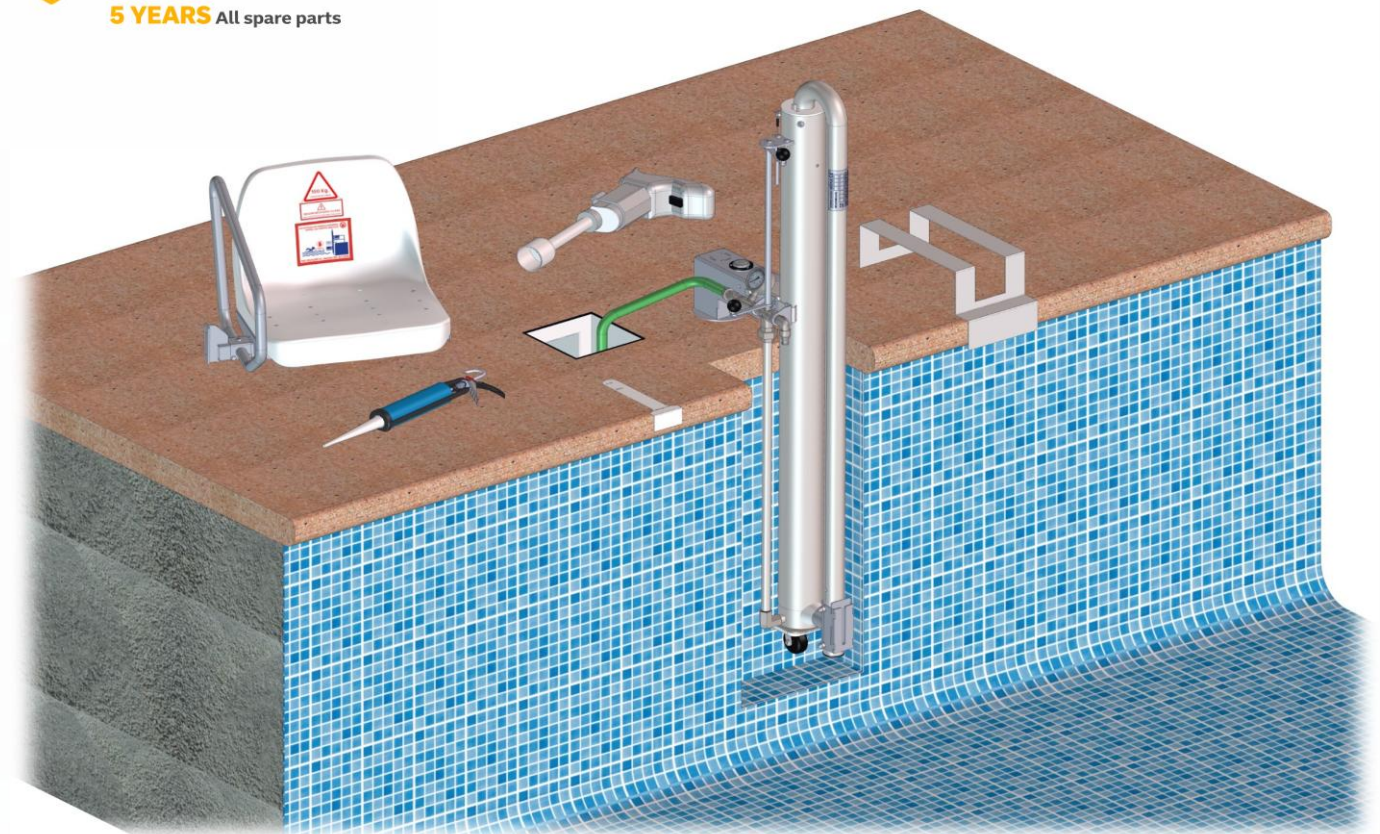




**METALU**<sup>®</sup>  
ascensoracuatico.com

# POOL LIFT METALU PK

PORTABLE HYDRAULIC POOL LIFT



## INSTALLATION





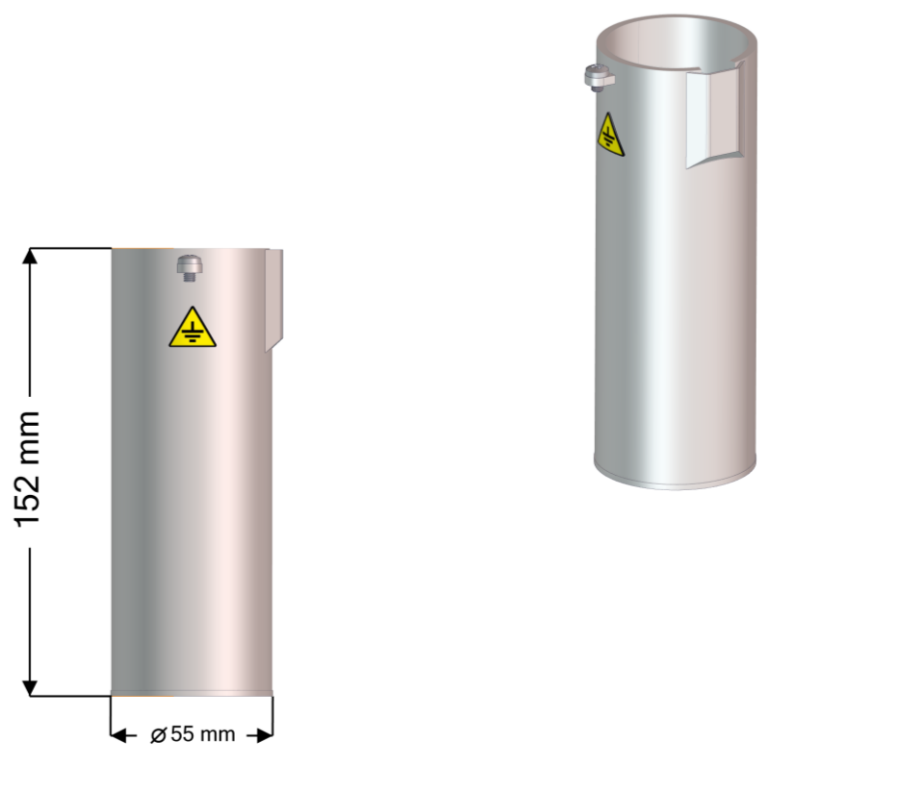
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# Pool lift installation

## 1. Anchor dimensions

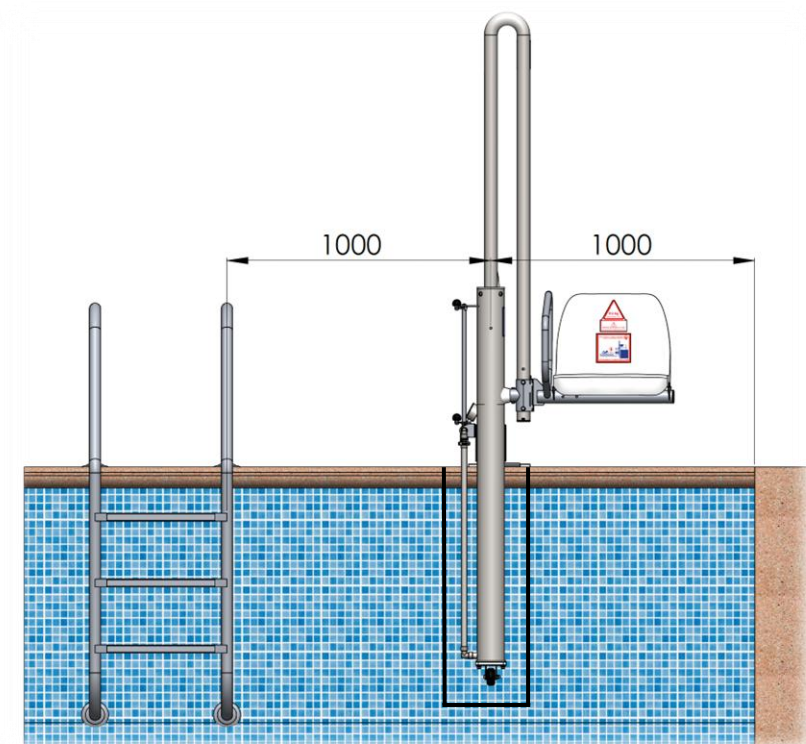
The METALU PK model consists of a cylindrical anchor bushing. Its dimensions, in millimetres, are shown in the following figure:



## 2. Pre-installation

Before installing the METALU PK lift, the following points must be taken into account:

- When selecting the installation area for the lift, consider the **Spanish Building Technical Code (CTE)**, as well as any regulations applicable in each autonomous community.
- Carefully choose the location of the lift. We recommend installing the lift where the pool basin has **sufficient depth so that, if the user requires assistance from another person, they can easily stand in the pool. The minimum depth permitted for the METALU PK model is 0.90 metres at the pool cove.**
- The operating radius of the seat must have a minimum clear space of **1 metre on each side of the lift.**



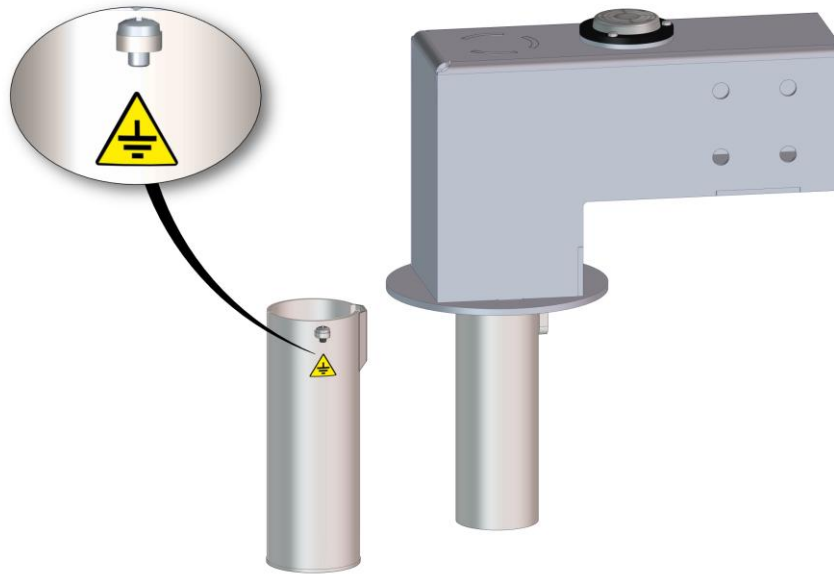
*A minimum obstacle-free clearance of 1 metre on each side of the lift must be provided.*

- A 1/2" water supply connection with a pressure between **3.5 and 5.5 bar** must be available at the lift installation location.
  - If the supply network does not reach the minimum required pressure, it will be necessary to install a pressure booster set or water pump (see Annex 1 of the document "Exploded View and Troubleshooting" for the METALU PK model).
  - In the event of excessive pressure, install a pressure reducer.
- The inlet hose to the hydraulic system must have a **minimum internal diameter of 12 mm**. A smaller diameter will impair the correct operation of the lift.
- Verify that the lift is not installed above the skimmer, pipes, inlets or any other external components that may affect the normal operation of any element.



- In order for the warranty to be valid, it is mandatory to connect the lift to the **supplementary equipotential bonding system (earth/ground connection)**.

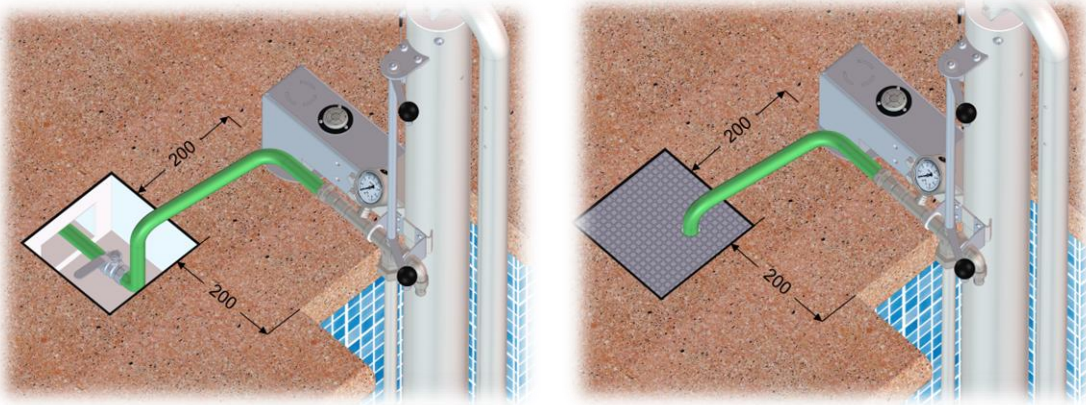
Public or communal swimming pools must comply with the regulations of each autonomous community when **connecting to the supplementary equipotential** bonding system provided for the pool, in accordance with the Complementary Technical Instructions of the Low Voltage Electrical Regulations (ITC-BT-31).



Connection to the supplementary equipotential bonding system.

## 2.1 Pre-installation in Pools with Skimmer-Type Profile

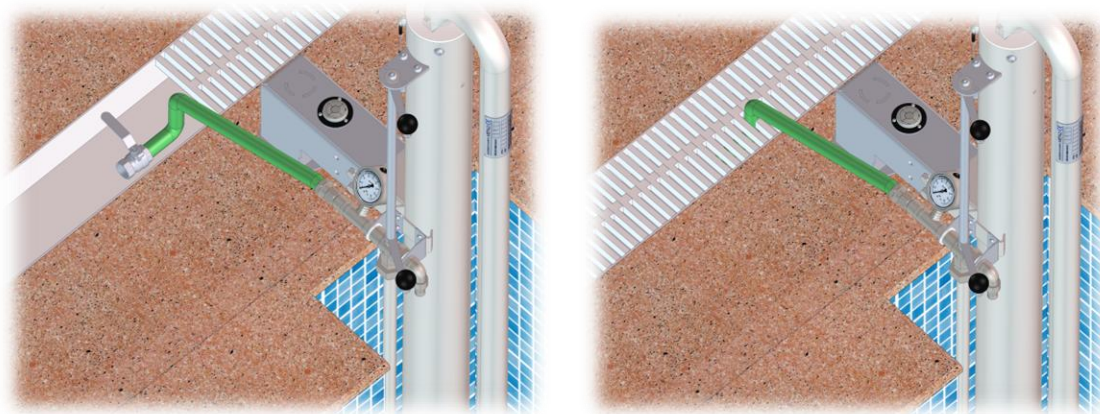
For improved aesthetics, maintenance and safety of **the lift installation**, it is **recommended to install an inspection chamber** (shut-off valve and water supply connection) near the lift. As a general guideline, and depending on each pool, the inspection chamber should be built at an approximate distance of 200 mm from the lift anchor and from the edge of the coping stone.



In case of any doubts regarding the pool profile, please request the “Dimension Form for Skimmer-Type Pool Profiles”. By completing this form, a compatibility analysis of the lift is carried out and personalised advice regarding the pool profile is provided.

## 2.2 Pre-installation in Pools with Overflow Channel Profile

For pools with an overflow channel profile, it is recommended **to use the pool’s own drainage channel** in order to install, near the lift, the water supply connection together with a shut-off valve for the lift’s hydraulic system.



*Recommendation to use the drainage channel during pre-installation.*

Likewise, in case of any doubts regarding the pool profile, please request the “Dimension Form for Overflow Channel Pool Profiles”. By completing this form, a compatibility analysis of the lift is carried out and personalised advice regarding the pool profile is provided.

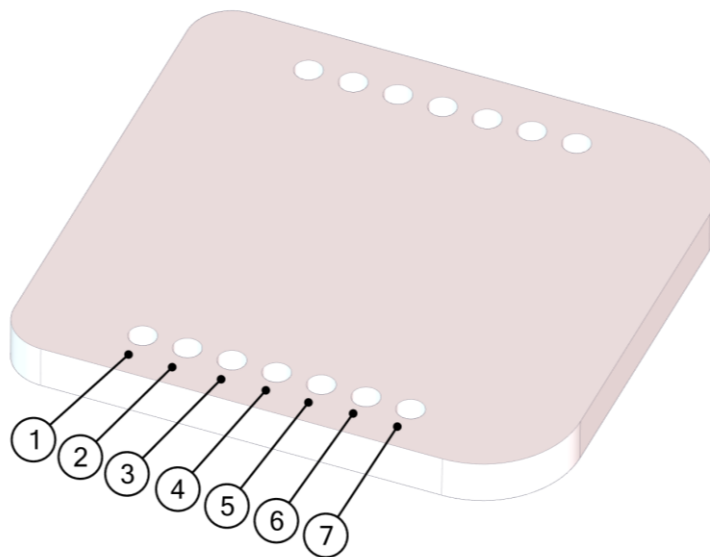
### 3. Installation

To install the METALU PK model lift, the following materials are required:

- Hammer drill.
- Core drill bit of approximately 68 mm.
- Marking pencil.
- Common tools:
  - Open-end spanners 12–13 mm and 16–17 mm.
  - Set of hex Allen keys.
  - Hammer and chisel.
- EPOXY chemical anchor and application gun.

