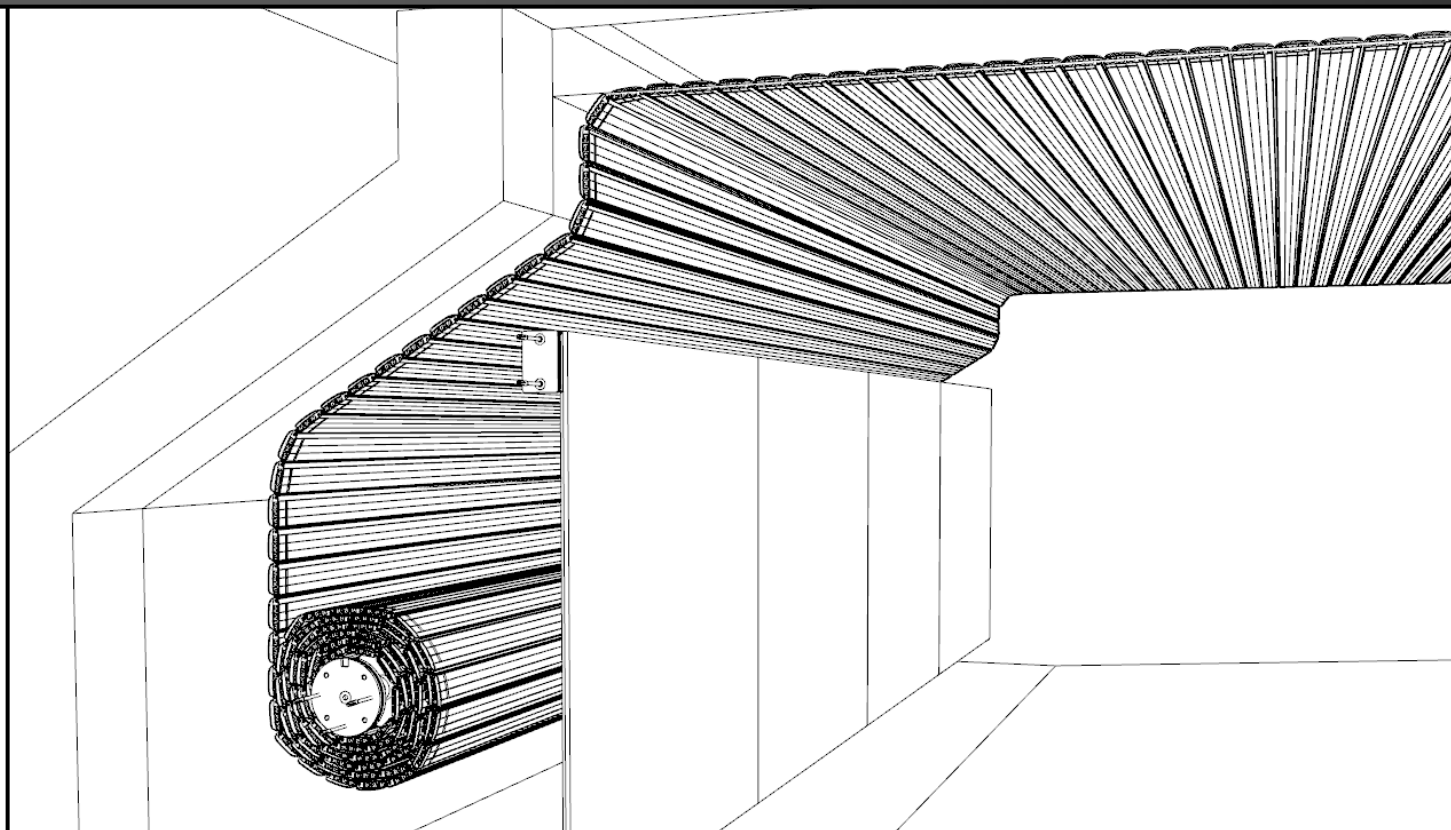


INSTALLATION AND OPERATING INSTRUCTIONS FOR SWIMMING POOL COVER
UNDERWATER WITH TUBE ENGINE



Contents

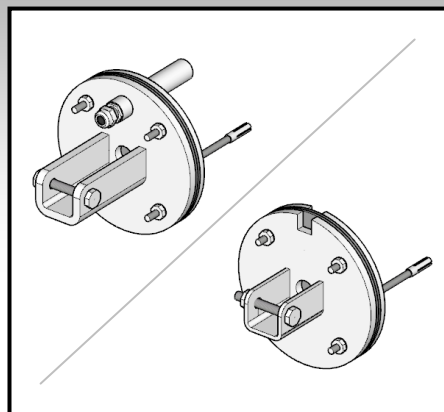
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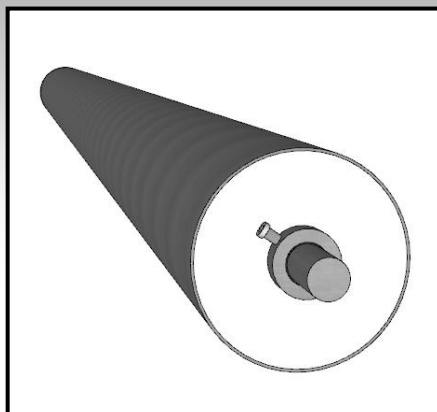
WARNING! PLEASE READ CAREFULLY!

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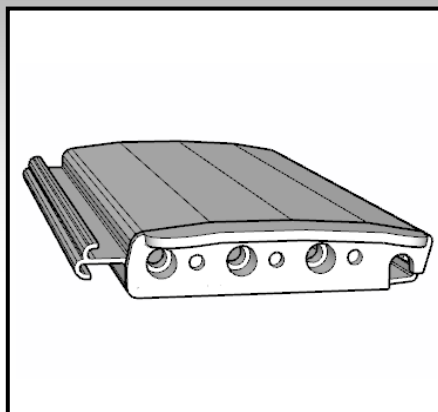
Pool cover accessories



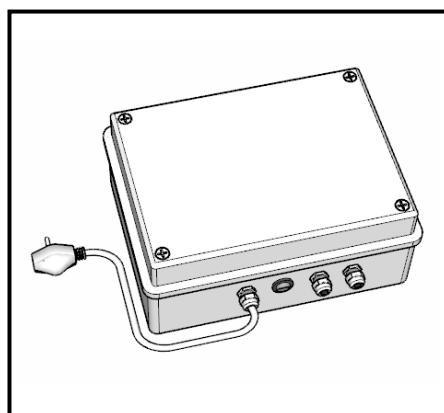
2x shaft flange (different variants)



