



# SOPREMAPOOL

**Installation manual** for reinforced  
swimming pools membranes

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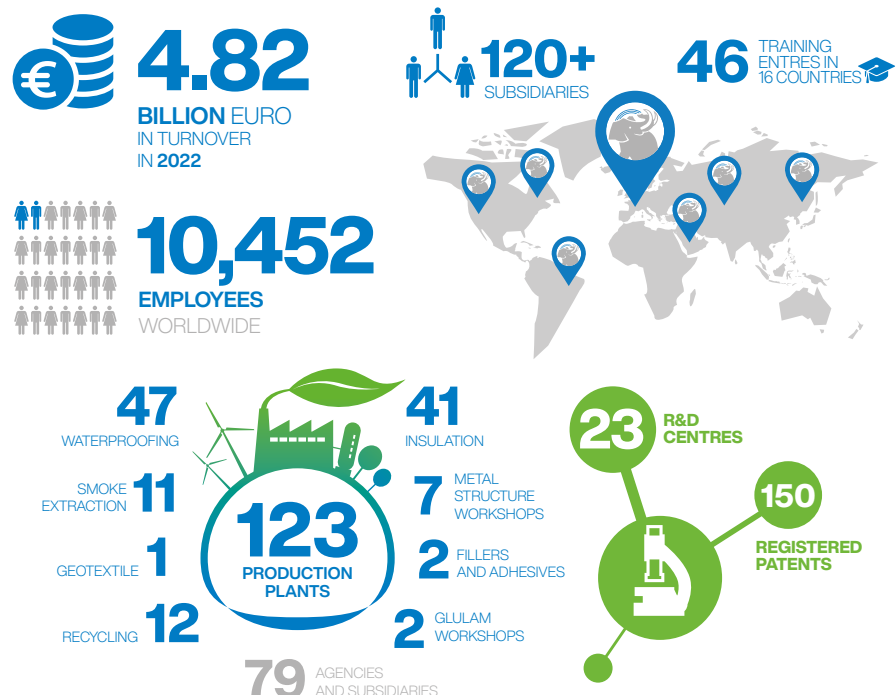
A family business since 1908, **SOPREMA** has established itself in recent years as one of the world's leading companies in waterproofing and thermal and sound insulation.

The development of our construction solutions is the outcome of close partnership between our customers, our sales, purchasing and technical departments, and our research and development centres.

Our product range is innovative and perfectly in line with market requirements and current standards. **SOPREMA** products and services aim to meet the most discerning needs of construction professionals in terms of waterproofing roofs, reinforced synthetic membranes for waterproofing swimming pools, civil engineering projects, thermal and sound insulation, and photovoltaic and green roofs. At **SOPREMA** we work every day with our customers to find the right solution for each kind of need.

**SOPREMA** is a byword for strength and robustness with an outstanding track record and worldwide recognition for the quality of our reliable, durable and efficient products and systems.

At **SOPREMA** we are passionate about sustainability and working towards a sustainable construction model addressing two main points: manufacturing energy-efficient products and putting in place a closed, circular lifecycle construction model which makes it possible to reuse construction waste. A fresh vision of construction with more responsible and environmentally-friendly practices needs to be fostered.





## SOPREMAPOOL

**SOPREMA**, a world leader in manufacturing waterproofing systems, delivers a wide range of reinforced synthetic membranes and other add-on products for installing and maintaining swimming pools under the name **SOPREMAPOOL**.

**SOPREMAPOOL** membranes are reinforced PVC liners manufactured by impregnation with high quality raw materials (resins, plasticisers, stabilisers and pigments). They consist of four layers, introducing with a reinforcing polyester mesh perfectly centred, between the second and third layer. This reinforcement provides the membrane with high tensile strength and dimensional stability.

Their formulation and production process have been specifically designed to meet the strict performance parameters set by the European standard EN 15836-2 of 2010.

SOPREMAPOOL membranes are designed to **waterproof, protect** and **decorate** the pool. They are ideal for new pools and for renewing existing ones, whether **private, public** or in **water parks**. With **SOPREMAPOOL** you can get the desired pool shape and achieve a perfect visual result, all with significant savings in the construction of the swimming pool both economically and in times. They can be installed on **any structure**: reinforced concrete, prefabricated reinforced concrete, polystyrene blocks and prefabricated metal panels.

[This manual](#) describes and illustrates with the help of photographs, diagrams and technical drawings the most commonly used installation systems and the methods for carrying out the main implementation details. It also looks at the main cases and issues which may come up during installation.

For special cases, please email our technical department at [sopremapool@soprema.com](mailto:sopremapool@soprema.com)

# Pool Training

## COURSES SPECIALLY DESIGNED FOR SWIMMING POOL INSTALLERS

At **SOPREMA** we are committed to making the sector more professional. This is why we invest in training swimming pool installers. Our goal is to offer specialised courses tailored to the professional's needs and experience. Our aim is to share the Soprema Group's knowhow in synthetic waterproofing with reinforced membranes.

## PROFESSIONAL PURPOSE

Our courses are designed by our trainers and technical managers to deliver the most up-to-date techniques in line with current regulations and following best practice.

They are arranged in independent units, making it easier to specialise in learning and providing flexibility for the student. All **SOPREMAPOOL** products are taught so that students can easily apply them.



# STRUCTURAL CONTROL

The reinforced membrane covers the pool structure and is also the system which ensures it is completely watertight.

**SOPREMAPOOL** membranes can be installed on existing or new structures. These can be of any kind: concrete, cement, masonry (only with a trowel finish), prefabricated steel or aluminium panels and polyethylene or polystyrene blocks.

For finishing with bricks, concrete or plaster, only cementitious mortars and fillers should be used (never lime).

Check that the foundations are solid enough for the insertion of mechanical fastenings (expansion nails, rivets, wedges, etc.)

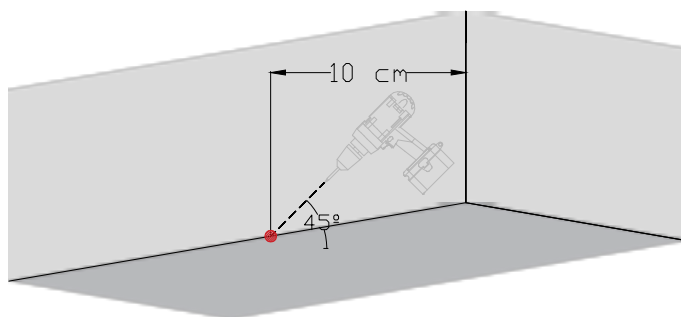
To ensure the reinforced membrane is installed properly, horizontal (bottom of the pool, treads of the steps and/or seating) and vertical (walls and/or risers) surfaces must be orthogonal to each other.



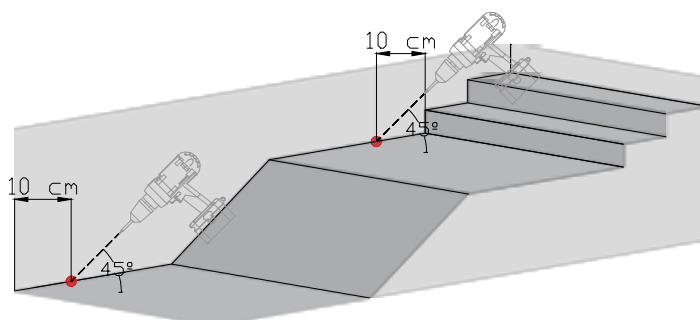
The difference between the temperature of the ground and the pool causes condensation to form. The structure must therefore allow the humidity to drain away to prevent it stagnating between the structure and the membrane.

It is also advisable to install a surge tank with a peripheral drainage system.

To do this, drill a 45° hole at the lowest point of the pool as shown in the drawing below. It must be drilled completely with a drill bit no smaller than 2.5 Ø x 25 cm.



For pools with more than one slope you need to drill at two points as shown in the drawing below:



## New pools

In the case of newly built pools, you only need to clean the structure and disinfect it with **Sanitary** to remove any remaining organic matter and thus prevent the spread of microorganisms.