**Step 1.** Adjustment of the Lower Support of the Lift. To do so, measure the overhang of the pool edge and follow the table below:

<b><u>Pool Edge overhan (mm)</u></b>	0-9	10-19	20-29	30-39	40-49	50-59
<b><u>Lower support drilling</u></b>	Nº 2	Nº 3	Nº 4	Nº 5	Nº 6	Nº 7

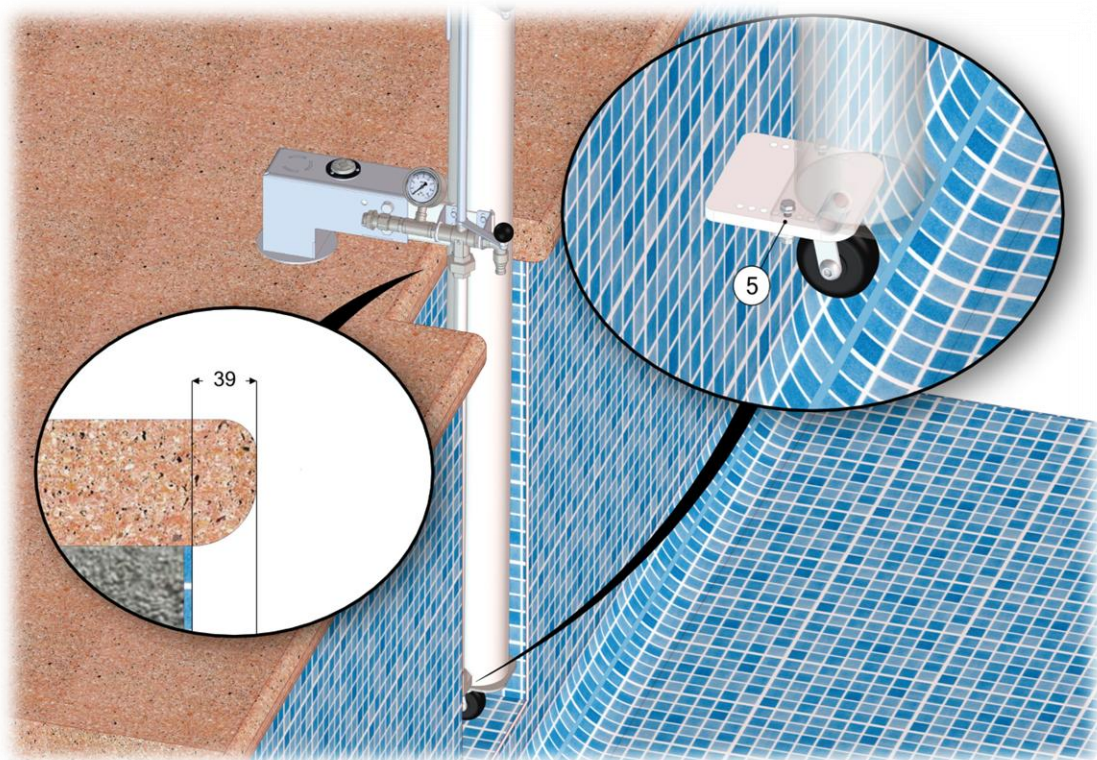


**The pool lift is supplied from the factory as standard in drilling position No. 2.**

If the overhang is greater than 60 mm, please inform the METALU technical department so that the lift can be supplied with a special lower support.

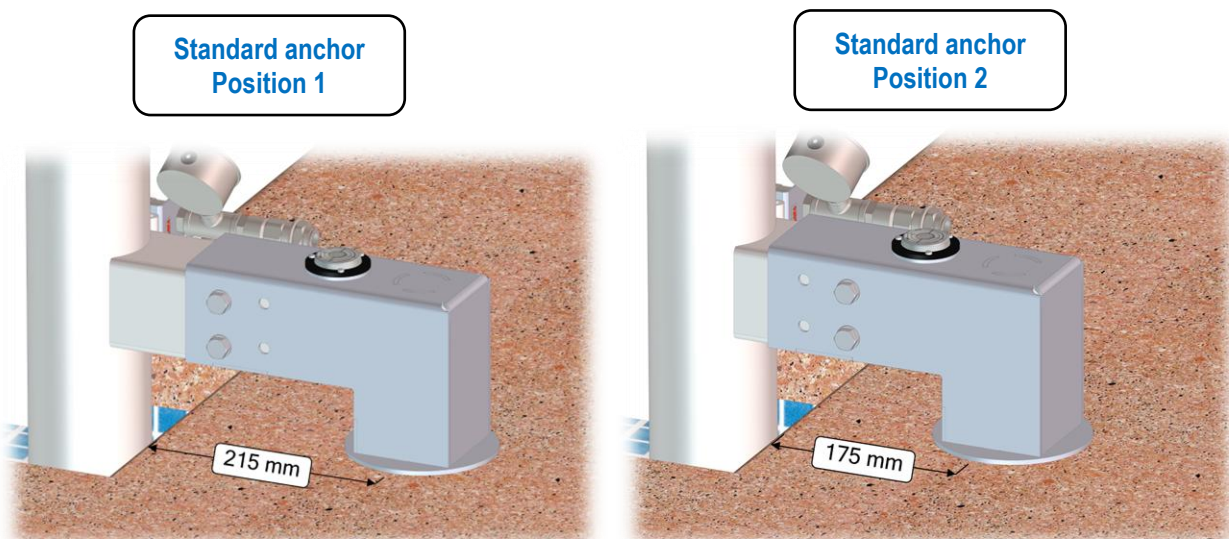
Visually explanatory example of the lower support adjustment:

**If the edge overhang is 39 mm, position the lower support in drilling position No. 5 of the lower support.**

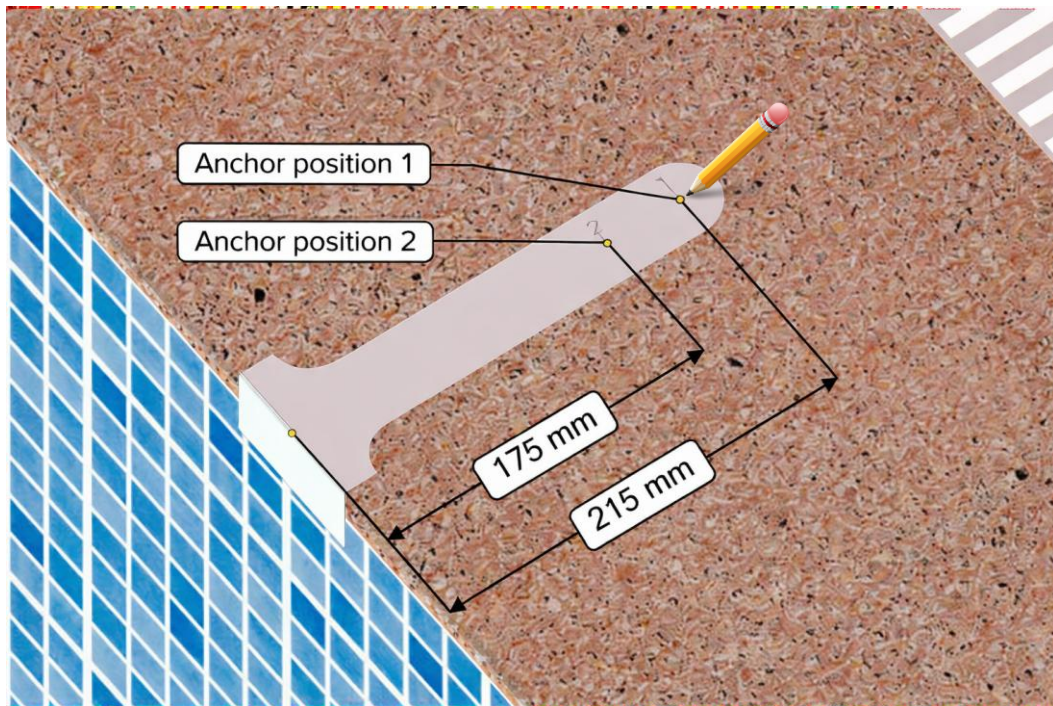


**Step 2.** Identify the Anchor Position That Best Fits the Pool.

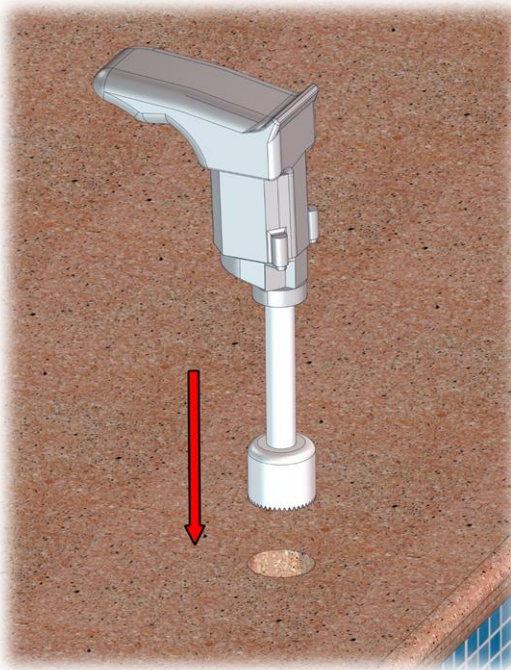
- **Position 1 (standard anchor) is located further away from the pool edge.**
  - The distance from the anchor axis to the edge is 215 mm.
- **Position 2 (standard anchor) is located closer to the pool edge.**
  - The distance from the anchor axis to the edge is 175 mm.



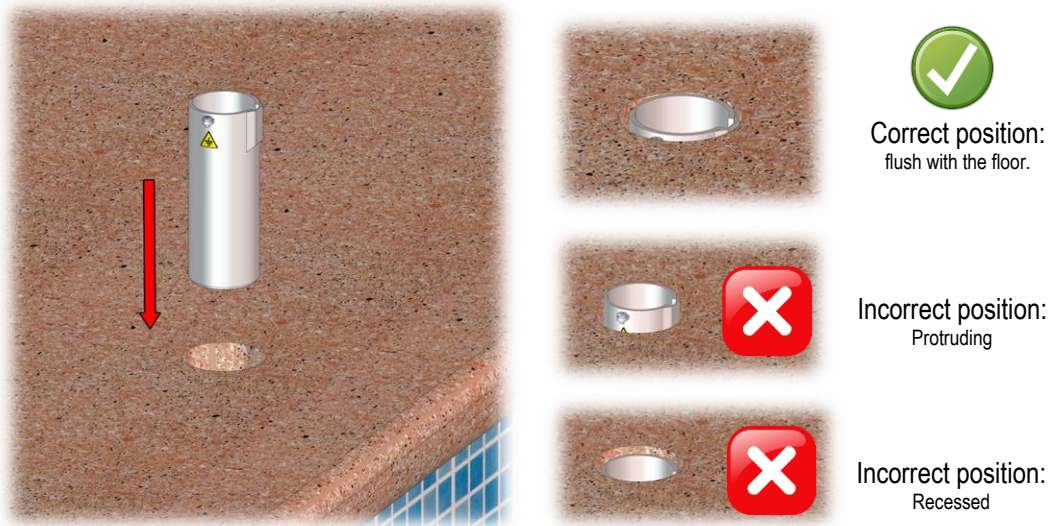
**Step 3.** Place the marking template on the pool edge and mark with a pencil the area where the drilling must be carried out. The template has two clearly identified positions; mark the most suitable one depending on the pool profile.



**Step 4.** Drill the coping stone at the previously marked point. Use the drill with a 68 mm core drill bit. For safety reasons, we recommend that no swimmers are present while drilling.



**Step 5.** Insert the bushing into the hole. Make sure that there are no obstacles inside the hole and that the bushing is **flush with the floor surface, neither protruding nor recessed**. Do not apply the chemical anchor yet.

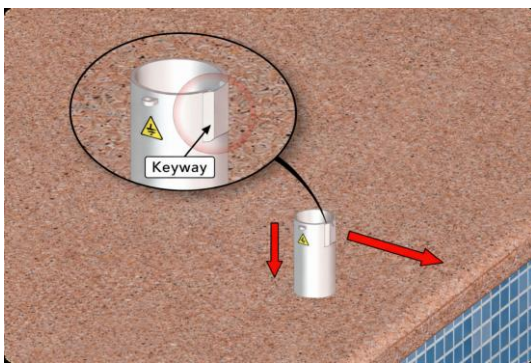


Thoroughly clean all drilling dust from the hole using air or water.

**Step 6.** As a verification step, place the anchor into the embedded bushing and check that the bull's-eye level bubble is centred. Do not apply the chemical anchor yet.

**Step 7.** Remove the embedded bushing from the drilled hole, leaving the hole clear. Connect the pool's supplementary equipotential bonding system (earth/ground connection) to the embedded bushing.

**Step 7.1.** Fill one third (1/3) of the drilled hole with EPOXY chemical anchor.



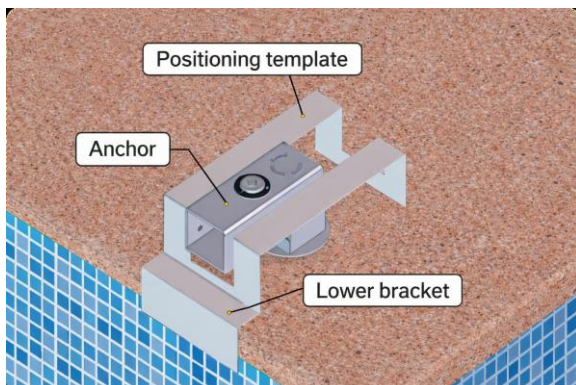
**Step 7.2.** Fully insert the embedded bushing into the drilled hole.



**Verify that the embedded bushing is:**

- Flush with the floor surface.
- With the keyway facing the pool basin.
- Centred within the drilled hole.

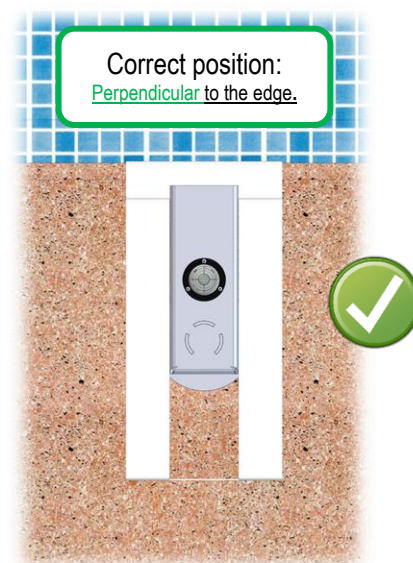
**Step 8.** Immediately afterwards, position the **anchor** in the embedded bushing and place the **positioning template** on the pool edge.



**Punto 8.1** The **positioning template** must be properly fitted onto the **anchor**.

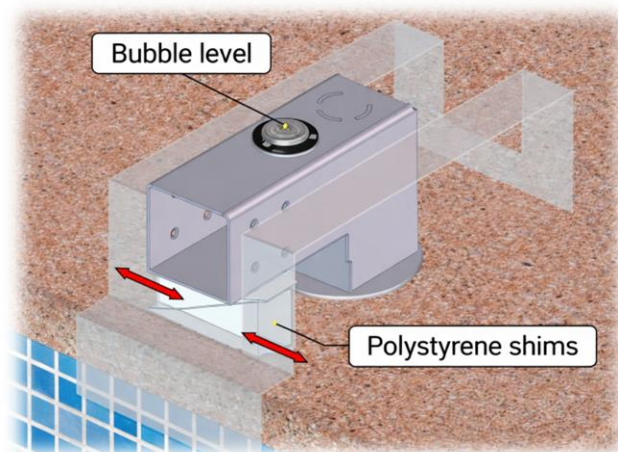
Position it **perpendicular** to the pool wall.