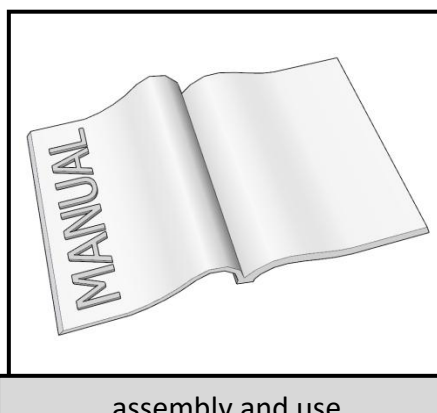
shaft



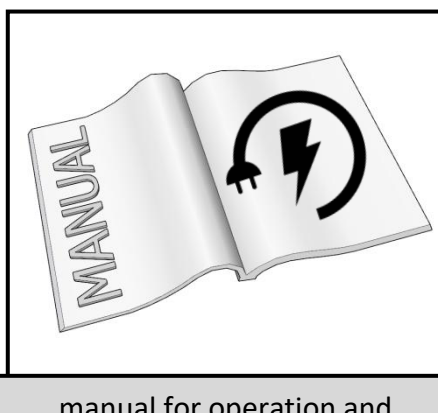
profiles



control box



assembly and use
manual



manual for operation and
connection of the engine

Dimension table - shaft diameter after winding

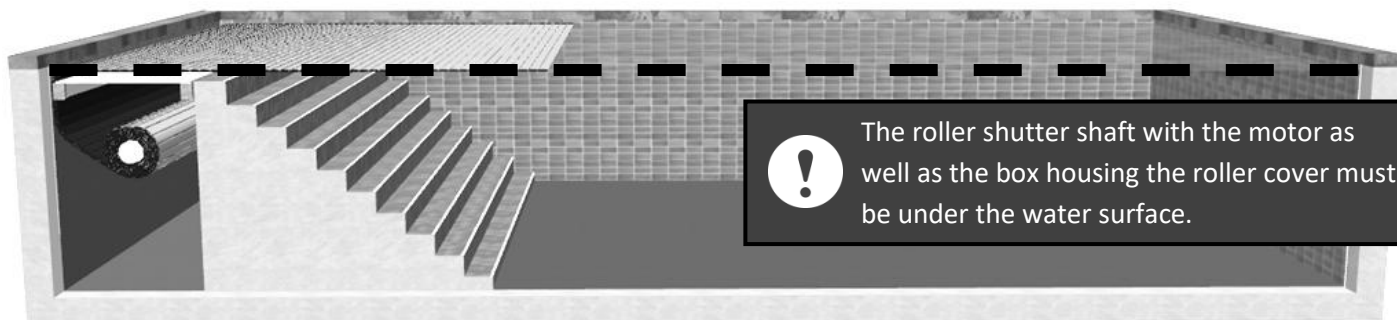
Pool length - internal dimension (in meters)	Rewinder diameter with shaft Ø154 mm (in millimeters)	Number of slats for profiles P60 and PC60 (pcs)
1	230	17
2	260	33
3	290	50
4	330	67
5	380	83
6	390	100
7	420	117
8	440	133
9	460	150
10	480	167
11	500	184
12	520	200
13	540	217
14	560	234
15	580	250
16	600	267
17	620	284
18	640	300



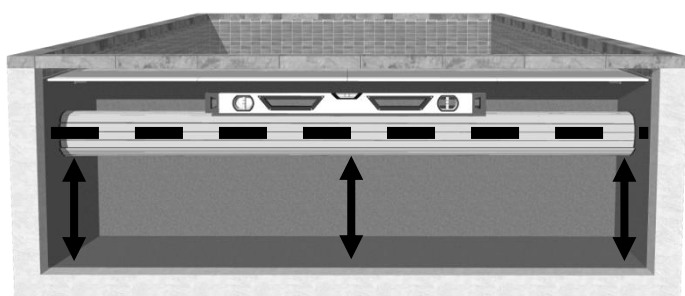
The maximum width of the pool is 6.00 m
for a length of 18.00 m.

Installation of flanges - basic information

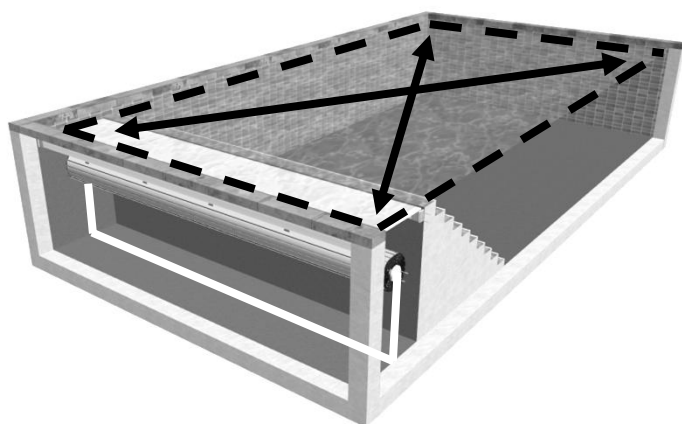
Mounting the flanges and location of the shaft



The roller shutter shaft with the motor as well as the box housing the roller cover must be under the water surface.

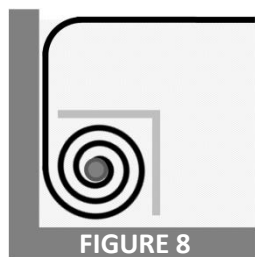
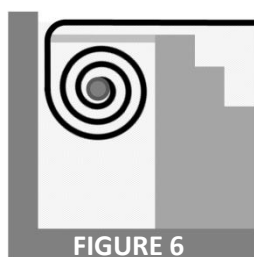
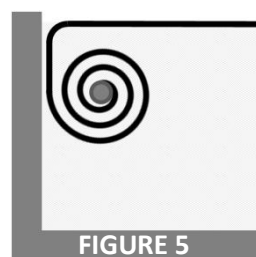
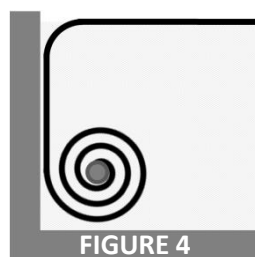
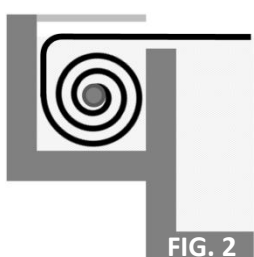
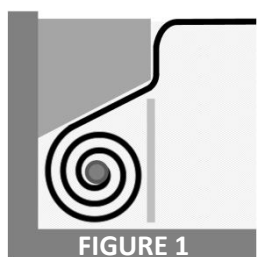


The flanges **should be installed with the utmost precision**. The roller cover shaft must be **perfectly level** and extend parallel to the shorter edge of the pool and perpendicular to the longer edges. The correct positioning of the shaft is crucial for the even development and positioning of the roller cover on the water surface.



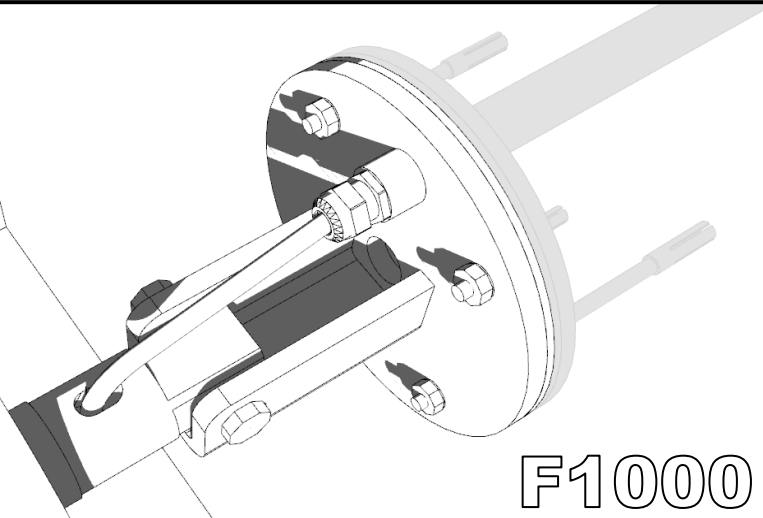
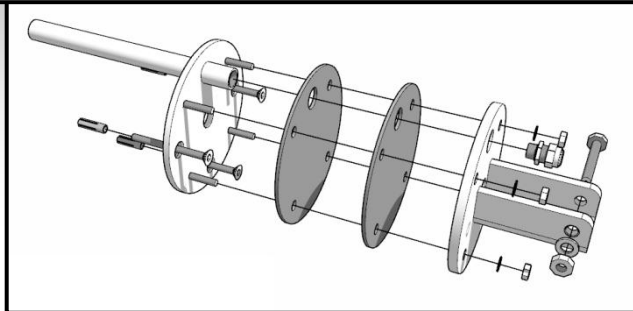
In order to determine the correct location of the flanges, it may be necessary to measure the diagonals of the pool (applies to rectangular pools - the diagonals should be the same).

Possible variants of the underwater roller cover installation



Flange assembly engine side drilled into concrete (pins)

Correctly installed **motor flange** and cross-section of individual flange elements.