(See instructions for use on page 15.)



## Renovation

When renovating a swimming pool, it is important to follow these steps:



### COMPATIBILITY OF ACCESSORIES

In order to be compatible with PVC-P membranes, all accessories (gratings, drains, skimmers, impellers, lights, etc.) must have a double seal to guarantee perfect watertightness. If not, they must be replaced.



### CHECKING THE WATER SYSTEM

It is recommended to pressure test all circuits to rule out water leaks.



### REPAIRING AND CLEANING THE STRUCTURE

**SOPREMAPOOL** reinforced membranes must be laid directly on clean and even structures, completely free of roughness. Otherwise, the presence of irregularities, in addition to presenting obvious unsightly imperfections, could lead to tearing and damage to the membranes.

When renovating painted pools, the existing coat of paint must be completely removed by mechanical cleaning (e.g. sandblasting).



### DISINFECTING THE STRUCTURE

Finally, as with new pools, it is essential to disinfect the pool structure.

(See instructions for use on page 15.)

# TOOLS

## SOPREMAPOOL Installation kit

The **SOPREMAPOOL** products you need are:

- Sanitary for disinfecting the structure.
- **SOPREMAPOOL** Tex 350 PP geotextile.
- Alsan Bond Pool SP spray adhesive.
- **SOPREMAPOOL** membrane from the selected range.
- **SOPREMAPOOL** Grip non-slip membrane where required.
- Welding strip for installing **SOPREMAPOOL** 3D and Feeling membranes.
- Alsan Bond Pool 410 contact adhesive for detail bonding and welding strip.
- Fastening the membrane to the walls using:
  - Flat PVC metal strip.
  - Angle PVC metal strip.
  - Aluminium profile + PVC cord and PVC border.
- 26.5 mm expansion nails.
- Liquid PVC for joints + applicator for application.
- Marking strips for marking swimming lanes in sports swimming pools.

1	Sanitary	151757
2	<b>SOPREMAPOOL</b> Tex 350 PP	255972
3	Alsan Bond Pool SP	152890
4	<b>SOPREMAPOOL</b> membrane	
	3D .....	156988
	Feeling .....	237460
	Design .....	156975
	Premium .....	156967
	One .....	156966
5	<b>SOPREMAPOOL</b> Grip membrane (non-slip)	237747
6	Welding strip	157622

7	Alsan Bond Pool 410	159005
8	Flat PVC metal strip	51344
9	Angle PVC metal strip	159821
10	Aluminium profile	159761
11	PVC cord	158498
12	PVC border	107237
13	Expansion nails	159762
14	<b>SOPREMAPOOL</b> Liquid PVC	156992
15	Liquid PVC applicator	159156
16	Marking strip	220276



# Toolkit

You will need these tools to install **SOPREMAPOOL** reinforced membranes:

- 220 V, 1400 or 1600 W hot air welding equipment (Leister type).
- 20 mm nozzles.
- 9 mm nozzles for welding the PVC cord.
- Compression roller with silicone rubber coating.
- Brass compression roller.
- Metal brush.
- Box cutter with full blade and cutter with hooked blade.
- Steel ruler (10 cm wide and at least 2 m long).
- Spirit level.
- Tape measure.
- Percussion drill with various drill bits.
- Welding tester.
- Scissors.
- Hammer.
- Pencil.
- Safety goggles.
- Gloves.

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# GEOTEXTILE

The geotextile is mainly used as a protective and separating layer between the pool structure and the **SOPREMAPOOL** reinforced membrane. The composition of the geotextile acts as a fungicidal barrier. This prevents the creation of unsightly stains on the membrane caused by the spread of microorganisms.

**SOPREMAPOOL Tex 350 PP** is a non-woven geotextile made of 100% polypropylene fibres. —●

## ADVANTAGES OF SOPREMAPOOL TEX 350 PP GEOTEXTILE

- Made of 100% polypropylene fibres.
- Separation: prevents contact between non-compatible materials by acting as a chemical barrier.
- Protection and reinforcement: provides puncture resistance to the **SOPREMAPOOL** waterproofing membrane.
- Biological resistance: protects against bacteria and fungi.

## HOW THE GEOTEXTILE HELPS THE REINFORCED MEMBRANE

- Prevents the spread of microorganisms, fungi and bacteria between the reinforced membrane and the pool structure.
- Extends the life of the membrane due to the protection it affords.
- Disguises irregularities in the structure so that the membrane is smoother and more even once installed.
- Avoids incompatibilities between the structure and the membrane.

The geotextile is used as a protective and separating layer. Highly recommended for both new builds and renovation.



## INSTALLATION OF SOPREMAPOOL TEX 350 PP GEOTEXTILE

When fitting **SOPREMAPOOL Tex 350 PP** geotextile, we recommend **Alsan Bond Pool SP**, a fast drying solvent-based spray adhesive for bonding the geotextile to the pool structure prior to installing the reinforced membrane. It is suitable for indoor and outdoor applications.



**STEP 1:** To prevent the geotextile from shifting during installation, it is advisable to fix it to the structure using the special spray adhesive **Alsan Bond Pool SP**.



**STEP 2:** **Alsan Bond Pool SP** adhesive can also be used to bond the geotextile to the pool floor.



**STEP 3:** Join the geotextile with aluminium tape. It is also necessary to protect the geotextile with aluminium tape at the points where the membrane will subsequently be welded as this will prevent the geotextile from getting burned.

## ADVANTAGES OF ALSAN BOND POOL SP ADHESIVE —●

- Quick and easy application.
- Clean application and fast drying.
- Excellent adhesion to most building materials such as cement-based materials, brick, ceramic tiles, glass, wood and galvanised and painted sheet iron.
- Perfect dosing without overspray.



# USING THE MEMBRANE

## Storage

**SOPREMAPOOL** membranes are supplied in rolls placed on wooden pallets, protected and separated by layers of cardboard and wrapped on the outside with opaque polyethylene film.

The rolls should be stored in a dry place protected against humidity and atmospheric agents and at between 10° C and 30° C.

## Cutting

To make installation work easier, the exact measurements of the pool taken with a specific measuring instrument should be marked on the roll. To do this, a guide line should be drawn with a metal ruler.

Cutting should be performed using a box cutter, preferably a hooked cutter, for large cuts and scissors for small cuts.

To avoid soiling or damaging the membrane, we recommend cutting on a clean surface or protecting it from the ground with a layer of geotextile.



Geometrically complex cuts should be made directly onsite (steps, pyramid-shaped bottom, curves, etc.).



# WELDING TECHNIQUE

## Hot air welding

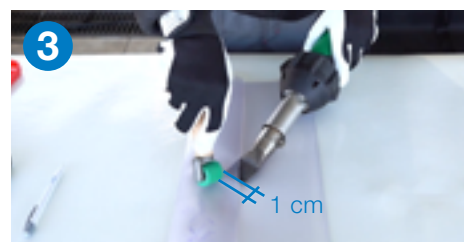
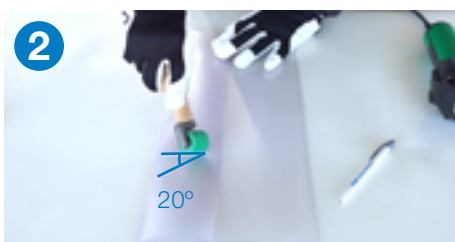
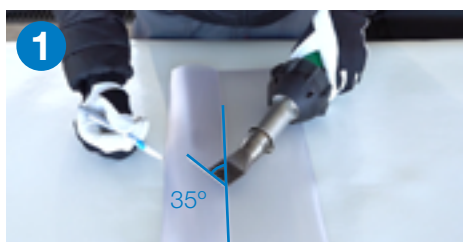
**SOPREMAPOOL** membranes should be welded using hot air supply equipment. To ensure welding operations can be performed successfully, it is essential that the edges of the membranes to be welded are clean and dry to avoid air bubbles due to the formation of steam during welding.

