

Assembly and Operating Instructions

Oval-Shaped Pool

SWIM



Important notes:

Please first read all parts of these instructions very carefully and follow the advice given.

Before beginning with installation, check the swimming pool components and make sure that nothing is missing. Also ensure that all components are in perfect condition. We cannot accept any liability for transport damage on parts which have already been assembled or installed.

We reserve the right to make alterations which reflect technical progress.

If you fit your swimming pool with electrical equipment (e.g. filter system, underwater spotlights, counter-current unit etc.), all electrical work involved must be carried out by a recognised specialist company in accordance with relevant DIN and VDE regulations (e.g. DIN VDE 0100 Section 702).

Before beginning installation, you must observe the following points:

Preparing the foundations:

The ground location for the swimming pool must be firm and completely level; sloping areas must therefore be dug out.

The ground under the swimming pool must consist of naturally compacted soil and not simply be filled in. Filled-in soil must be compacted so that the pool does not sink into it. **We always recommend installing a concrete baseplate.**

The soil must be freed from any pieces of wood or other debris which could damage the PVC liner.

In the case of an asphalt or concrete base the PVC liner must be protected from direct contact with the ground. We recommend the use of our PE protective ground tarpaulins for this, or insulating and protective matting.

Please be sure that the PVC liner only comes into contact with materials which are compatible with PVC. We therefore always recommend Future Pool PE protective ground tarpaulins or insulating and protective matting as underlay.

Temperature

The PVC liner of your swimming pool is made from thermoplastic material. You should therefore make sure that you assemble your pool under external temperature conditions of approx. + 15° C to +25° C. And you should also not hang the liner in the pool in strong sunlight; on warm and sunny days you should wait until evening before hanging the liner.

Above-ground or in-ground?

Caution: The SWIM oval-shaped pool is only suitable for complete in-ground installation! Retaining walls are necessary along the parallel sides!

Preparing pool foundations

The ground surface in the area of the foundation pit for the swimming pool must satisfy static requirements. The ground under the swimming pool must consist of naturally compacted soil and not simply filled in. Filled-in soil must be compacted so that the pool does not sink into it. However, it is better if the pool is located on a concrete baseplate.

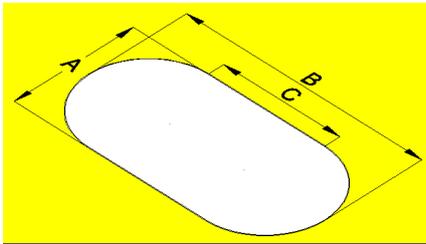
On no account use fill-in soil on sloping locations! Slopes must be dug away. Remaining sloping sides must be supported by retaining walls. On no account must the pool wall shore up the slope! Drainage must be installed if the ground slopes down to the swimming pool or where groundwater is encountered! If in doubt you should consult a building expert, as we accept no liability for in-ground installation.

Excavating the pool foundations

Keep to the minimum dimensions of the foundation pit set out in the table below!

Size of swimming pool	Dimensions of the foundation pit		
	A	B	C
450 x 300 cm	360 cm	490 cm	190 cm
530 x 320 cm	380 cm	570 cm	250 cm
623 x 360 cm	420 cm	663 cm	310 cm
700 x 350 cm	410 cm	740 cm	390 cm
737 x 360 cm	420 cm	777 cm	420 cm
800 x 400 cm	460 cm	840 cm	440 cm
916 x 460 cm	520 cm	956 cm	496 cm
1100 x 550 cm	610 cm	1140 cm	590 cm

Area of the foundation pit



Using a suitable adhesive attach 20 mm-thick Styrodur panels or other insulating panels which are suitable for use in soil to the internal sides of the retaining walls, leaving approx. 25 mm free for the wall tracks above the baseplate.

Please note: Take the advice of a building expert. We cannot accept any liability for installation mistakes and damage which result from faulty construction of the retaining walls!

Pool assembly

Depending on pool size, assembly should be carried out by 2-4 persons. We recommend that you wear gloves when erecting the steel wall.

Laying out the wall tracks

Plug together the individual hard-PVC wall tracks (width approx. 22 mm) using two connector pins for each join and lay them out in the shape of the swimming pool.

