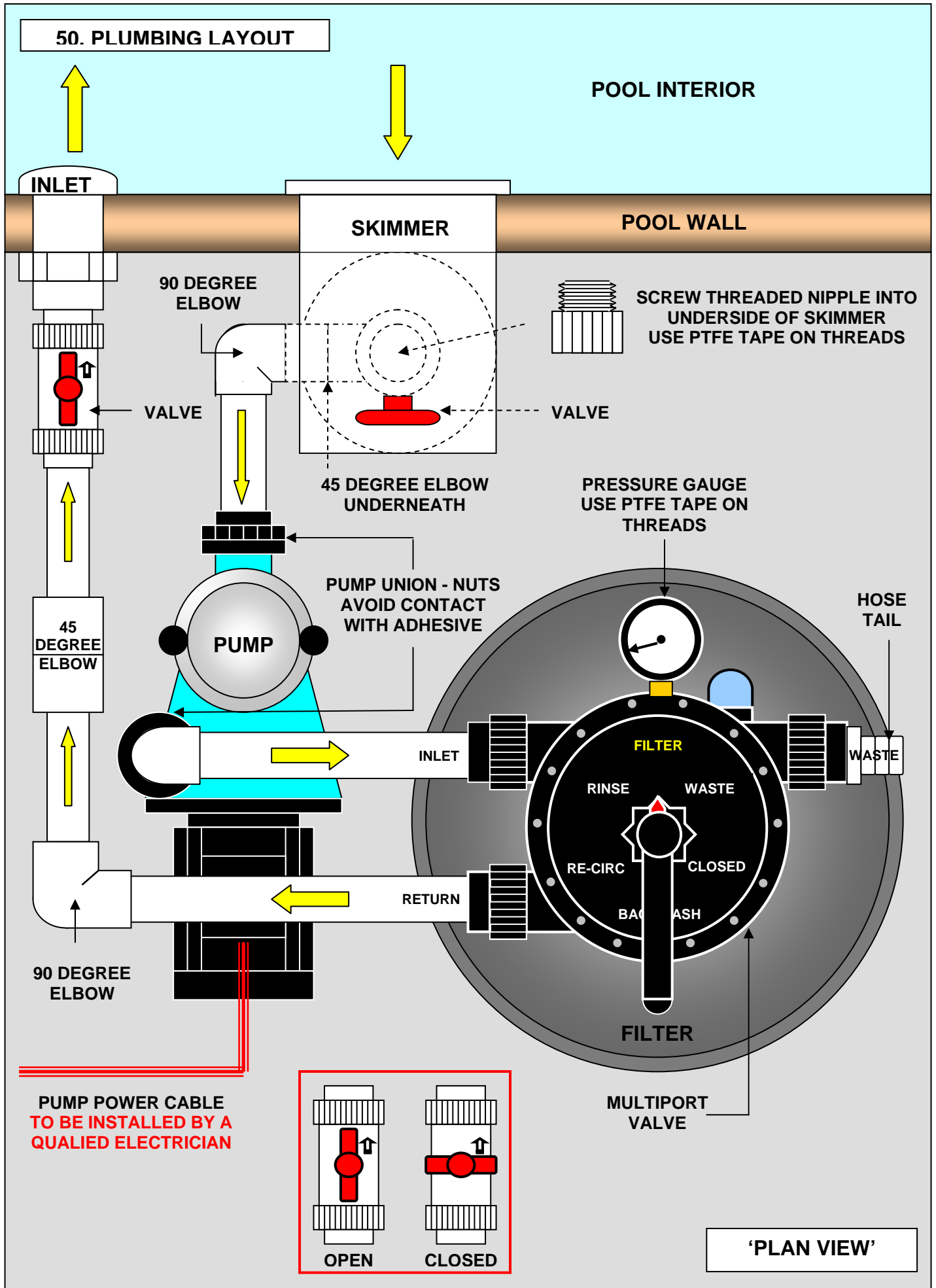
49. Plumbing – Gluing All Joints

Important! Make sure that the pump suction & discharge unions & nuts are in the correct positions before attempting to glue the pipe-work together. NOTE: You will NOT be able to fit the union nuts after gluing together!

Ensure all parts to be glued are clean – dry and free of grease. Apply a consistent amount of adhesive to both surfaces & join within 20 seconds of application.

Always apply glue to the internal bore part first, then, to the pipe-end to be fitted. Once glue is applied; firmly push the parts together and hold together for around 10 – 15 seconds, to avoid any movement.





SUNSOKA POOL – INSTALLATION INSTRUCTIONS - NOTES



THE HOME OF SUNSOKA POOLS, CABINS & SPAS



Villagio Limited, Unit 4, Newhouse Farm Industrial Estate, Antlands Lane, Burstow, Horley, Surrey RH6 9TF, England
Telephone: +44 (0)1293 297000 Fax: +44 (0)1293 297007 Web: www.sunsoka.com Email: info@villagio.co.uk