## Welding requirements

### ROLLER AND MACHINE ANGLE

Welding is carried out by inserting the nozzle between the two edges of the membrane (at an angle of around 35° with the 20 mm nozzle with respect to the welding line) while at the same time exerting constant pressure with the edge of the roller tilted at an angle of around 20° on the heated edges (see photos **1** and **2**).

The pressure with the roller should always be parallel to the nozzle, making sure that the roller runs at a distance of 1 cm from the nozzle (see photo **3**).



### SPEED

Welding speed should be around 80 cm/minute.

### TEMPERATURE

The optimum temperature of use to achieve a perfect weld generally ranges between 450° C and 490° C.



Working temperatures may vary depending on the atmospheric conditions at the site (humidity, temperature, wind, etc.).

We therefore strongly recommend you carry out a destructive weld test before starting the installation of all membranes onsite.



**! WARNING:** do not install the PVC-P membrane if the ambient temperature is below 10° C.

The required working voltage is 220 V.  
To avoid voltage losses:

- Do not use power supply cables which have a small diameter and are overly long.
- Do not use the same cable for the power supply of more installations.

Temperature: **450° C**

Roller and machine angle: **35°**

Speed: **80 cm/min.**



## Welding types

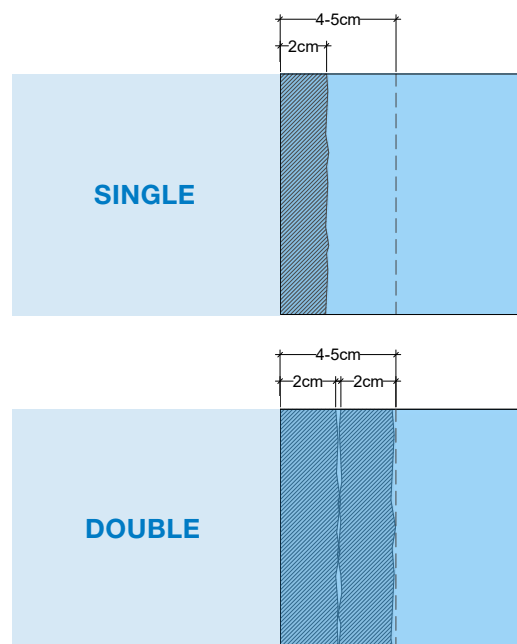
Two types of welding can be used to bond the membranes: single and double.

Single welding involves overlapping the two membranes by making a single 2 cm weld in the area of the overlap.

By contrast, double welding entails making two consecutive 2 cm welds to create a stronger and more resistant joint.



Double welding is especially recommended in areas where there is more traction such as at the bottom of the pool.



## Membrane bonding

Two main types of welding joints are used to weld the reinforced membranes: traditional overlap and butt welding.

### OVERLAP

The edges of the reinforced membranes should overlap by 4-5 cm and be fixed with spot welds every 15-20 cm before continuous welding is started.

### BUTT WELDING

The butt welding method is especially recommended for the installation of **SOPREMAPOOL 3D** and **Feeling** membranes for the best aesthetic finish. This method is carried out using the welding strip which is glued to the structure with [Alsan Bond Pool 410](#) adhesive and in which the two ends of the reinforced membranes are welded together in such a way as to avoid overlapping between them.



Due to the difficulty of this technique, the butt welding method is only recommended when installing the membrane at the bottom or on gentle slopes and never on the walls.

• (See pages [26-27](#).)



Overlap welding



Butt welding

# INSTALLATION STEPS

All stages of the installation of **SOPREMA**POOL reinforced membranes are shown below:

- ❶ Disinfecting the structure.
- ❷ Wall installation:
  - Sections in new swimming pools and in renovations.
  - Geotextile.
  - Membrane on the vertical surface.
  - Finish with the bottom.
- ❸ Stairs installation:
  - Geotextile.
  - Membrane.
- ❹ Bottom installation:
  - Geotextile.
  - Membrane.
  - Different bottom shapes.
  - Butt welding installation.
- ❺ Control of weldings and joint sealing.
- ❻ Accessories installation.



# 1. STRUCTURE DISINFECTION



Before installing the new membrane, the whole surface of the structure has to be properly disinfected with **Sanitary** disinfectant. This prevents the formation of moulds and bacteria which might attack the membrane.

## INSTRUCTIONS FOR USE

- ❶ Dilute 250 ml of **Sanitary** in 10 litres of water (2.5% solution).
- ❷ Mix well before use.
- ❸ Apply with a roller or spray the product evenly.
- ❹ Allow the product to dry on the structure.

The product should be stored properly closed in a dry and warm place.

The solution can be used to treat a surface area of about 35 m<sup>2</sup> (depending on the surface's roughness and porosity).



## 2. WALL INSTALLATION



There are various systems for attaching the membrane to the upper edge of the pool.

### Profiles in new swimming pools

ANCHORING VERTICAL SURFACES WITH ALUMINIUM PROFILES



The **aluminium profile** should be cut to size based on the perimeter of the pool to be lined. It is to be fixed to the coping by expansion nails or rivets placed at 25 cm intervals (see photo **1**).

Next, weld the 9 mm **PVC cord** to the end of the underside of the membrane to attach it to the aluminium profile. This will anchor the membrane to the pool's vertical surfaces (see photos **2** and **3**).

Fit a **PVC border** to lock the anchoring of the reinforced membrane and maintain the tension. This also delivers a better aesthetic finish (see photos **4** and **5**).



For better waterproofing and securing of the profile, a hybrid polymer sealant between the coping and the profile is recommended.



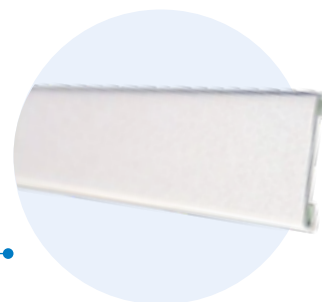
# Profiles in renovations

## ANCHORING VERTICAL MEMBRANES WITH A FLAT PVC METAL STRIP

This type of anchoring is recommended in renovations or when it is difficult to lift the coping piece.

The **flat PVC metal strip**, also known as a fixing plate, should be cut to size based on the perimeter of the pool to be lined. It should be fixed underneath the existing coping piece with flat-head screws placed at approximately 15 cm intervals (see photo 1).

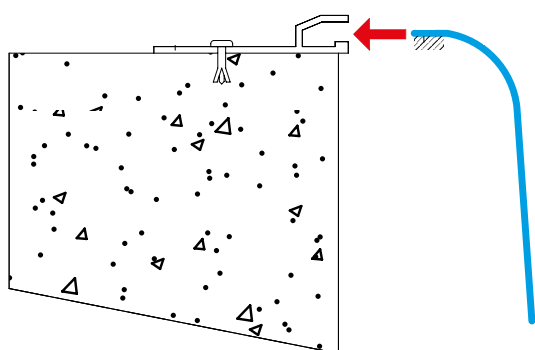
The membrane is then welded directly onto flat PVC metal strip (see photo 2).



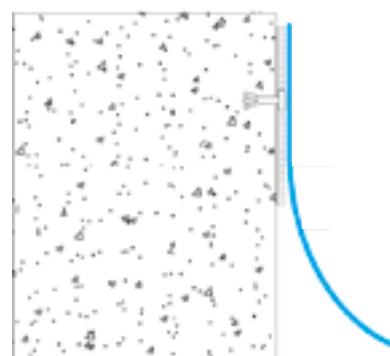
For better waterproofing and securing of the profile, a hybrid polymer sealant between the coping and the section is recommended.