**The lower square of the template must fit perfectly against the pool edge, with its inner faces in full contact.**



**Step 8.2.** Place the **two polystyrene wedges** between the underside of the anchor and the floor. Adjust them until the **bull's-eye level bubble is centred, with the greatest possible accuracy.**

**Recheck the correct positioning described in Step 8.1.**



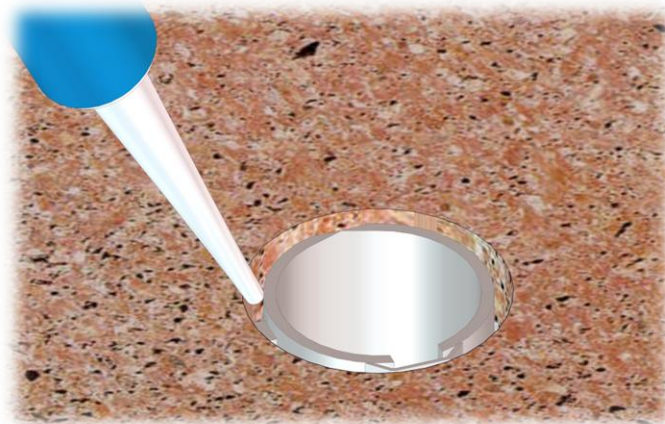
**¡Very important!**



**Step 9.** Wait at least 30 minutes for the chemical anchor to cure.



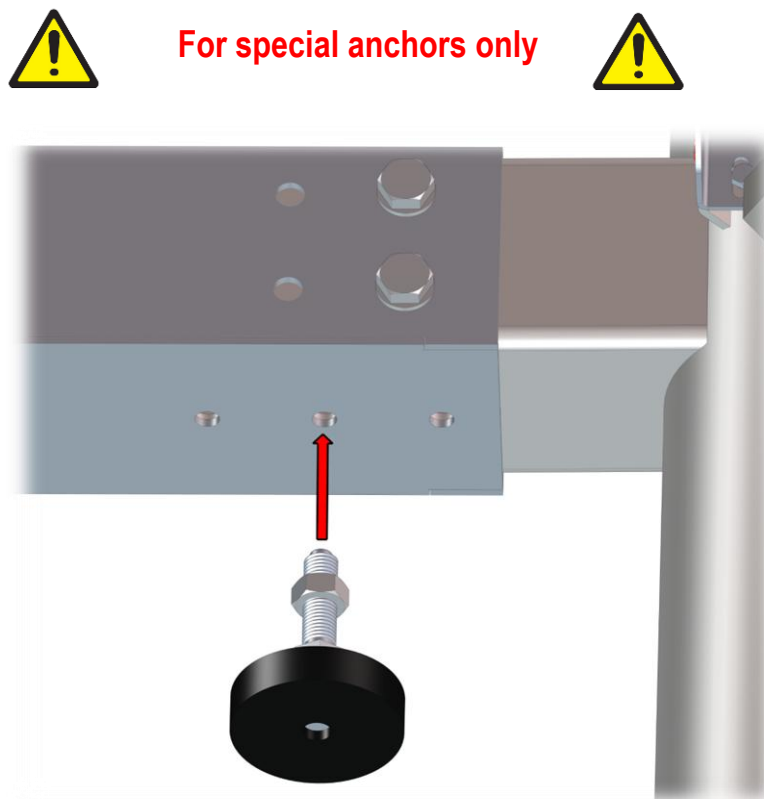
**Step 10.** Fill any remaining air gaps on the outer side of the embedded bushing with EPOXY chemical anchor. Leave the earth/ground connection accessible. Remove excess EPOXY chemical anchor by levelling it flush with the floor.



**Step 11.** Wait approximately another 30 minutes for the remaining chemical anchor to cure.

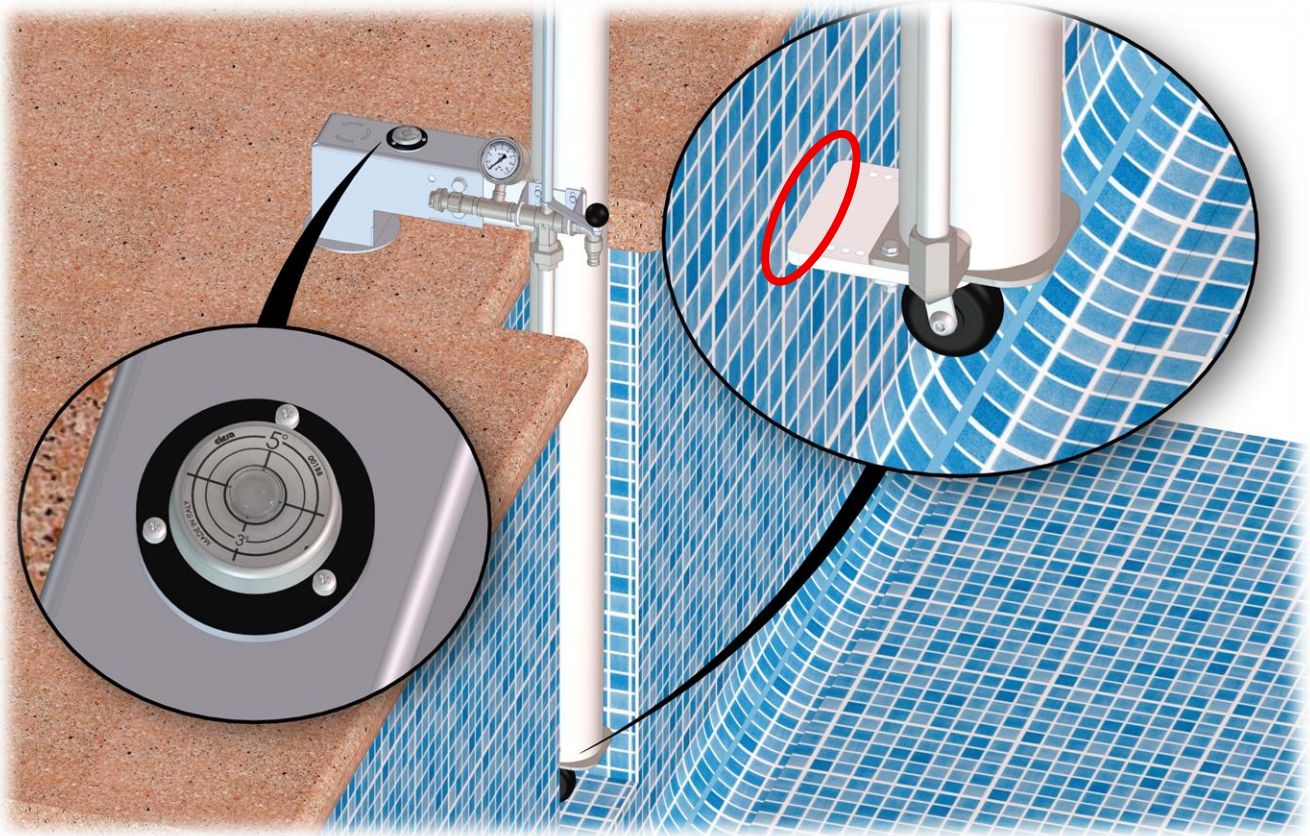
**Step 12.** Remove the anchor and bolt it to the lift in position 1 or 2, as applicable. Refer to **Step 2** to verify the correct anchor position.

**Paso 13.** For special anchors, position the support foot on the underside of the anchor. Select the position that best fits the pool edge.

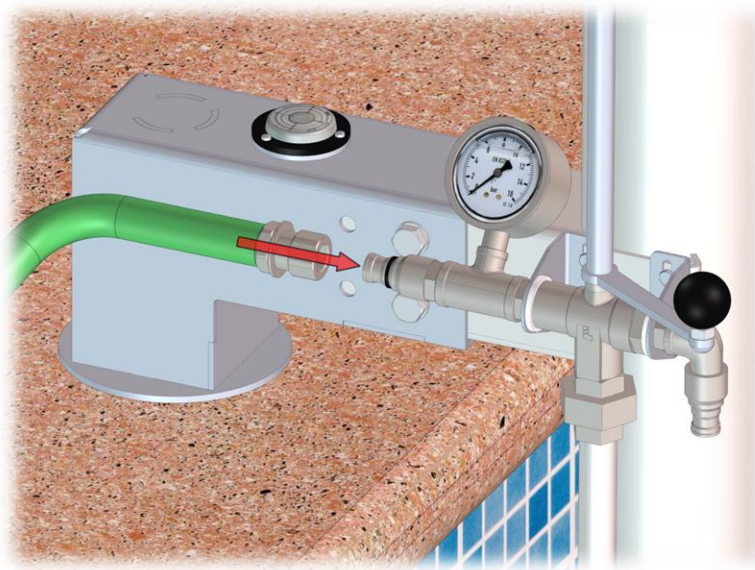


**Step 14.** Place the lift in the pool and check that:

- The bull's-eye level bubble remains centred.
- The lower support is in contact with the inner wall of the pool. If it does not make contact with the wall, adjust it to the most suitable drilling position.