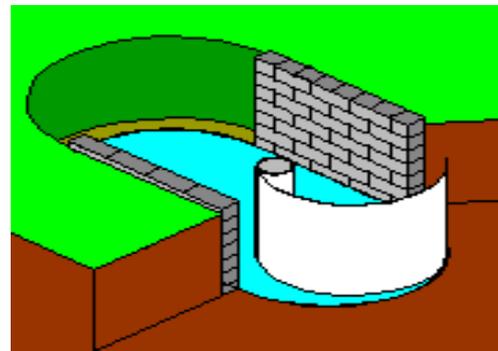
Caution: Wall tracks must not sink into the ground! It may be necessary to construct a concrete baseplate as support.

Carefully check the dimensions of the pool and the symmetry of the wall tracks.

Uncoiling the steel wall

Together with your helpers, place the steel wall on strong planks in the middle of the circle of wall tracks. Uncoil the steel wall and locate it in the wall tracks.

Make sure that the white-coated side is on the outside and that the pre-punched holes for the skimmer and the inlet nozzle are at the top.



Caution: The pre-punched skimmer hole is located approximately 200 cm away from the outer wall end. Make sure when locating the steel wall in the wall tracks that the skimmer hole is also located in the correct required place. In the case of swimming pools with 2 steel walls the skimmer hole is located in Wall 1.

The location of the skimmer should be at the downwind end of the pool relative to the direction of the prevailing wind, so that air movement reinforces the effectiveness of the filter system by driving surface dirt towards the skimmer.

An important tip: In order to provisionally hold up the steel wall, lay some of the handrail sections on the upper edge of the steel wall. Also, always make sure that the steel wall is standing in the wall tracks. We recommend the use of screw clamps as an assembly aid for the retaining walls.

Depth of foundation pit (excavation depth):

Depth of swimming pool	Depth of the foundation pit	
	Without baseplate	With baseplate; thickness approx. 20cm
120 cm	approx. 120 cm	approx. 140 cm
150 cm	approx. 150 cm	approx. 170 cm

We recommend concreting a baseplate with steel reinforcement and a thickness of approx. 15 – 20 cm (depending on soil conditions). Please discuss this with a building expert. Construct the baseplate across the whole width of the foundation pit, so that the retaining walls can be built on top of the baseplate.

Building the retaining walls

Retaining walls must be built to support the straight sides. For constructing the retaining walls use prefabricated wall blocks or precast concrete blocks with a width of 24 cm. Push reinforcing-steel rods (10mm) from above through the openings in the wall blocks. Fill in all openings with concrete.

If you have not constructed a concrete baseplate you will need foundations for the retaining walls. To build these, excavate approx. 70 cm-deep foundation trenches and fill them with concrete (steel reinforced) to approx. 5 cm below ground level.

Caution (only applies in the case of a concrete baseplate or continuous foundations): If ground conditions are insecure we recommend concreting the retaining walls and strengthening them with reinforcing steel, in each case connecting them with the baseplate or the foundations (in order, for example, to prevent caving-in of the retaining walls when the pool is empty).

Height of the retaining walls

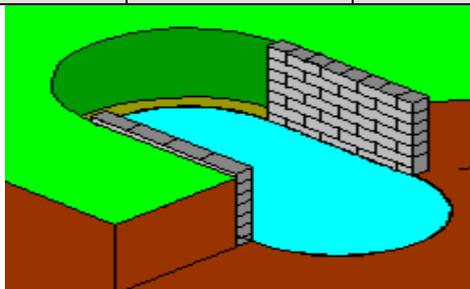
(measured from the upper edge of compacted or levelled ground area, or of the concrete baseplate)

Depth of pool 120 cm = 115 cm

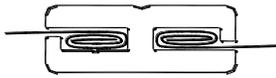
Depth of pool 150 cm = 145 cm

Keep strictly to the given dimensions for the retaining walls. The pool sides of retaining walls must be absolutely straight!

Dimensions of the swimming pool	Distance between retaining walls	Length of the retaining walls
450 x 300 cm	304 cm	180 cm
520 x 320 cm	324 cm	230 cm
623 x 360 cm	364 cm	293 cm
700 x 350 cm	354 cm	380 cm
737 x 360 cm	364 cm	407 cm
800 x 400 cm	404 cm	430 cm
916 x 460 cm	464 cm	486 cm
1100 x 550 cm	554 cm	580 cm



Connecting the ends of the steel wall using the plug-in section



The clearance between the steel-wall ends should be approx. 5 mm. Depending on the overlap of the wall tracks, they must be shortened to size in the curves. Make sure that you shorten the wall tracks by the same amount in both semicircles, as otherwise the symmetry of your pool will be spoiled. The straight wall tracks are already cut to the correct length. The plug-in section is sitting correctly when the bevelled side is **on the inside and at the top**. By gently rocking the plug-in rail back and forth you can ease insertion into the plug-in section. To further facilitate insertion of the plug-in rail you can lubricate both ends of the steel wall with engineering Vaseline.