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Anchoring vertical surfaces  
with aluminium profiles



Anchoring vertical surfaces  
with a flat PVC metal strip

# WALL INSTALLATION

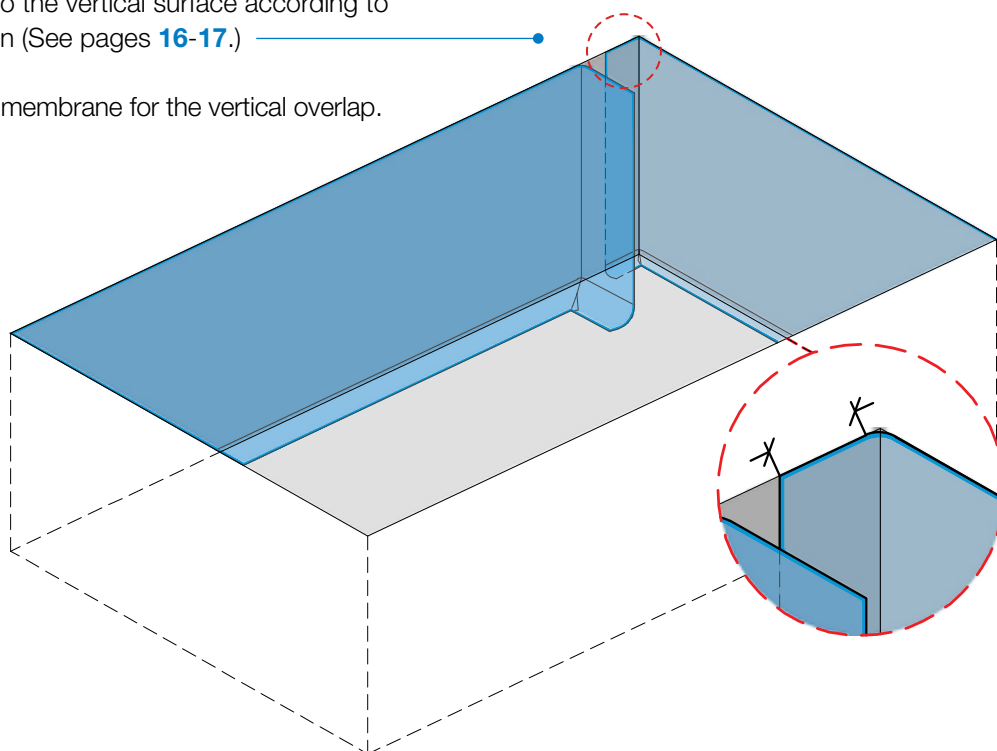
## Geotextile

SOPREMAPOOL Tex 350 PP geotextile is to be installed as shown on page 10.

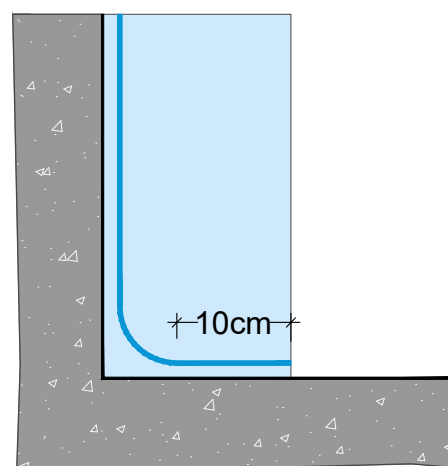
## Membrane on vertical surfaces

### LAYING OUT ON VERTICAL SURFACES

- Anchor the membrane to the vertical surface according to the type of section chosen (See pages 16-17.)
- Allow an extra 10 cm of membrane for the vertical overlap.



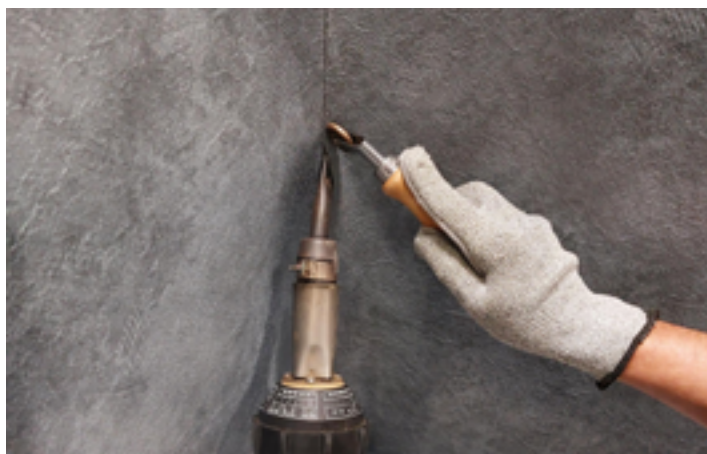
- Allow 10 cm for the overlap to be made between the wall membrane and the bottom membrane.



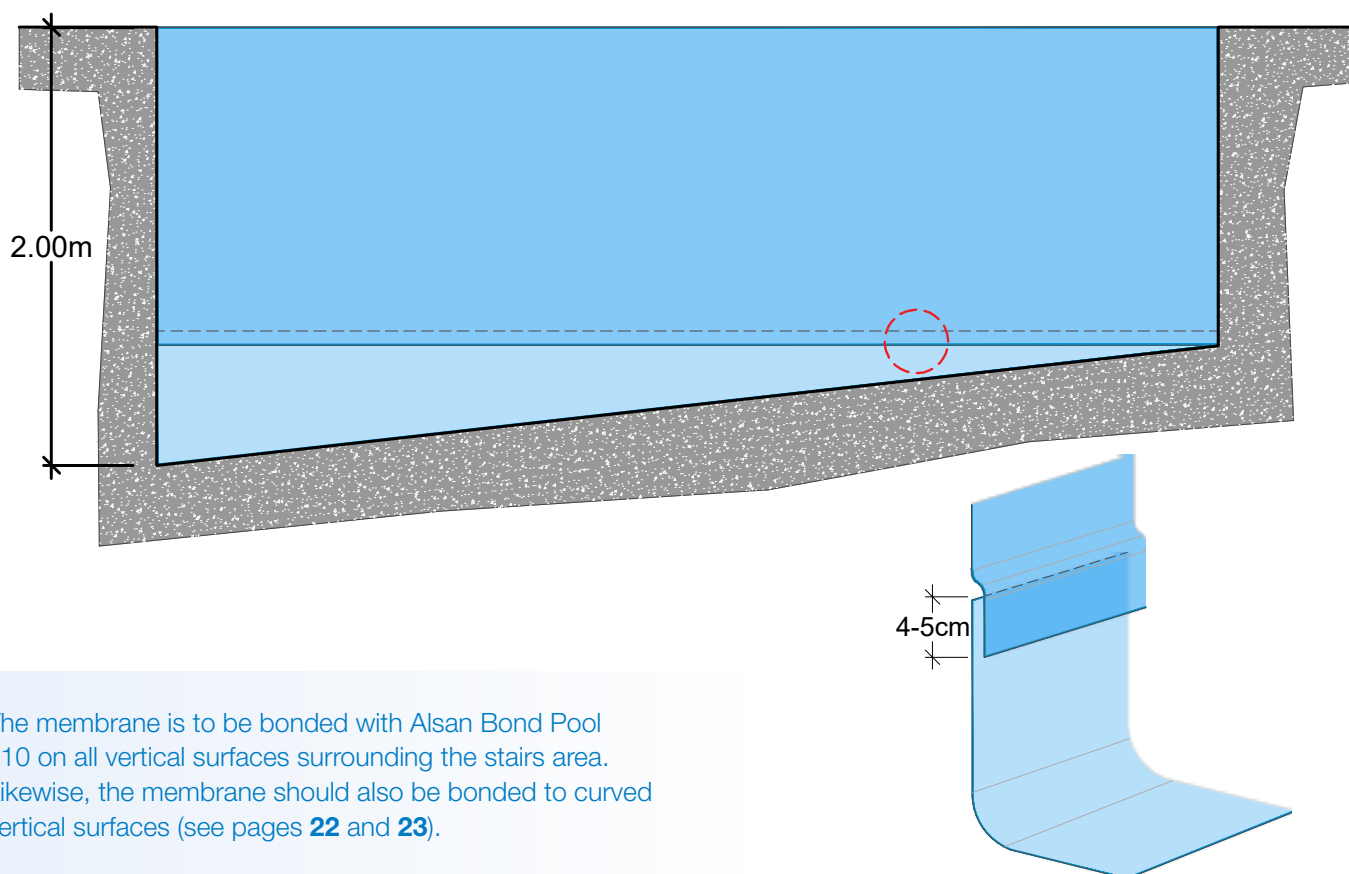
## WELDING ON VERTICAL SURFACES

Welding on vertical surfaces should be done by overlapping the membrane by about 10 cm.