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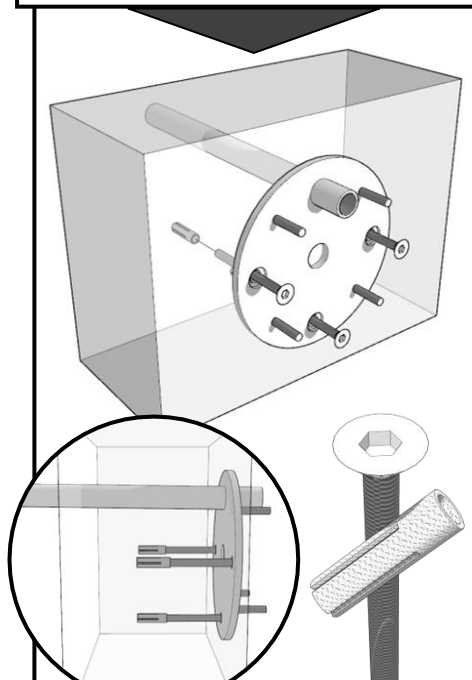


The installation of the flange with a $\varnothing 20$ mm pipe under the motor cable **takes place at the stage of bricklaying the pool** (before installing the foil)!

Step 1. Fixing the first flange (to the wall)

Step 2. Installation of the rubber seals

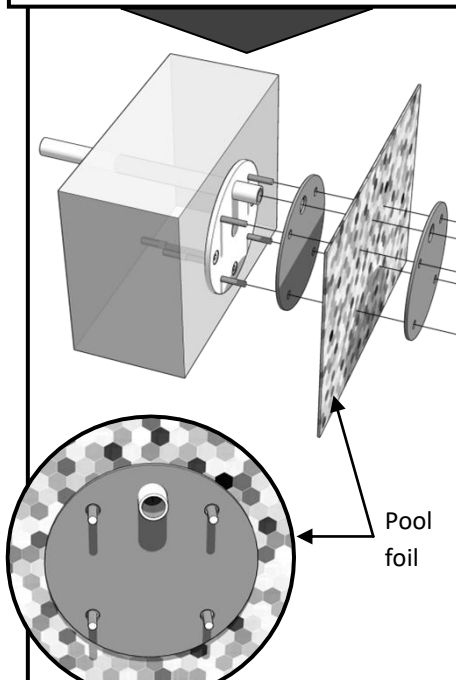
Step 3. Mounting the second flange and inserting the cable



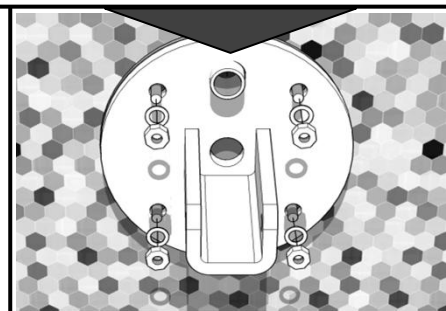
Drill holes in the wall: $\varnothing 22 - \varnothing 25$ for $\varnothing 20$ [mm] pipe and 3 holes for screws $\varnothing 10$ mm and then we attach the flange with mounting screws and expansion plugs to the concrete.



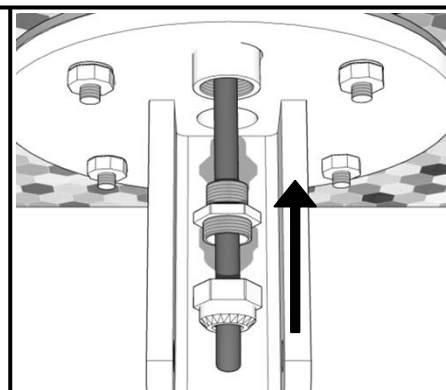
We suggest additionally sealing the hole for the tube chemically.



Put the rubber gasket on the flange mounted in the wall and then punch holes in the pool foil: **1 x $\varnothing 20$ mm** for the tube and **4 x $\varnothing 8$ mm** for the threaded rod. Put the second rubber gasket on the pool foil.

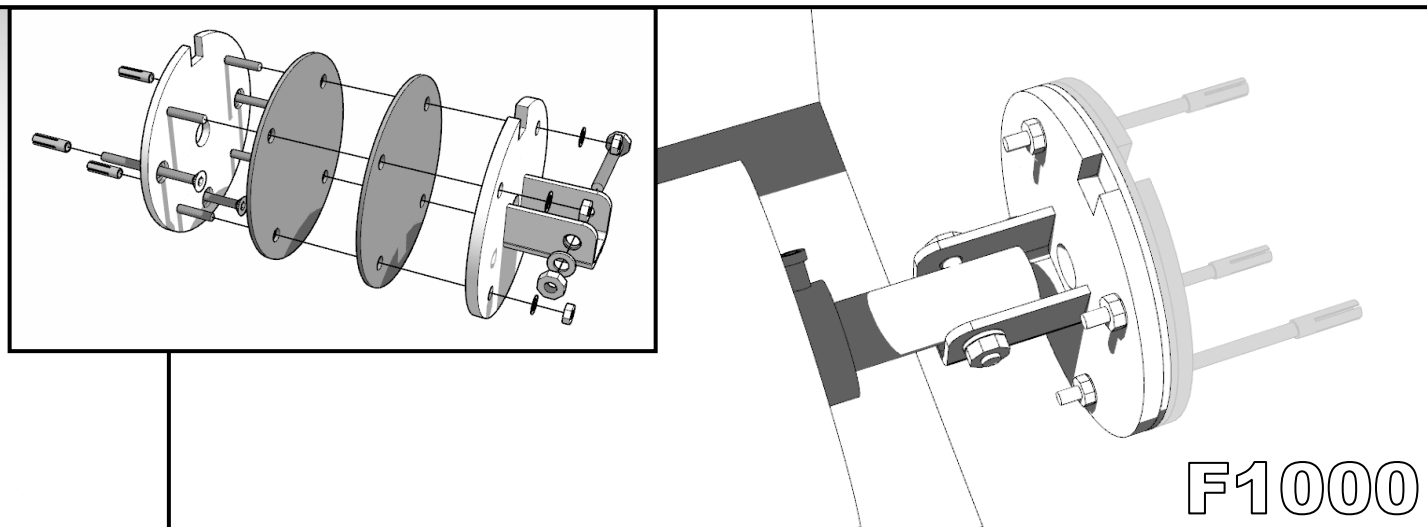


Screw both flanges together using nuts and washers.

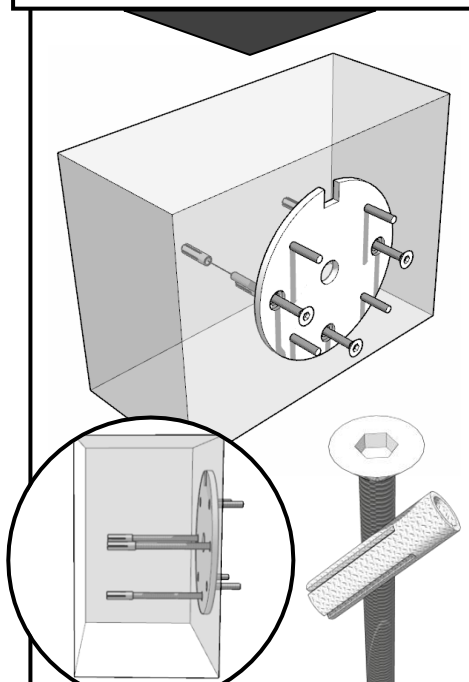


Insert the engine cable into the tube and use a flat wrench to screw the **steel gland** to the tube from the engine side. In the same way, similarly, screw the second **plastic gland** to the end of the tube behind the pool wall.

Properly installed **flange of the shaft end** and cross-section of individual flange elements.