Preparing openings for connections

If built-in components are to be installed (skimmer, inlet nozzle), you must break out the corresponding pre-punched holes. Carefully remove burrs and treat with an anti-corrosion agent.

Caution: Follow the instructions for built-in components!!!

Fixing the steel wall

In the area of the retaining walls you must fix the steel wall 5 cm below the retaining-wall edge (110 cm from the floor for a pool height of 120 cm and 140 cm from the floor for a pool height of 150 cm) with the screws and dowels provided. Fixing must be carried out in a horizontal line and must be absolutely firm. If in doubt, add further screws and dowels. Cover screw heads with PVC-compatible adhesive tape (e.g. parcel tape) to protect the liner.

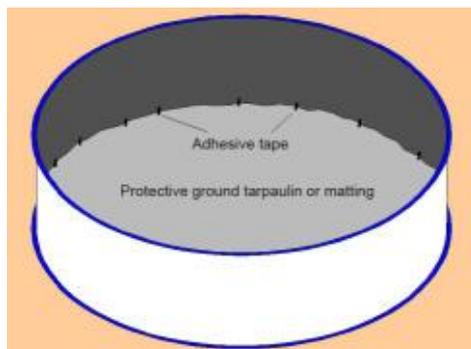
Earthing the swimming pool

According to statutory regulations, swimming pools and all large-area metallic parts must be connected to a potential equaliser.

Caution: All electrical work must be carried out by a recognised specialist company in accordance with the relevant DIN and VDE regulations (e.g. DIN VDE 0100 Part 702).

Laying out the protective matting or protective ground tarpaulin (not supplied)

We recommend the use of a protective ground tarpaulin or matting to protect the liner from direct contact with the ground or with any materials which may be harmful to PVC.



Thoroughly clean the ground again and then lay out the protective matting, with the individual sheets butting up against each other. Cut the protective ground tarpaulin or matting 5 –

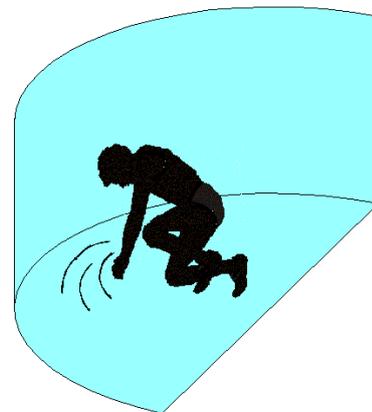
10 cm larger than the pool outline and tape the resulting overlap firmly to the steel wall. Pull the edges over the wall tracks. To do this, use PVC-compatible adhesive tape (e.g. parcel tape). Lay out the protective ground tarpaulin or protective matting smoothly and free of creases.

Hanging the liner

Caution: Hang the liner at temperatures between +15 and +25° C, but not in strong sunshine! If the temperature is too high the foil becomes soft and elastic and too large. If the temperature is too low the liner becomes hard, inelastic and too small.

Clean the inside of the pool again. Now place the liner in the middle of the pool and spread it out, so that the outer bonded seams lie up against the steel wall. The liner has a shaped hanging fringe bonded onto the main liner. Push the liner edges with the shaped fringe over the upper edge of the steel wall. Provisionally fix the fringe with several individual handrail sections.

Caution: Only walk on the PVC liner barefoot or wearing suitable shoes (**no rough-studded rubber boots!**).



Smoothing out the creases

Smooth the creases on the floor outwards towards the pool wall. Now let water into the pool until the middle is covered to a depth of approx. 2 – 3 cm. Smooth any remaining creases outwards from the centre by hand.

If the creases cannot be smoothed out:

Have the wall tracks sunk into the ground? **Lift them up!** Have you overstretched the liner when hanging it in the pool? **Rehang the liner**, perhaps after waiting for cooler weather. Do not pull on the liner when hanging it! Is there too much tension in the liner? If so, you have probably excavated the foundations too deeply. Then it is essential to fill in as necessary, not forgetting to firmly compact any fill.