To improve the final appearance, it is advisable to weld in the less visible areas or in the vertical angles. Do not weld near or on any accessories.



When the height of the pool walls is greater than the width of the reinforced membrane (165 cm), an additional part will have to be added. In this case, the two parts should be welded on a flat and clean surface so as not to damage the material. We recommend overlapping the added part underneath as shown in the drawing below:



The membrane is to be bonded with Alsan Bond Pool 410 on all vertical surfaces surrounding the stairs area. Likewise, the membrane should also be bonded to curved vertical surfaces (see pages **22** and **23**).

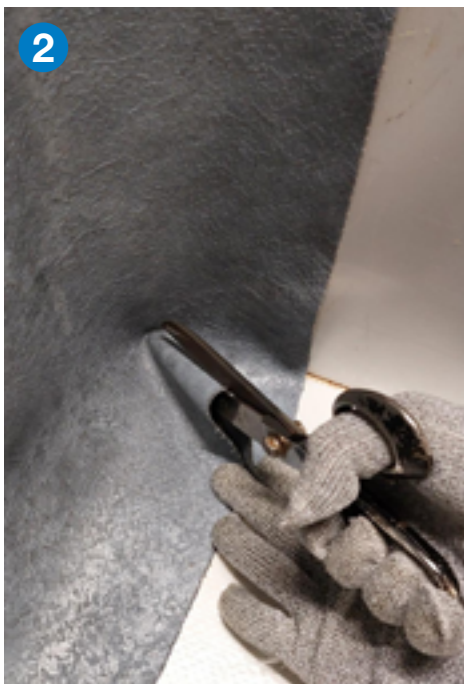
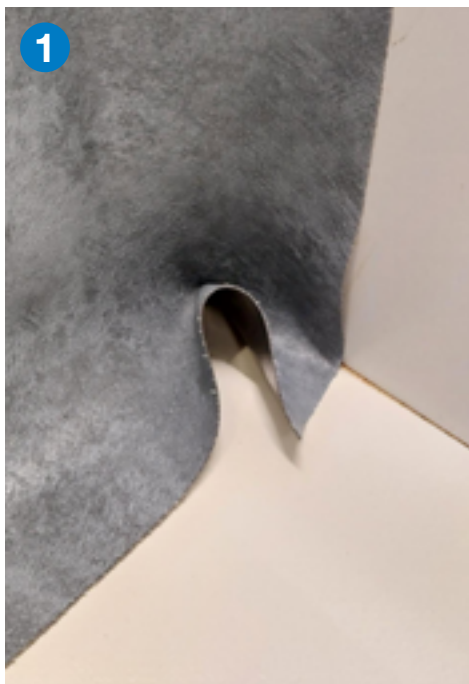
# WALL INSTALLATION

## Bottom

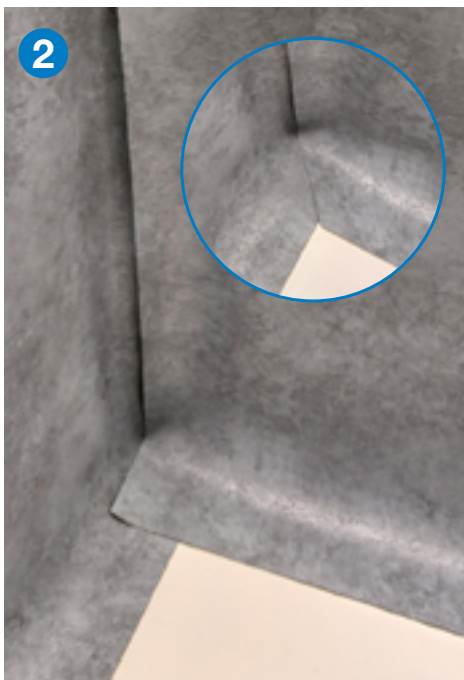
### DOING THE ANGLES

Follow the steps below:

**STEP 1:** Form the angle and cut at 45° without reaching the corner (leaving 1 mm).



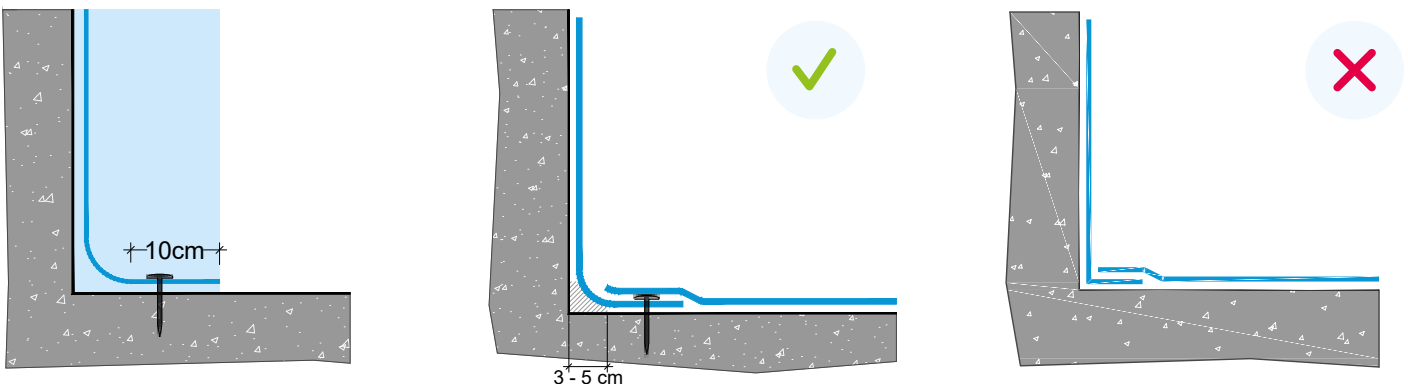
**STEP 2:** Weld the vertical angle to itself from the inside to the outside of the corner (see photo 1). Then fit and weld the membrane on the adjoining wall (see photos 2 and 3).



## INSTALLATION OF THE WALLS AT THE BOTTOM

There should be an overlap of at least 10 cm between the wall membrane and the bottom of the pool so that the bottom membrane can then be welded to it.

Position the membrane 3 to 5 cm away from the angle formed by the side wall and the bottom of the pool. The water pressure will push the membrane in at an angle, preventing wrinkles from forming.

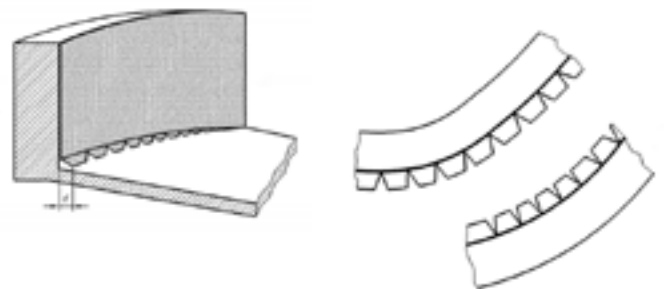


Repeat this operation along the entire perimeter, securing the membrane with expansion nails every 15 cm.

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For best visual appearance, especially if the pool has an irregular shape, you will need to cut the sticking out parts with care.



The butt welding method is not recommended for walls due to its technical difficulty.

# 3. STAIRS INSTALLATION



## Geotextile

The geotextile does not need to be installed on the steps as the membrane is glued directly to the structure. However, for the best aesthetic finish we recommend using **SOPREMAPOOL Tex 350 PP** geotextile on the tread of the steps to make the bather's footing smoother and more comfortable.

## Membrane

### NON-SLIP FINISH

**SOPREMAPOOL** reinforced membranes with special Class C non-slip embossing can be used to cover all areas of the pool where there is a slipping hazard such as shallow areas ( $\leq 1.5$  m) and step treads.