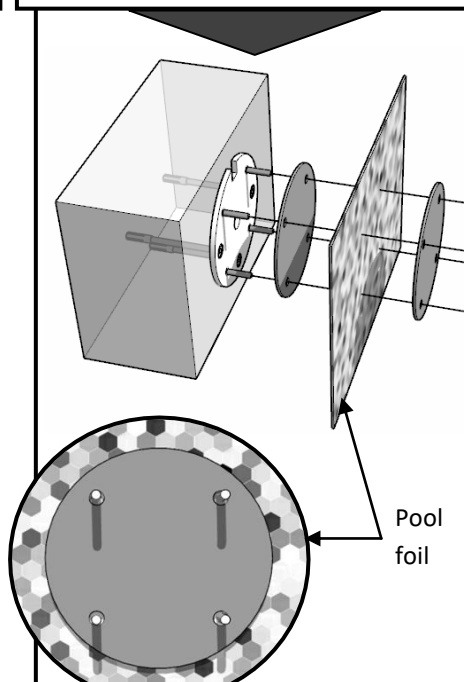


Step 1. Fixing the first flange (to the wall)



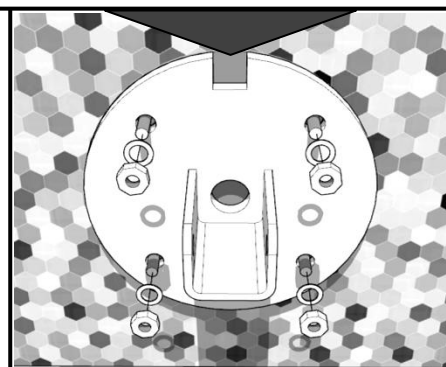
Drill 3 holes in the wall for screws $\varnothing 10 \text{ mm}$ and then attach the flange with mounting screws and concrete expansion plugs.

Step 2. Installation of the rubber seals



Put a rubber seal on the flange mounted in the wall and then punch holes in the pool foil: **4 x $\varnothing 8 \text{ mm}$** for the threaded rod. Put the second rubber gasket on the pool foil.

Step 3. Assembly of the second flange



Screw both flanges together using nuts and washers.

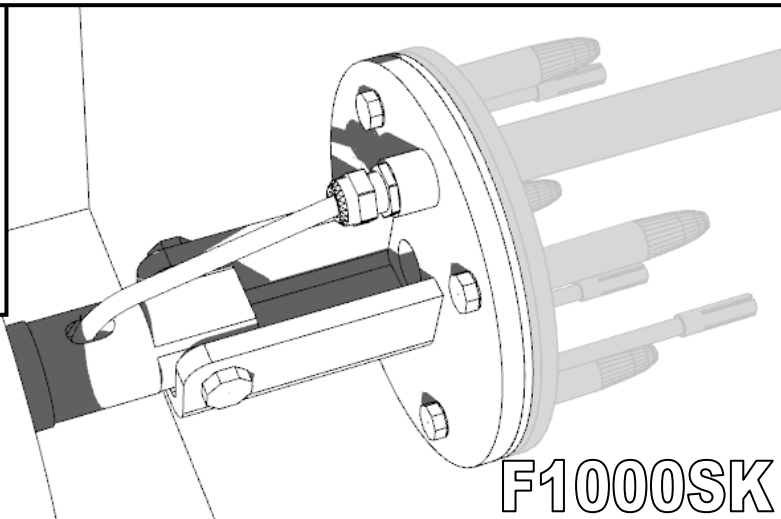
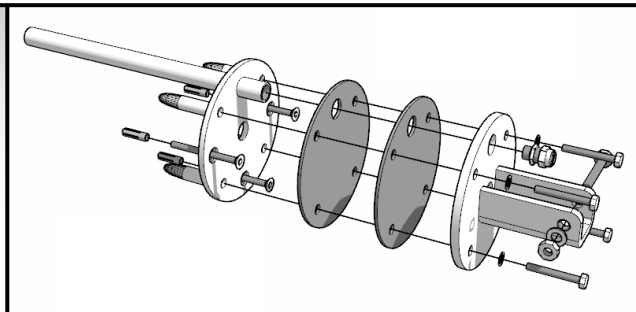
It was the last stage of the assembly.



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Flange assembly engine side drilled into concrete (screwed)

Correctly installed **motor flange** and cross-section of individual flange elements.

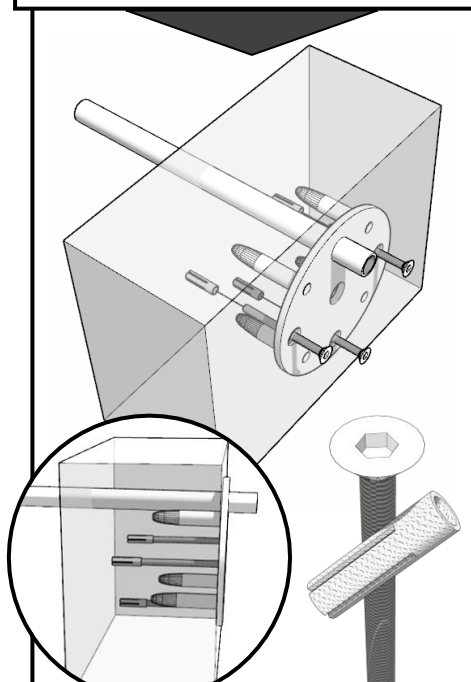


The installation of the flange with a $\varnothing 20$ mm pipe under the motor cable **takes place at the stage of bricklaying the pool** (before installing the foil)!

Step 1. Fixing the first flange (to the wall)

Step 2. Installation of the rubber seals

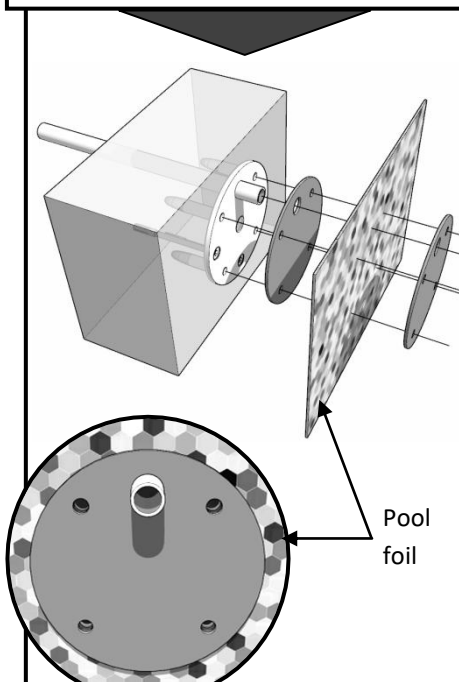
Step 3. Mounting the second flange and inserting the cable



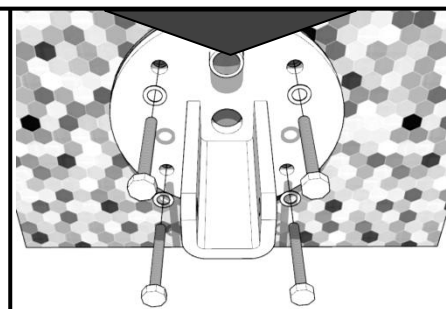
Drill holes in the wall:
 $\varnothing 22 - \varnothing 25$ for a $\varnothing 20$ [mm] pipe,
3 holes for bolts $\varnothing 10$ mm and 4
holes $\varnothing 14$ mm for the cover of the
bolts and then attach the flange
with mounting bolts and expansion
plugs to the concrete.



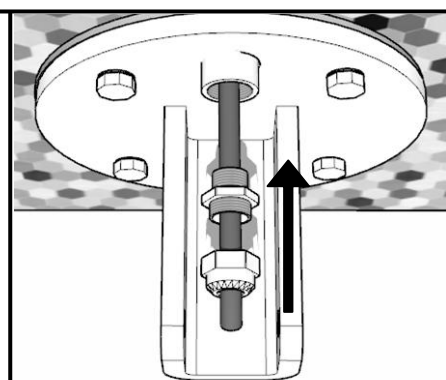
We suggest additionally
sealing the hole for the tube
chemically.



Put the rubber gasket on the
flange mounted in the wall and
then punch holes in the pool foil:
1 x $\varnothing 20$ mm for the tube and **4 x
 $\varnothing 8$ mm** for mounting screws.
Put the second rubber gasket on
the pool foil.