**Step 15.** Purge the water supply and connect the lift's hydraulic system.

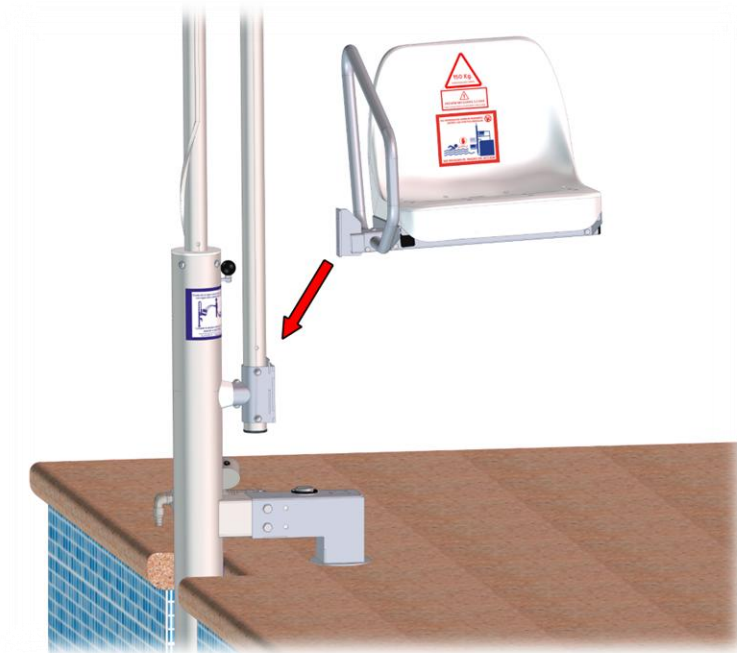




**Step 16.** Cut off the tip of the pressure gauge head. This cut is necessary for correct operation.



**Step 17.** Raise the lift and place the seat support onto the seat holder.



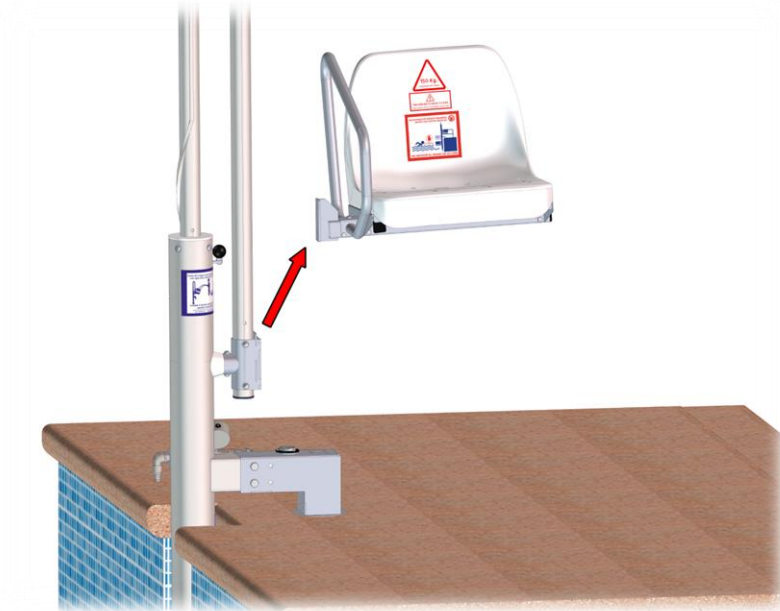
**Step 18.** Fully raise and lower the lift several times without load. Afterwards, repeat the operation with load.



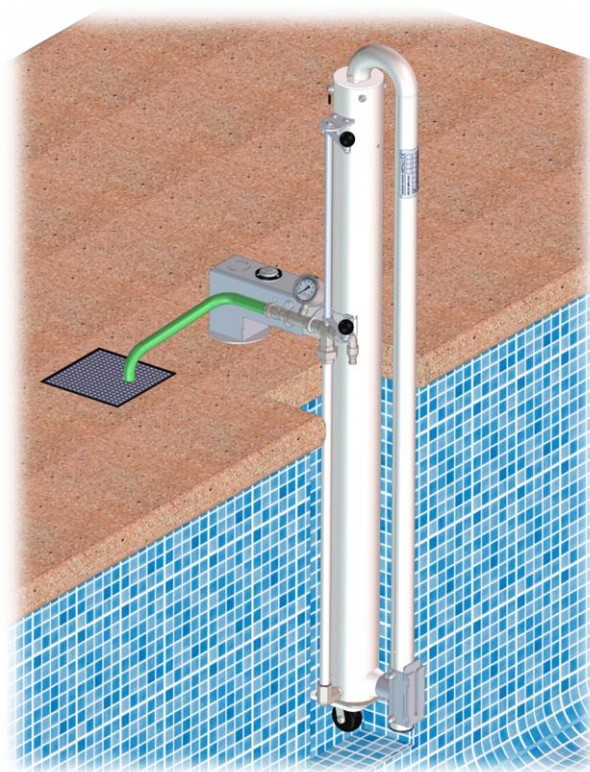
## 4 Disassembly and storage of the product

To disassemble the METALU PK model lift, the following simple steps must be followed:

1. Raise the lift and disengage the seat support from the seat holder.

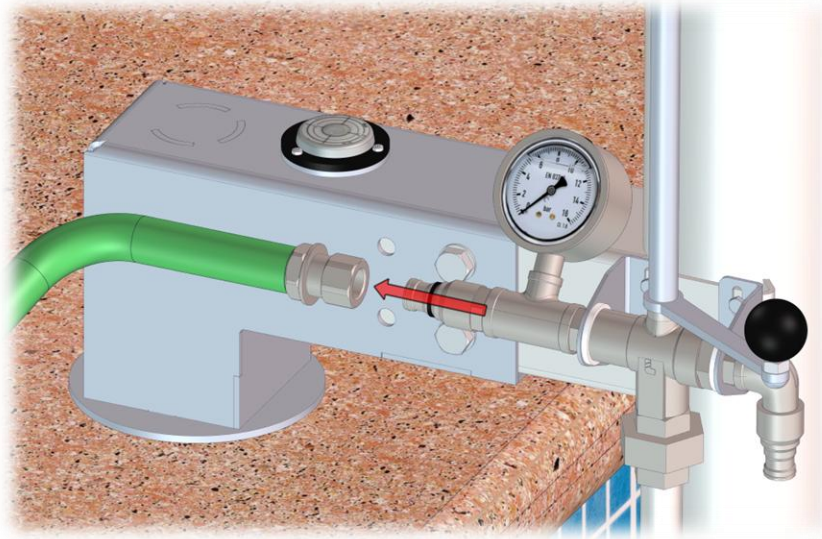


2. Lower the lift completely.

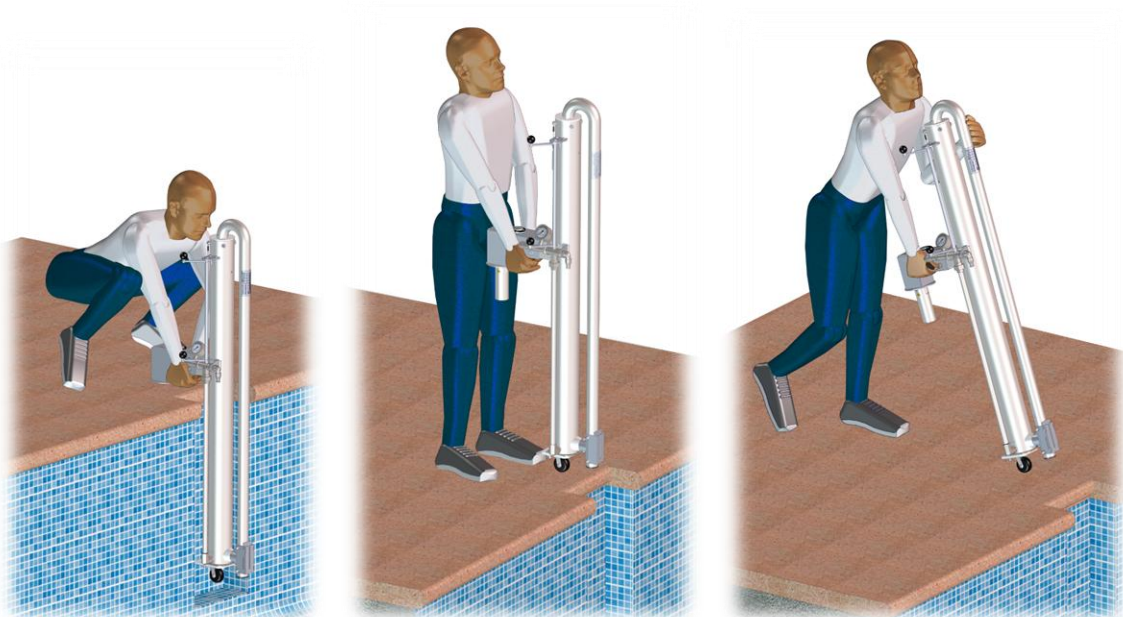




3. Disconnect the hydraulic system.

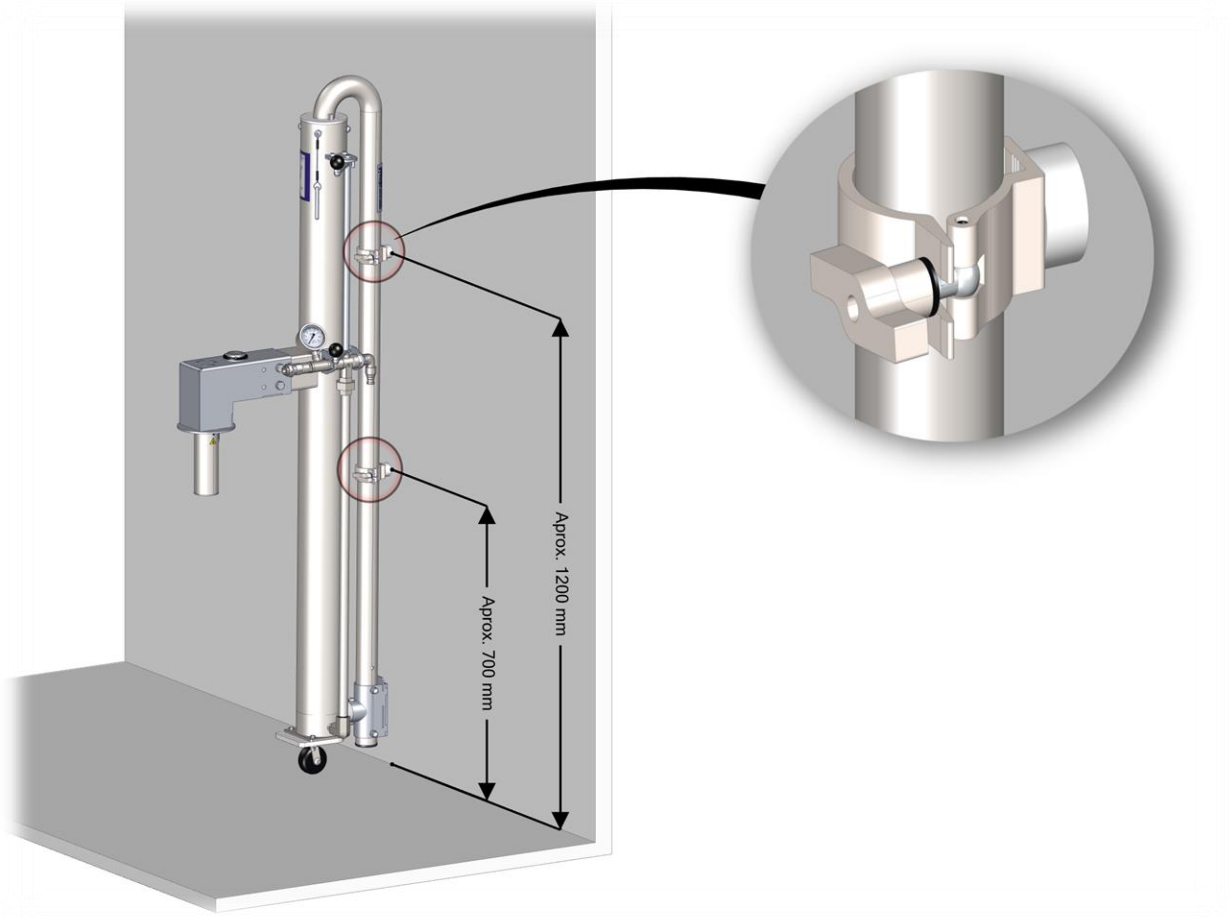


4. Disengage the anchor and transport the assembly to the storage area.

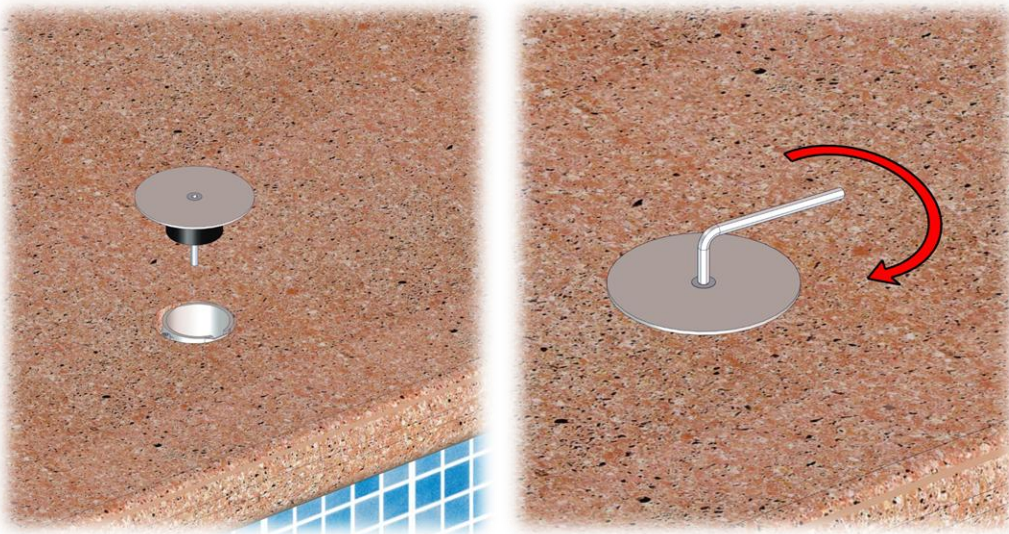




5. Place the lift on the fixed wall-mounted supports in its storage area.



6. Fit the cover and tighten the central screw.



## ANNEX 1

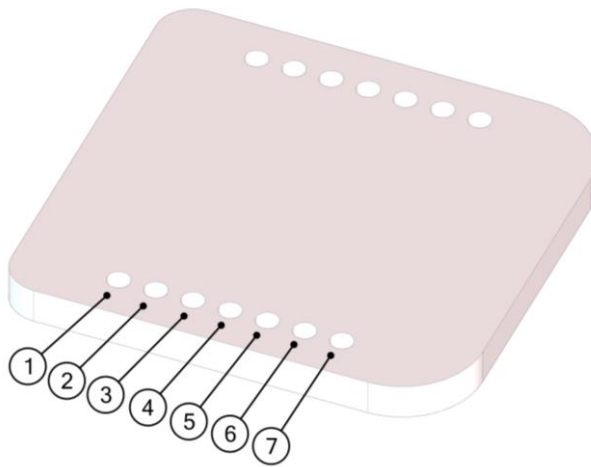
### Installation for pools with an inclined inner wall

In **prefabricated or polyester pools**, it is common for the inner walls to have a certain inclination.

In this type of pool, installation is usually carried out using the **450 mm special anchoring**.