### CUTTING

For risers, 5 cm should be allowed for overlapping on the steps. This area does not require a non-slip membrane.

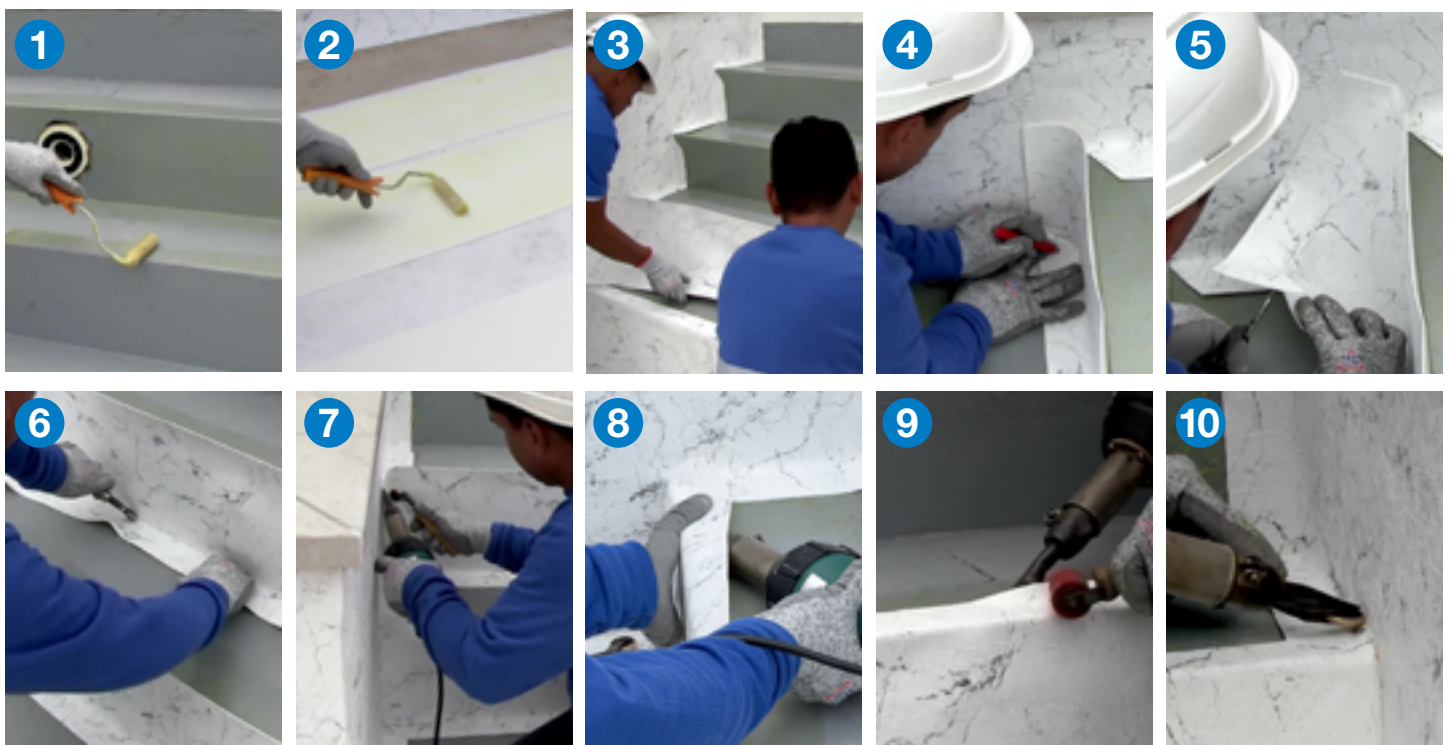
For step treads, the non-slip membrane has to be cut to their exact size.

### STEP 1: RISER

On all step risers the membrane has to be glued by applying **Alsan Bond Pool 410** adhesive both on the membrane and on the structure, respecting the 5 cm overlap of all the joints with the adjacent faces.

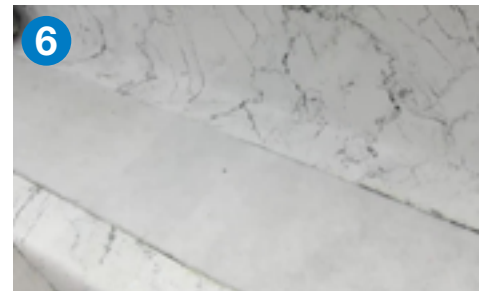
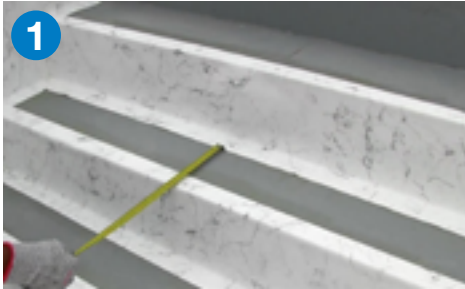
The hot air equipment activates the adhesive to help deal with the most critical points.

To avoid excessive overlapping of the membrane at the joints, the excess membrane should be cut at 45° and chamfered.



## STEP 2: GEOTEXTILE ON TREADS

For the best aesthetic finish, we recommend using **SOPREMAPOOL Tex 350 PP** geotextile on the treads of the steps (areas in direct contact with the structure) so that the bather's footing will be smoother and more comfortable.



## STEP 3: MEMBRANE ON TREADS

A **reinforced non-slip membrane** is to be installed on the treads of the steps and in all areas  $\leq 1.5$  m deep.



**SOPREMAPOOL 3D and Feeling membranes** are non-slip. For membranes in the **SOPREMAPOOL Design, Premium and One** ranges, the non-slip **SOPREMAPOOL Grip reinforced membrane** should be used.



# 4. BOTTOM INSTALLATION



## Geotextile

Before starting installation on the bottom, it is essential to clean its surface as it has to be unsoiled and free of irregularities.

**SOPREMAPOOL** Tex 350 PP geotextile should be installed as specified on page 10.

## Membrane

### INSTALLATION OF THE BOTTOM MEMBRANE WITH OVERLAP ON THE WALLS

Cut the membrane according to the type of pool bottom and weld it to the wall membrane.



The standard width of **SOPREMAPOOL** membranes is 165 cm and overlaps of 4 to 5 cm should be allowed for.



Once the membrane has been welded, it is essential to check the weld with the [Welding tester](#) tool to ensure that it is watertight (see more details on page 28).

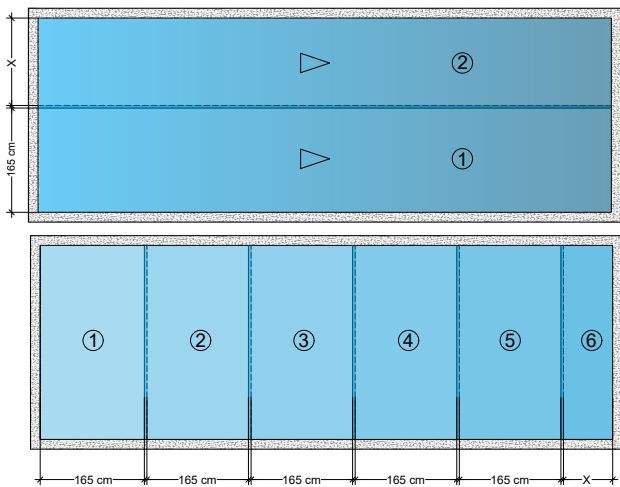
In addition, all welds must be sealed with [Liquid PVC](#) (see more details on page 28).