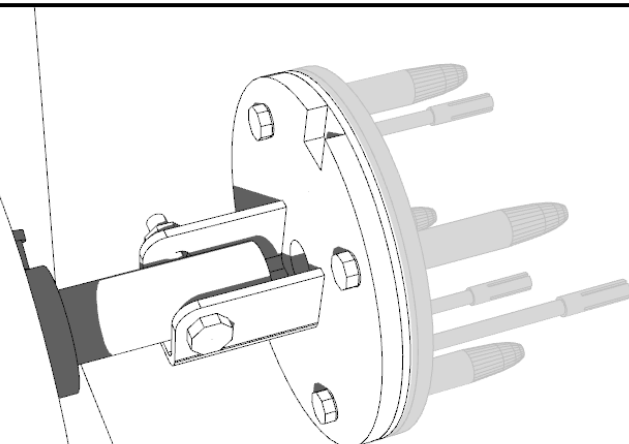
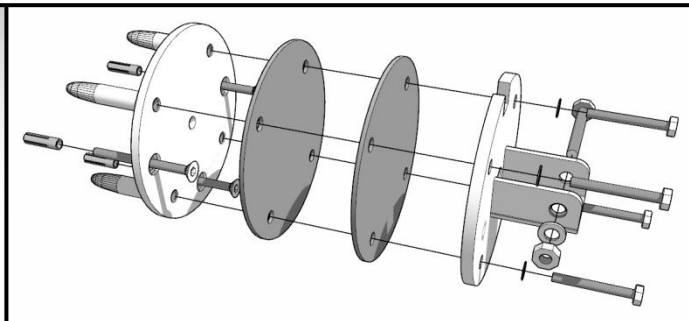


Screw both flanges together with
screws and washers.



Put the motor cable into the pipe
and use a flat wrench to screw the
steel gland to the pipe from the
motor side. In the same way,
similarly, screw the second **plastic
gland** to the end of the tube behind
the pool wall.

Properly installed **flange of the shaft end** and cross-section of individual flange elements.

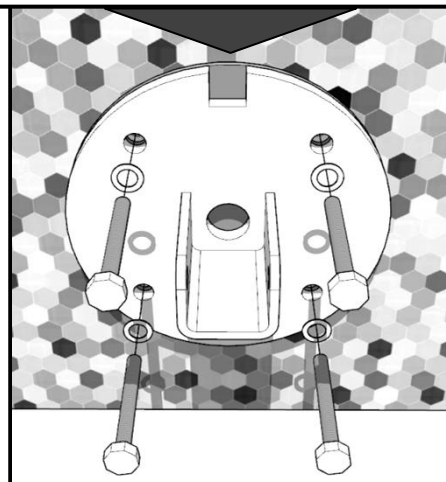
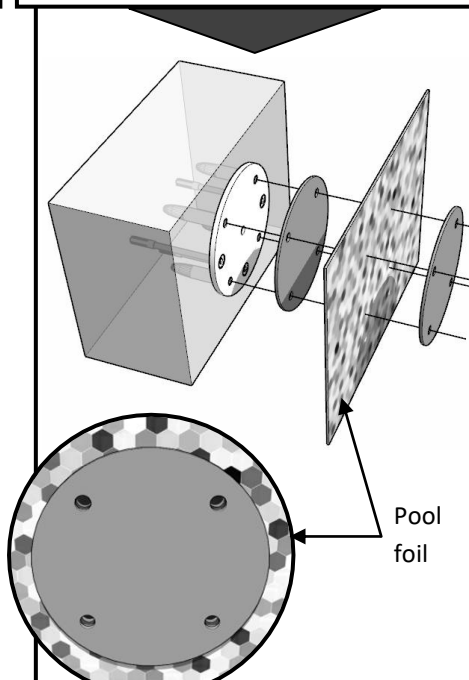
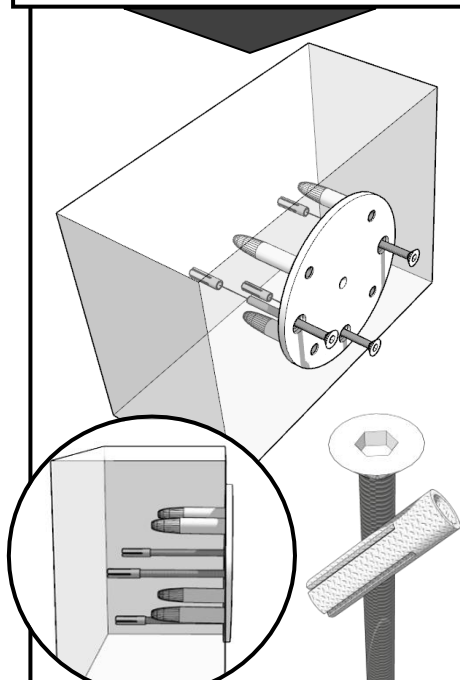


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Step 1. Fixing the first flange (to the wall)

Step 2. Installation of the rubber seals

Step 3. Assembly of the second flange



Drill 3 holes in the wall for the screws $\varnothing 10 \text{ mm}$ and 4 holes $\varnothing 14 \text{ mm}$ for the screw cover and then attach the flange with mounting screws and concrete expansion plugs.

Put a rubber seal on the flange mounted in the wall and then punch holes in the pool foil: $4 \times \varnothing 8 \text{ mm}$ for mounting screws. Put the second rubber gasket on the pool foil.

Screw both flanges together with screws and washers.

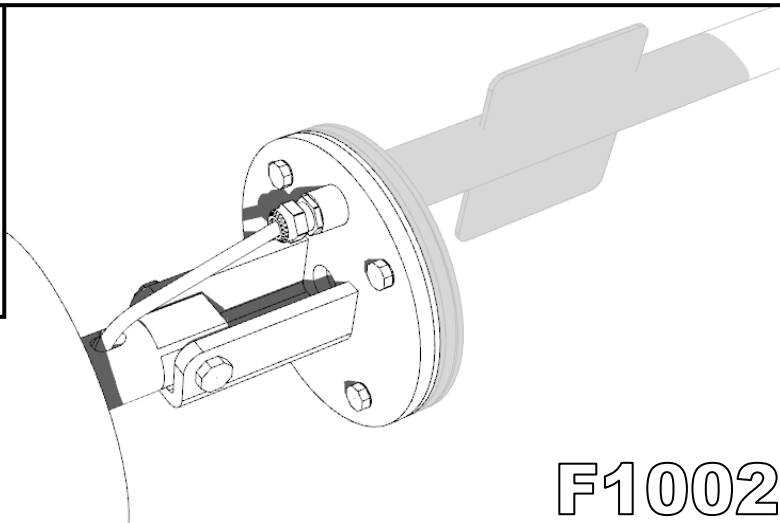
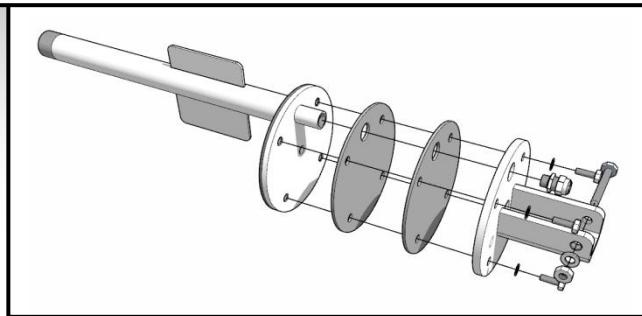
It was the last stage of the assembly.



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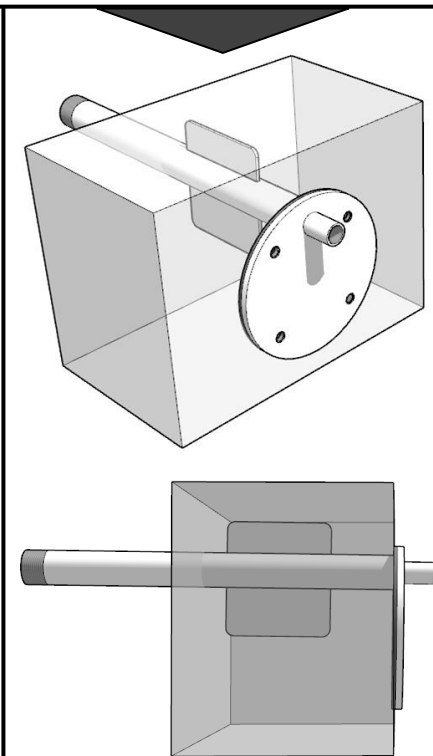
Flange assembly engine side anchored in wet concrete

Correctly installed **motor flange** and cross-section of individual flange elements.