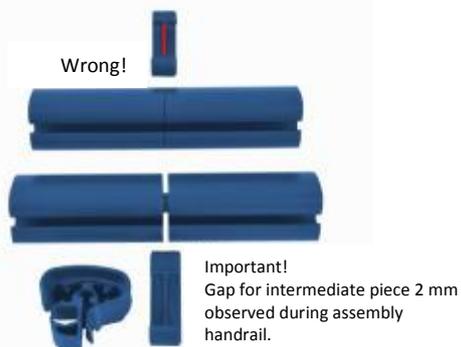
Caution: from a water depth of approx. 5 – 6 cm the liner can no longer be smoothed out because of the high water pressure.

Caution: It is essential to check that the pool is standing absolutely vertically.

Cover the pool floor with approx. 10 cm of water. Measure the distance between the waterline and the upper edge of the pool at several points. **If the measured values differ by more than 2 cm the pool has been incorrectly erected. In this case the manufacturer's guarantee is no longer valid!**

Attaching the handrail sections

Join the handrail sections (width approx. 40mm) together in each case with two round connectors; press them onto the edge of the pool by banging with the flat of the hand or using a rubber hammer, at the same time firmly fixing the shaped hanging fringe. If necessary, shorten one handrail section.



Correct any liner creases along the side wall by pushing the liner sideways. When the liner is sitting correctly, completely press down the handrail by banging down with the flat of the hand or with a rubber hammer.

Built-in components are first installed after the pool has been filled up to just below their installation locations (depending on the height, the lean-concrete backfill must be in place to the respective depth). **If you want to use silicon when flanging built-in components, then it must be suitable for use in swimming-pool areas. Otherwise there is the danger that the PVC foil will stretch in the long term and that foil creases will develop.**

Lean-concrete backfill along the curves and behind the retaining walls

Fill the fully assembled and installed pool with water (to a depth of approx. 60 cm).

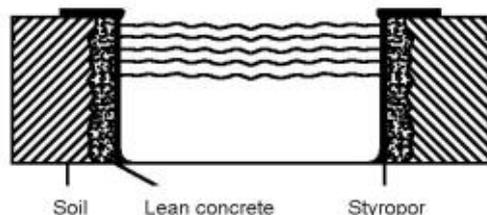
Attach Styropor panels (thickness 15 – 25 mm) to insulate and protect the outside of the steel wall along the length of the curves.

Backfill the pool wall in several layers (each maximum 50 cm.) with damp lean concrete BN 10.

In the case of naturally compacted soil (e.g. cohesive clay), the concrete backfill must be at least 10 cm thick. For yielding soils we recommend a backfill layer of approx. 30 cm. The retaining walls must also be backfilled as water-depth increases.

When backfilling, the water level in the pool must always be approx. 30 cm above the external concrete fill.

When backfilling the pool with concrete you must take care that the pool wall does not lose shape on account of the pressure from the concrete.



Repairs/Spare parts

Damage to the swimming-pool liner can easily be repaired using a Future Pool Repair Set. Please be sure to follow the instructions in the repair pack.

Care and maintenance

The combination of mechanical water purification and chemical water treatment ensures clean and clear water at all times.

Mechanical water purification

Prevent contamination by dirt (e.g. leaves, grass, hair) by installing a filter system from Future Pool. Remove coarse dirt (leaves, insects) with a net and/or floor cleaner from the Future Pool range.

Chemical water treatment

Future Pool supplies the complete **Future Pro-Aqua** water-treatment range with outstandingly suitable products which are also compatible with healthy swimming.

Additional recommendations and advice on water treatment are available from your specialist swimming-pool dealer or from your Future Pool customer-service representative. Please send for our detailed water-care instructions.

Overwintering

All in-ground pools **must** remain filled with water throughout the winter in order to compensate for ground pressure. The water level should be lowered to approx. 5 cm below the openings for the inlet nozzle and the skimmer.

Safety advice

General precautions

Never allow children to play in or close to the swimming pool without supervision; explain the possible dangers to them. If necessary, teach children to swim. Cover the pool if it is not being used. Go into the water very slowly after a meal or after sunbathing. **Otherwise there is a danger of circulatory collapse or heart failure!**

Immediate action after a swimming accident:

Rescue the casualty without delay. Check the casualty's pulse and breathing. If necessary, immediately apply mouth-to-mouth resuscitation and heart massage. Alert the emergency services.

Ordering spare parts / Advice

Do you need spare parts, accessories or advice?

Please contact the dealer from whom you bought your pool. There you will be able to obtain all available spare parts as well as the whole range of Future Pool products.

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Future Pool GmbH

Innovative Products for Swimming Pools
Daimlerstr. 6

D-63741 Aschaffenburg

Telephone +49 (0) 6021 / 79750-0

Fax +49 (0) 6021 / 79750-10

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