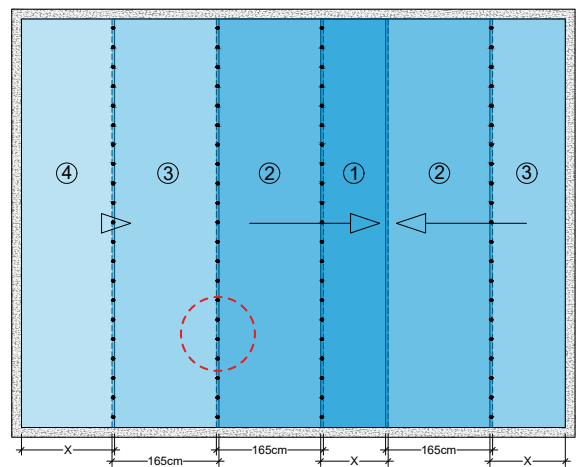
# Different bottom shapes

Depending on the type of pool bottom, the reinforced membrane should be installed in the order shown in the following drawings.

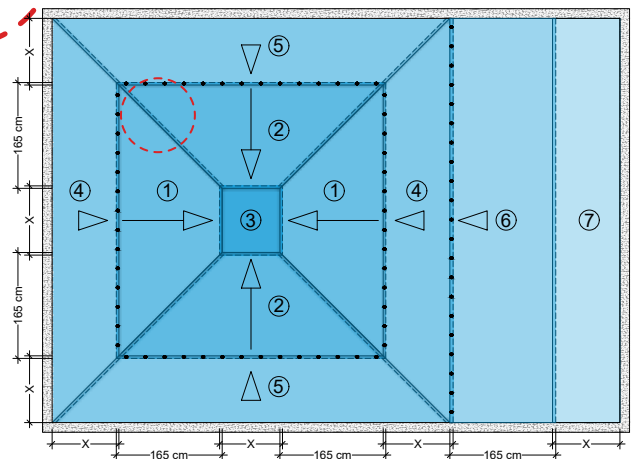
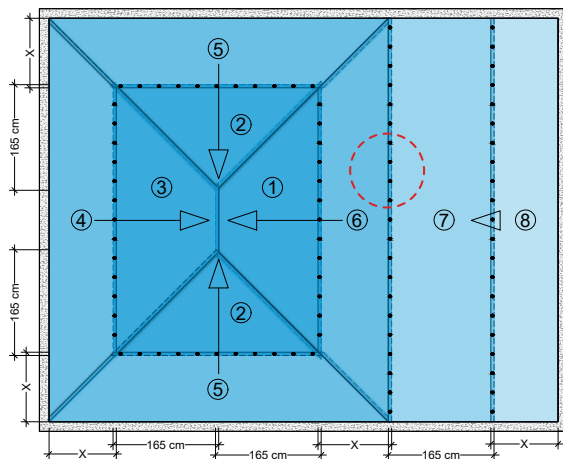
## FLAT BOTTOM OR WITH A SLOPE OF LESS THAN 5%



## BOTTOM WITH 2 SLOPES



## DIAMOND-POINT BOTTOM



When the bottom's slope is greater than 5% and to prevent the membrane from slipping, the ridge of the membrane has to be fixed with [expansion nails](#) or [Alsan Bond Pool 410](#) adhesive.



## BOTTOM INSTALLATION

## Butt welding installation

The butt welding method is recommended for installing **SOPREMA**POOL 3D and Feeling membranes for a better aesthetic finish on the bottom of the pool.

The steps to be carried out for butt welding installation of the membrane on the bottom are shown below:

## STEP 1: FIXING THE GEOTEXTILE

Fix the **SOPREMA**POOL Tex 350 PP geotextile using **Alsan Bond Pool SP** spray adhesive. Join the geotextile with aluminium tape.



## STEP 2: INSTALLING WELDING STRIPS

Glue the **welding strips** directly to the structure (cutting off the excess part of the geotextile). Using **Alsan Bond Pool 410** adhesive is recommended to do this.



### STEP 3: BUTT WELDING: FIRST MEMBRANE

Welding of the membranes in the centre of the welding strip. First, a membrane is to be welded and afterwards the weld is to be checked to ensure that it has been done properly (more details on the procedure can be found on page 28).



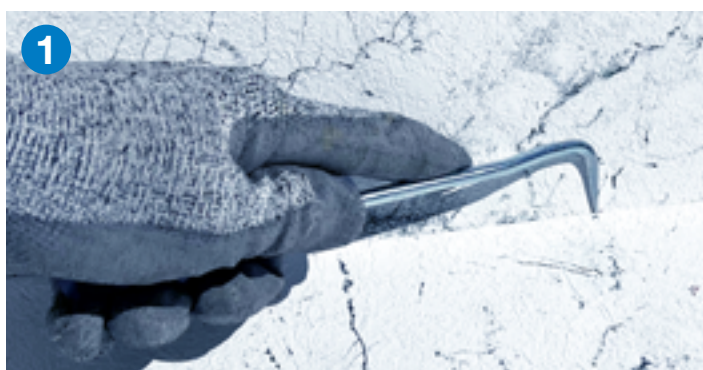
### STEP 4: BUTT WELDING: SECOND MEMBRANE

Secondly, follow the same procedure with the second membrane, taking care not to leave a gap of more than 1 mm between them or allow any overlaps.



### STEP 5: TESTING OF WELDS AND SEALING WITH LIQUID PVC

Check the weld made in step 4 and seal it with Liquid PVC (more details on the procedure can be found on page 28).



# 5. WELDING CONTROL AND JOINT SEALING



## Welding Tester

All welds must be checked to ensure that the pool is completely watertight.

The test is carried out by running the tip of a welding tester over all the welds, exerting pressure to detect the presence of potential weak points or insufficient adhesion.

If weak points are found, the weld must be redone.



## SOPREMAPOOL Liquid PVC

Sealing with **SOPREMAPOOL** Liquid PVC brings a better look to the welds and total waterproofing of the system.

The application of Liquid PVC does not under any circumstances replace the membrane bonding procedure which is the only way of ensuring the pool is completely watertight.



### STEP 1:



Mix the Liquid PVC well and transfer the required amount to the applicator.

### STEP 2:



Apply the Liquid PVC over the weld seam. Allow to dry for 15 to 30 minutes depending on weather conditions.

In wall sealing, the Liquid PVC tends to slide downwards and may build up in the corners. To avoid this problem, start sealing at a minimum distance of 2 cm from the bottom.

To avoid “clogging” and “dripping”, it is recommended to regularly clean the mouth of the Liquid PVC applicator.

The control and sealing stages must be carried out on the same day.



## 6. ACCESSORIES INSTALLATION



Before starting to finally fix the accessories (skimmers, gratings, underwater spotlights, etc.) to the walls, the pool must be filled with 40/60 cm of water. This allows the reinforced membrane to lay with the proper tension and will prevent unsightly creases from forming.

Items such as gratings, skimmers, sumps, shackles and underwater spotlights (see technical details on page [31](#)) require careful connection to the membrane of the pool.

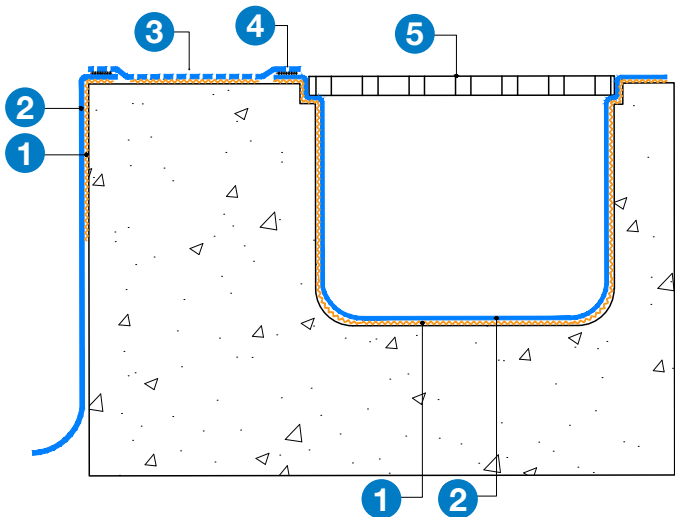
Double seal fittings compatible with the reinforced membrane are to be used for this purpose. See the manufacturer's instructions.

After fitting all the accessories, the pool can then be filled all the way up.