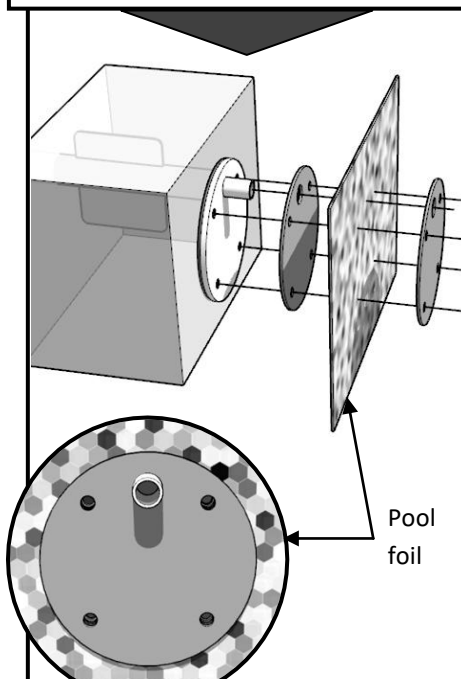
The installation of the flange with anchoring in wet concrete **takes place at the stage of bricklaying the pool** (before installing the foil)!

Step 1. Fixing the first flange (to the wall)



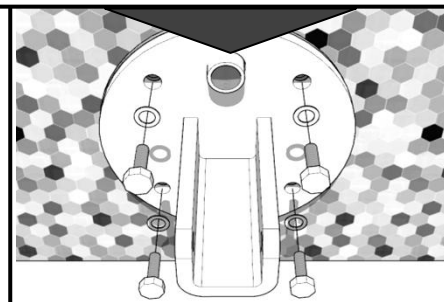
Position the flange anchor in **wet concrete** as shown above. The flange shield should protrude outside the wall (concrete), adhering to it as closely as possible.

Step 2. Rubber gaskets and assembly of the second flange

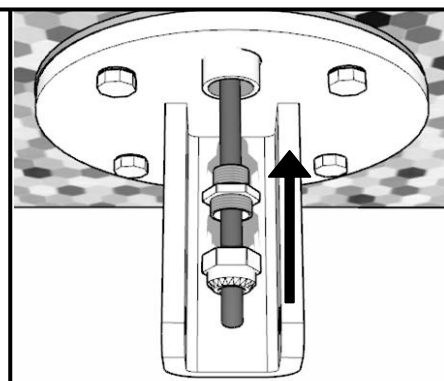


Put the rubber gasket on the flange mounted in the wall and then punch holes in the pool foil: **1 x $\varnothing 20$ mm** for the motor cable pipe and **4 x $\varnothing 8$ mm** for the screw holes. Put the second rubber gasket on the pool foil.

Step 3. Mounting the second flange and inserting the cable

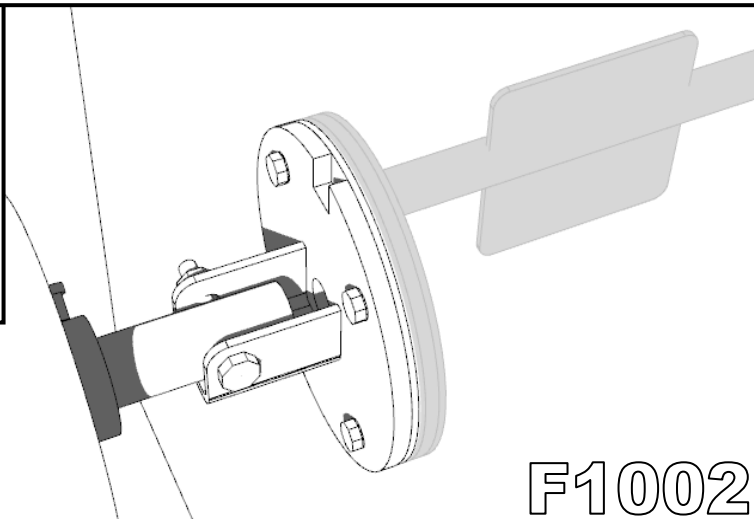
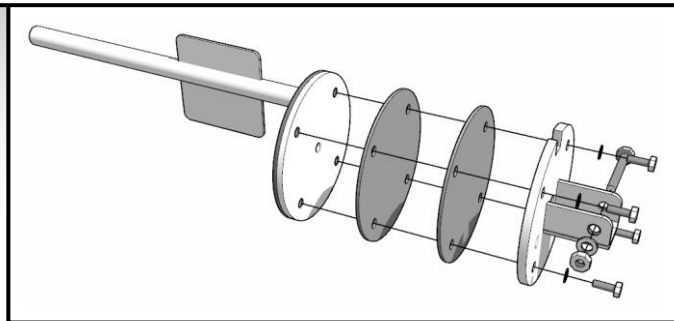


Screw both flanges together with screws and washers.



Put the motor cable into the pipe and use a flat wrench to screw the **steel gland** to the pipe from the motor side. Do not install another gland on the other side of the tube.

Properly installed **flange of the shaft end** and cross-section of individual flange elements.

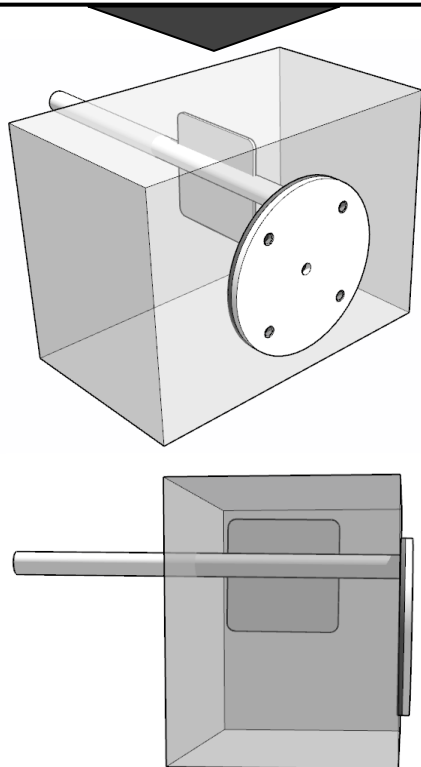


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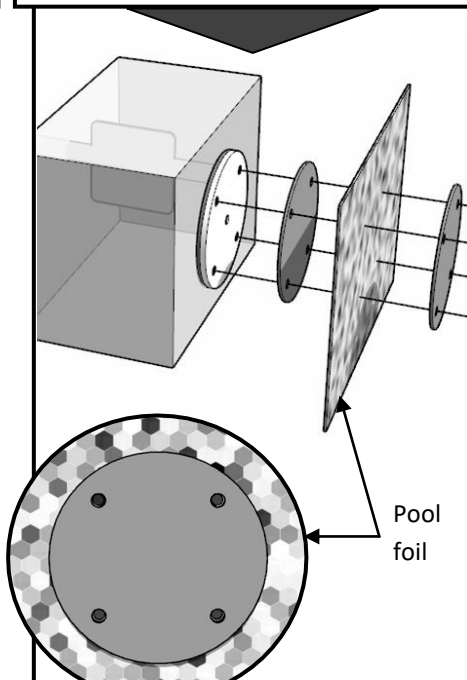
The installation of the flange with anchoring in wet concrete **takes place at the stage of bricklaying the pool** (before installing the foil)!