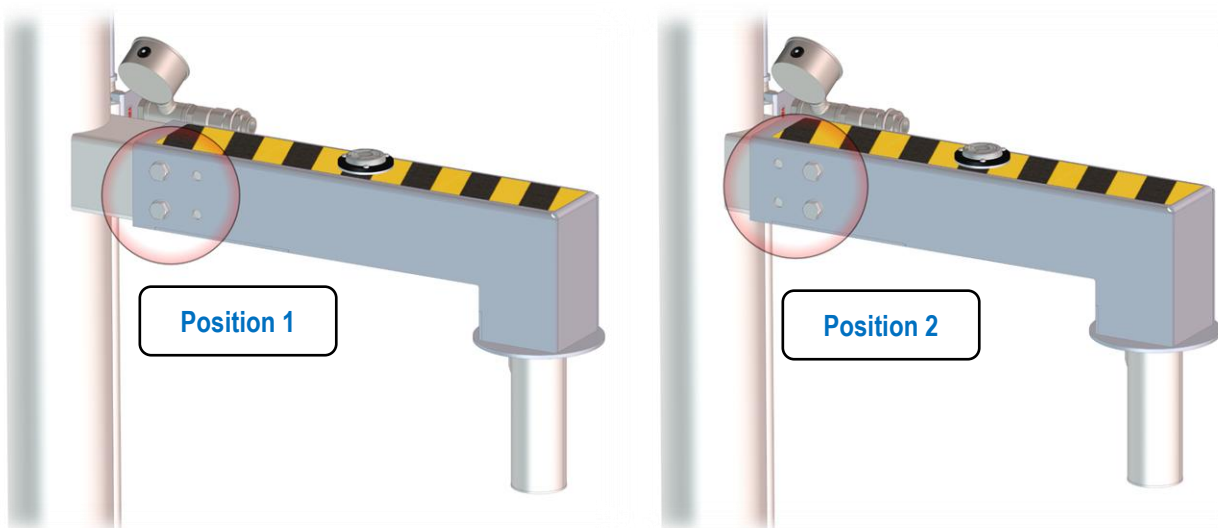
The steps to follow for installing the lift in this type of pool are as follows:

**Step 1.** Place the lower support of the lift in **hole number 4**. The lift is supplied from the factory in hole number 2 as standard.

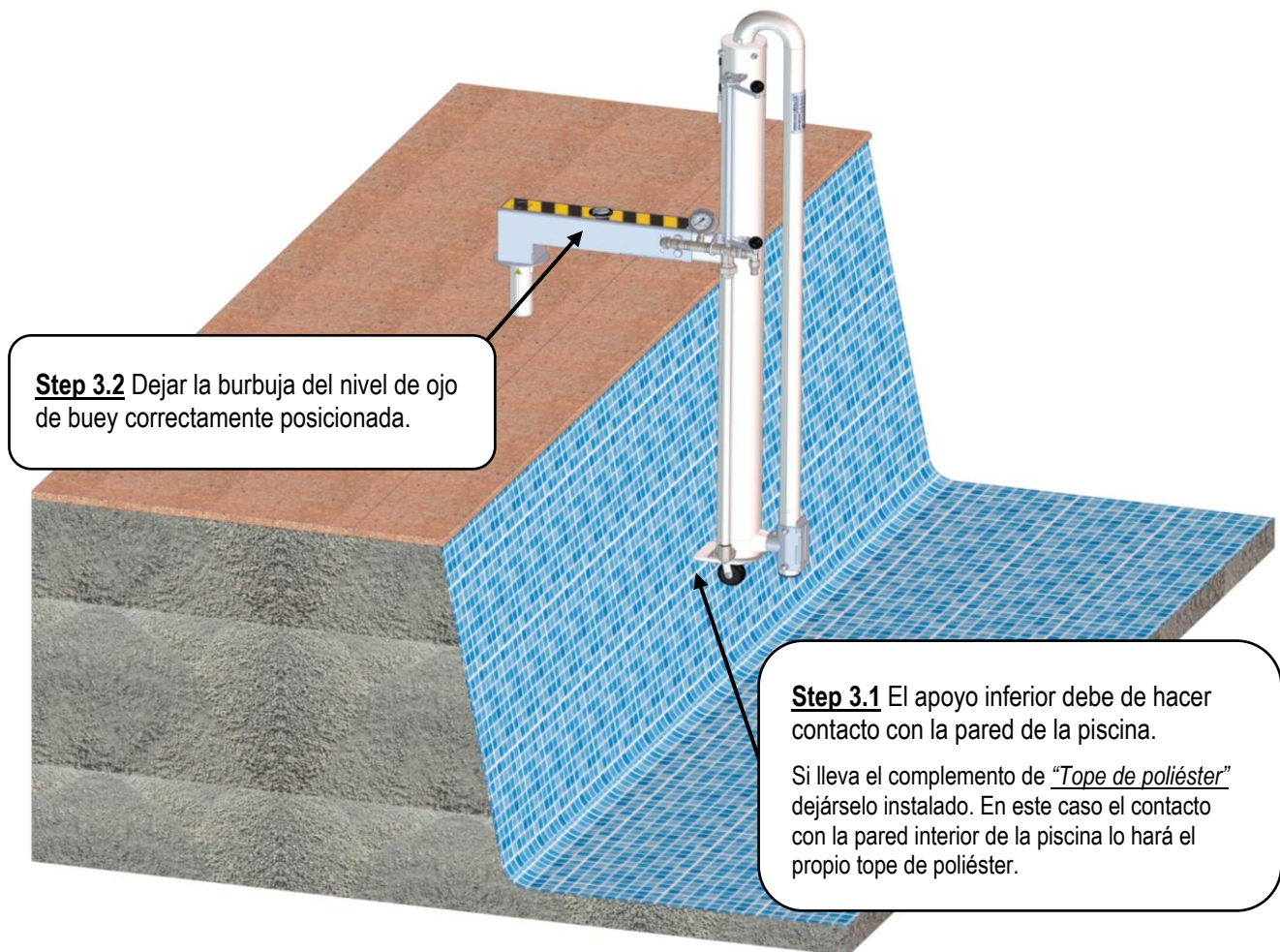


**Step 2.** Screw the special anchoring to the lift in position 1 or 2, depending on the user's preference.

- **Position 1 is further away from the pool edge.**
- **Position 2 is closer to the pool edge.**



**Step 3.** Position the lift in the installation area.



**Step 4.** Mark the point where the hole for the embedded anchor sleeve will be drilled.



From this point onwards, continue with **“Step 5”** of section **“3 – Installation”**.

**IMPORTANT NOTE:** In **“Step 15”**, it may be necessary to move the lower support hole to position 3 (or even to position 2) to compensate for the wall inclination.

# 10 basic rules

**1** METALU equipment must be installed in accordance with the manufacturer's instructions, making any necessary enquiries. The installer must test the equipment once installation has been completed and ensure that everything is functioning correctly.

**2** In accordance with Article 12 of Law 11/1997 on Packaging, the final holder is responsible for the packaging. Reuse it whenever possible and dispose of the remainder at appropriate recycling facilities.

Protecting the environment is everyone's responsibility.



**3** METALU equipment must only be used by facility managers and authorised users.

**4** Facility managers must be familiar with the equipment after having read the instructions. If, after reading them, there are any doubts, the manufacturer must be contacted using the addresses provided therein.

**5** Facility managers must inform users about the correct operation of the equipment.

**6** Before operating the lift, ensure that the operating radius is clear. While the lift is in operation, do not place hands or any objects in its moving parts.



**7** External cleaning is a mandatory condition for warranty validity. Follow the cleaning instructions supplied with the lift.



**8** In accordance with the Low Voltage Electrical Regulations (REBT), ITC-BT-31, the machine must be connected to the equipotential bonding conductor that the swimming pool is required to have.

**9** The installer must be aware of and take into account the regulations of the relevant autonomous community when carrying out the installation.

**10** If the holder of this document is not the final customer, it must be passed on to them.

# MANUFACTURAS METÁLICAS LUISIANERAS, S.L.

## Hydraulic pool lift METALU PK model

### Installation Manual and Certificates

**Address:** Polígono Industrial Los Motillos, C/ Madrid No. 11, units A, C, D, G, H. C.P.: 41430.

**Localidad:** La Luisiana (Seville) – Spain.

**Tax ID:** B – 41834508

**Main telephone:** (+34) 955 907 784

**Website:** [www.ascensoracuatico.com](http://www.ascensoracuatico.com)

**Email:** [info@ascensoracuatico.com](mailto:info@ascensoracuatico.com)

#### **Technical support contacts:**

- Telephone: +34 610 267 663
- Email: [soporte@ascensoracuatico.com](mailto:soporte@ascensoracuatico.com)



Other available documentation:



Pre-installation and  
installation



Pool basin adaptability



Exploded view and  
troubleshooting



Additional  
accessories