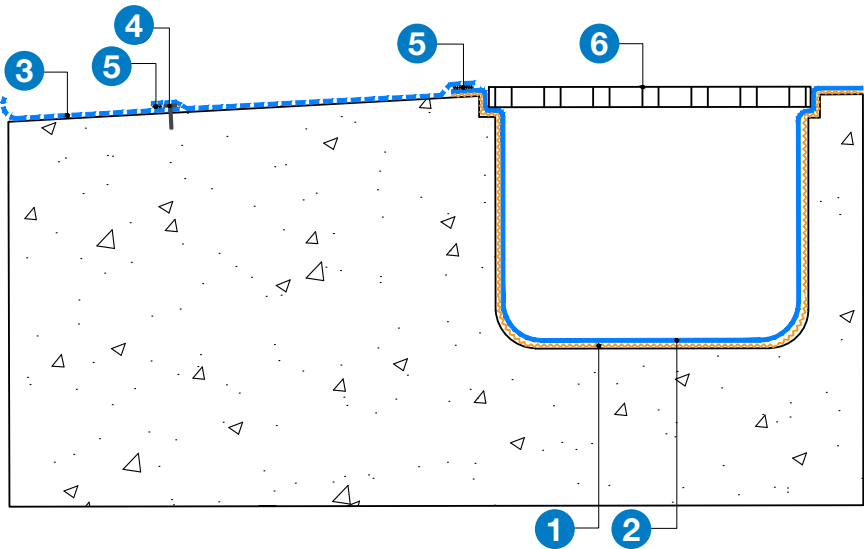
# TECHNICAL DETAILS IN SPECIFIC AREAS

## Infinity border



- |   |   |   |         |
|---|---|---|---------|
| 1 | Alsan Bond Pool 410 adhesive                            | 4 | Welding |
| 2 | <b>SOPREMA</b> POOL reinforced membrane                 | 5 | Grating |
| 3 | <b>SOPREMA</b> POOL Grip reinforced membrane (non-slip) |   |         |

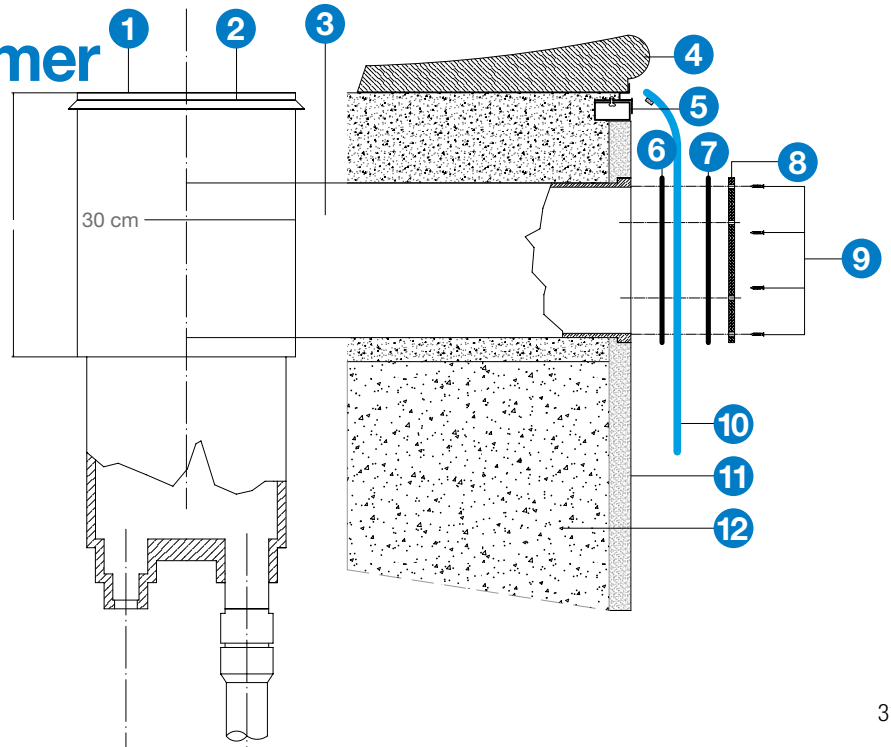
## Infinity border with beach entry



- |   |   |   |                 |
|---|---|---|-----------------|
| 1 | Alsan Bond Pool 410 adhesive                            | 4 | Expansion nails |
| 2 | <b>SOPREMA</b> POOL reinforced membrane                 | 5 | Welding         |
| 3 | <b>SOPREMA</b> POOL Grip reinforced membrane (non-slip) | 6 | Grating         |

## Installation of skimmer with reinforced membrane

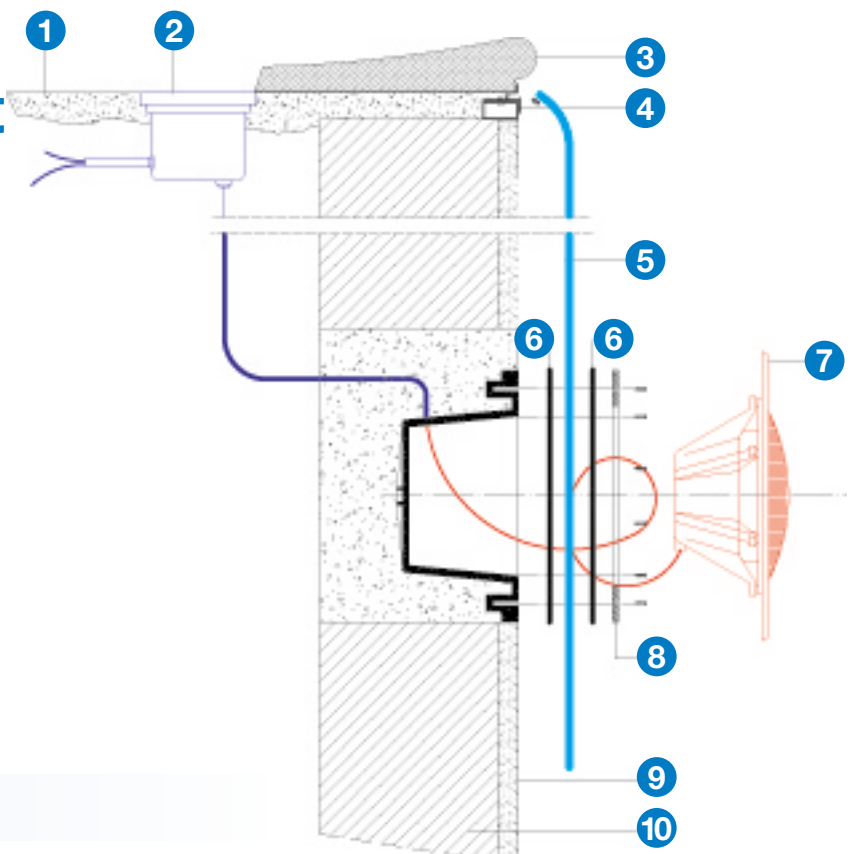
- |     |   |
|-----|---|
| 1   | Final elevation                         |
| 2   | Lid                                     |
| 3   | Skimmer                                 |
| 4   | Coping piece                            |
| 5   | Fixing section                          |
| 6-7 | Joints                                  |
| 8   | Bronze ring                             |
| 9   | Fixing screws                           |
| 10  | <b>SOPREMA</b> POOL reinforced membrane |
| 11  | Smooth surface plaster finish           |
| 12  | Concrete wall                           |



Apply silicone to the screw holes before fixing.

## Installation of underwater spotlight with reinforced membrane

- |    |   |
|----|---|
| 1  | Final elevation                         |
| 2  | Junction box                            |
| 3  | Coping piece                            |
| 4  | Fixing section                          |
| 5  | <b>SOPREMA</b> POOL reinforced membrane |
| 6  | Joints                                  |
| 7  | Spotlight                               |
| 8  | Bronze ring                             |
| 9  | Smooth surface plaster finish           |
| 10 | Concrete wall                           |



Apply silicone to the screw holes before fixing.

# SOPREMAPOOL



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