Step 1. Fixing the first flange (to the wall)



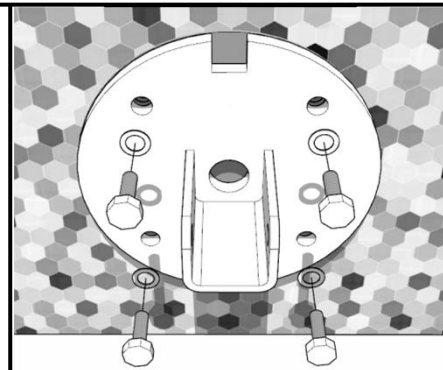
Position the flange anchor in **wet concrete** as shown above. The flange shield should protrude outside the wall (concrete), adhering to it as closely as possible.

Step 2. Rubber gaskets and assembly of the second flange



Put the rubber seal on the flange mounted in the wall and then punch holes in the pool foil: **4 x $\varnothing 8$ mm** for screw holes. Put the second rubber gasket on the pool foil.

Step 3. Assembly of the second flange



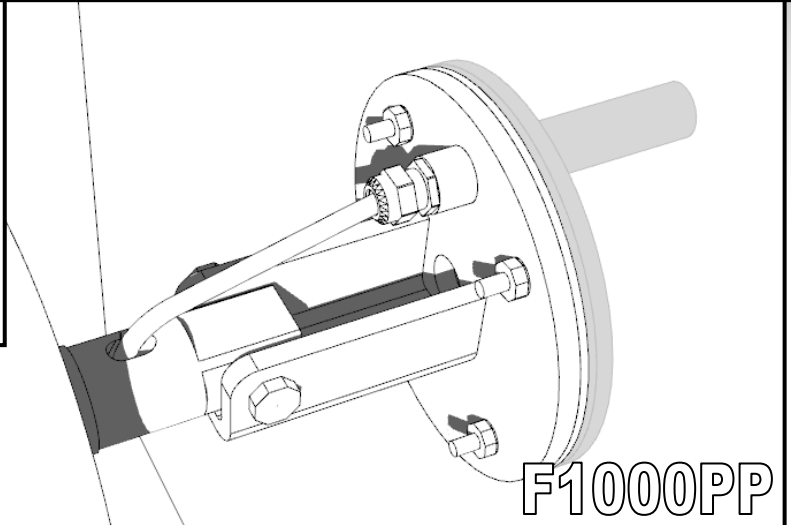
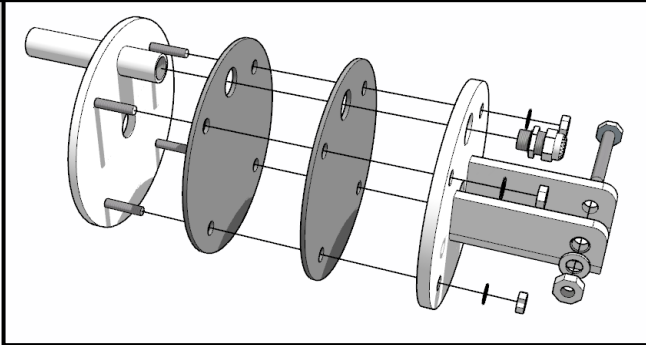
Screw both flanges together with screws and washers.

It was the last stage of the assembly.



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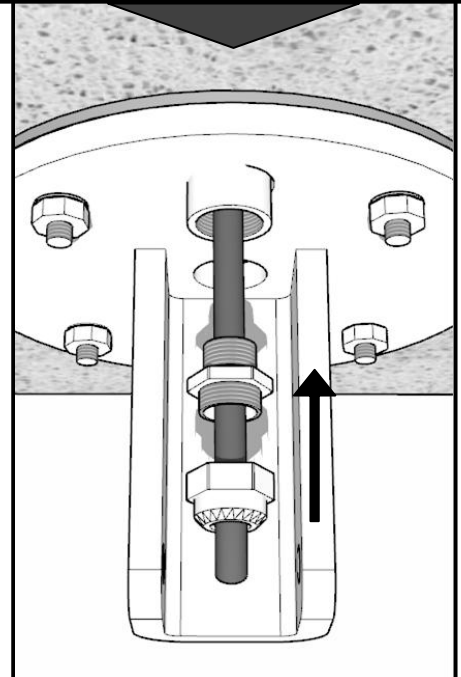
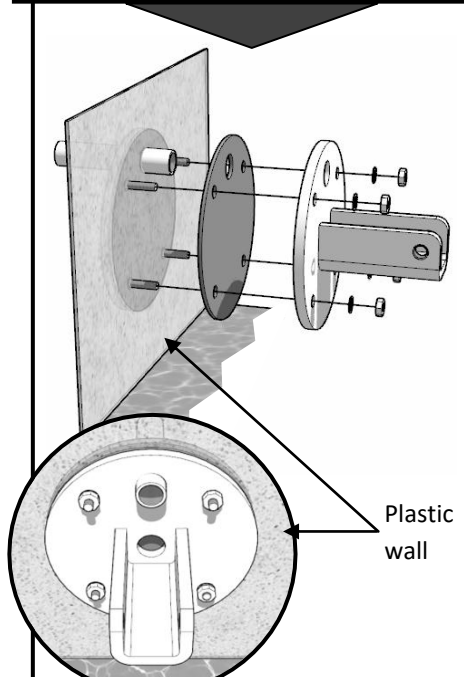
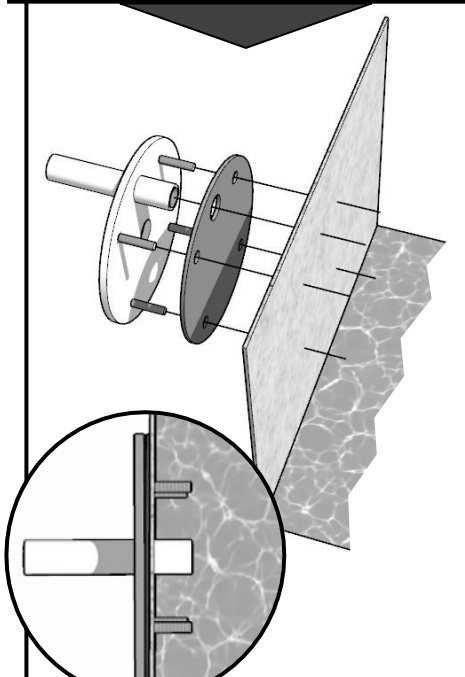
Correctly installed **motor flange** and cross-section of individual flange elements.



Step 1. Fixing the first flange with sealing gum

Step 2. Fixing the second flange with sealing gum

Step 3. Leading the cable through the glands

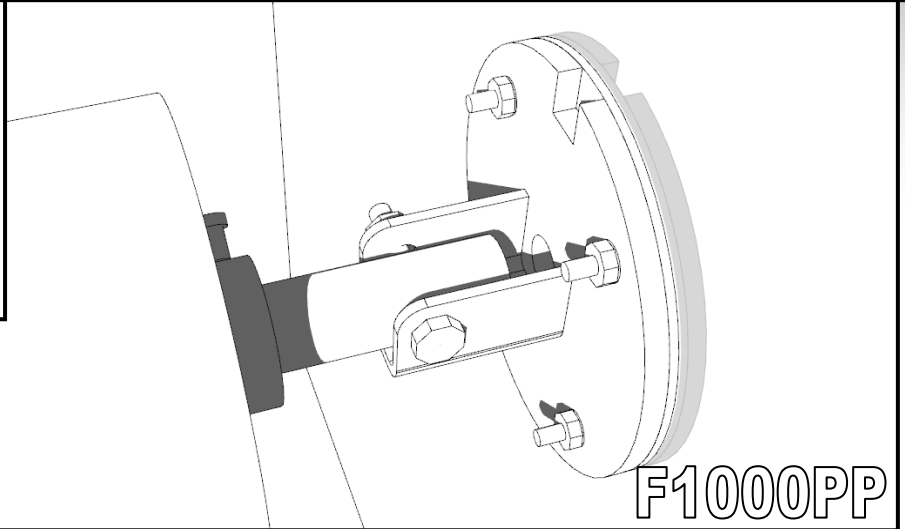
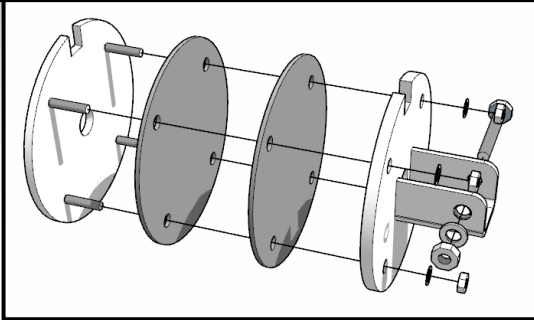


The first part of the flange will be installed on the outer side of the pool (plastic) wall. To do this, punch holes: **1 x $\varnothing 20$ mm** for the tube and **4 x $\varnothing 8$ mm** for the threaded rod. Insert the tube and rods through the wall as in the picture above.

