

Liner Swimming Pool Installation Guide for Swimming Pool Renovations & Liners Replacement

Please read all notes, installation graphics, pictures and video above prior to ordering materials.

Material thicknesses for So-Soft insulation finish:

Swimming pool liner is laid directly onto Thermapool insulation. So-Soft is only advisable for domestic pools using pre-tailored liners. So-Soft gives the swimming pool a softer carpet feel, but you may be able to see joints in the insulation or where the fixings are.

75mm Thermapool Insulation Board.

Total thickness 75mm

Material thicknesses for insulation and render finish:

This gives the insulation a solid uniformed hard finish recommended for schools or for on-site lined swimming pools.

75mm Thermapool Insulation Board.

4.5mm Thermapool Render and mesh.

Total thickness 80mm

Recommend number of fixings:

4 fixings per wedge

8 fixings per insulation sheet

Fixings should be installed 70mm in from the edges and spaced evenly, more fixings maybe required if the boards do not sit flat onto the pool structure.

Bonding the insulation

Bonding is only required if the structure of the pool is not sound enough to take a mechanical screw fixing, bonding materials are extra.

If bonding Thermapool Insulation, use Thermapool Insulation Adhesive on both the swimming pool structure and the back of the Thermapool Insulation Board, pushing them firmly together to achieve 100% adhesive bed.

Insulating around Corners

Radius corners should be insulated using the bendy boards, slots are manufactured into the board to allow it to fit around the curve, which should be secured using the same methods as for the panels above, with any gaps being filled with the insulation adhesive.

Pre Installation Notes

For liner swimming pools the Thermapool insulation boards are usually secured to the walls and floor of the pool structure using a stainless steel screw, with a washer and raw plug. If the structure of the swimming pool is not sound it may be necessary to bond the insulation boards to the wall or bond and use the mechanical fixings.

We provide chamfered (75-0mm) wedge shaped insulation boards for the top of the swimming pool, this allows you to use the existing coping stones and liner lock without the need for any modification to them. If coping stones are to be replaced then the chamfered board is not required, please see new build installation guide for this technical installation detail.

Pool fittings

There are two options to insulating around existing fittings like inlets, lights, sumps, drains and vacuum points:

Option 1: The preferable method is to extend the fitting so that they are flush with the new insulated finish. The fittings can be extended using the tread on the existing gasket cover plate, insert a male nipple into the cover plate and then tread on a new eyeball inlet cover plate to bring the fitting flush with the insulation finish.

Certikin's product codes: Nipple GP112NMT or Nipple GP112THN and Eyeball inlet HD53L

Option 2: Alternatively we can provide chamfered insulation panels, see technical drawings for details. Note, if the fittings are not Certikin's standard white we will need to know the outside diameter measurement of the fitting at time of order placement.

Note - you will need to inform us which of the above you intend to do when ordering your Thermapool insulation system.

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Remove the old swimming pool liner and prepare the swimming pool structure.

Assemble the stainless steel fixings by placing the washer over the screw and then screwing the raw plug on the end by two threads.

Start at the top of the pool wall below the liner lock with the insulation wedge. Drill through the insulation into the swimming pool structure, using a 7mm diameter drill that is able to drill a depth of 120mm.

Push and hammer the fixing through the insulation board into the pool structure. Then tighten the screw so the screw head and washer is sunk into the insulation by approximately 5-10mm.

The boards joints should have be slightly staggered, to lessen the visibility of the joints.

The wall insulation is taken down to the floor. The floor insulation butts up against the wall insulation, to avoid trapping any water passing behind the liner.

Cover the fixing holes and any gaps in the boards with the Thermapool Insulation Render.

If a rendered finish is required Thermapool Insulation Render and mesh can be applied to the insulation to give a hard uniform surface finish. The Thermapool insulation render should be mixed with water to the same consistency as plaster coat. The render should be applied to the insulation surface, with the aim of achieving a 4-5mm coat. At this stage the mesh is laid on top of the wet render and a steel trowel used to push it just under the surface, leveling and smoothing the render as you go.

All mesh joints should overlap by 100mm making sure there is render mix between the two pieces of mesh. Trowel to the final smooth finish once the render has slightly hardened using a clean damp steel trowel.

Once the render has cured normally two to three days, install the new swimming pool liner, ensuring that the liner is vacuumed back into the chamfered insulation panels to avoid any creasing.

Note- We recommend a method of draining the pool is always on site subject to any water table issues. If the swimming pool should become full of water prior to the liner being installed it is recommended to re-tighten all insulation fixing. If underwater the insulation will try to float up which may loosen the fixing with a possibility of showing up later once the liner is installed.

Post insulating your swimming pool

Once insulated, Thermapool gives you a brand new energy efficient liner swimming pool, cutting your Co2 emissions, bringing your swimming pool up to current energy efficiency standards and allowing you to have your swimming pool hotter for longer.

Everyone building a new outdoor swimming pool or when renovating an indoor or outdoor swimming pool which includes replacing the swimming pool liner, is entitled to a Swimming Pool Insulation Grant