Apply the second sealing gum and the second flange to the threaded rods and tube from the inside of the pool. Screw both flanges together using the nuts and washers.

Put the motor cable into the pipe and use a flat wrench to screw the **steel gland** to the pipe from the motor side. In the same way, similarly, screw the second **plastic gland** to the end of the tube behind the pool wall.

Properly installed **flange of the shaft end** and cross-section of individual flange elements.

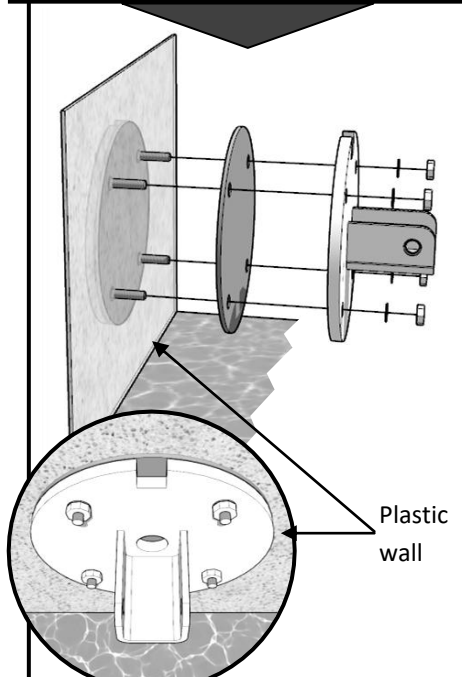
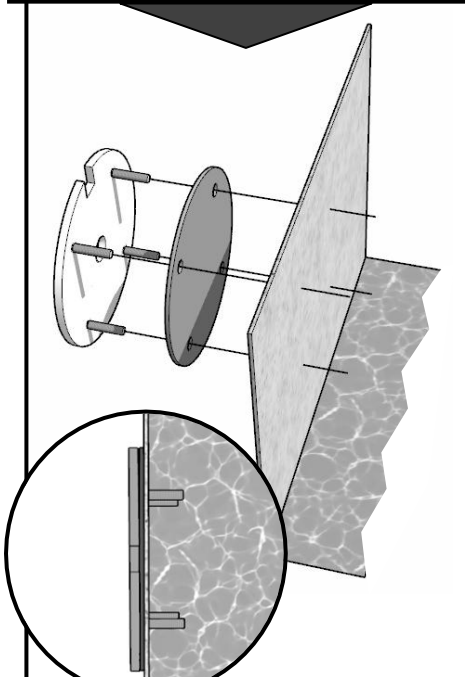


Step 1. Fixing the first flange with sealing gum

Step 2. Fixing the second flange with sealing gum



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Shaft assembly - page 16

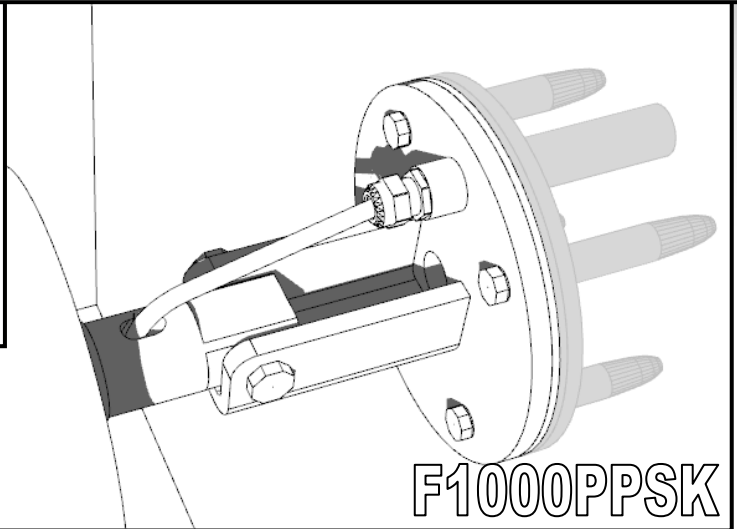
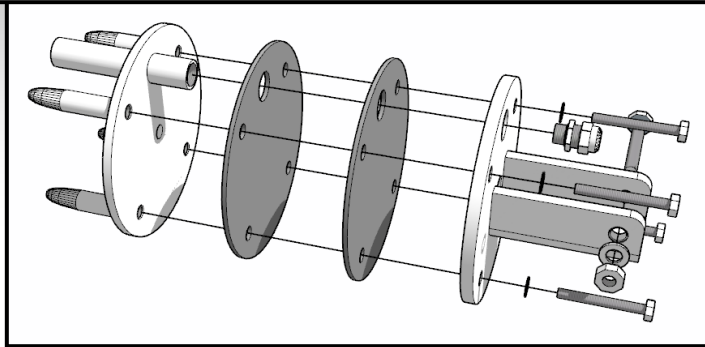


The first part of the flange will be installed on the outer side of the pool (plastic) wall. To do this, punch holes: **4 x $\varnothing 8$ mm** for the threaded rod. Thread the bars through the wall as shown above.

Apply the second sealing gum and the second flange to the threaded rods on the inside of the pool. Screw both flanges together using the nuts and washers.

It was the last stage of the assembly.

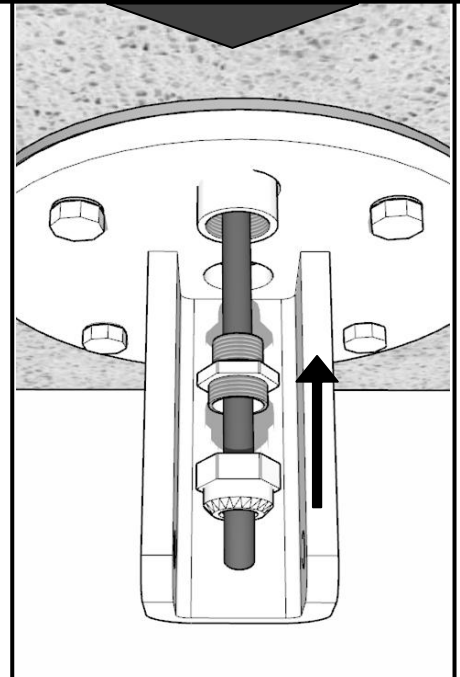
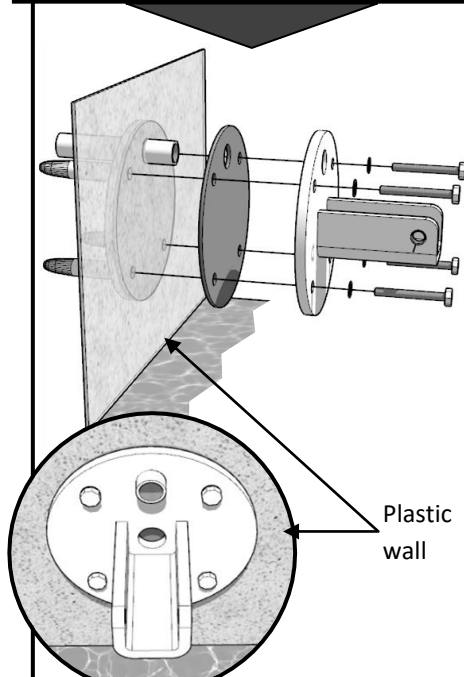
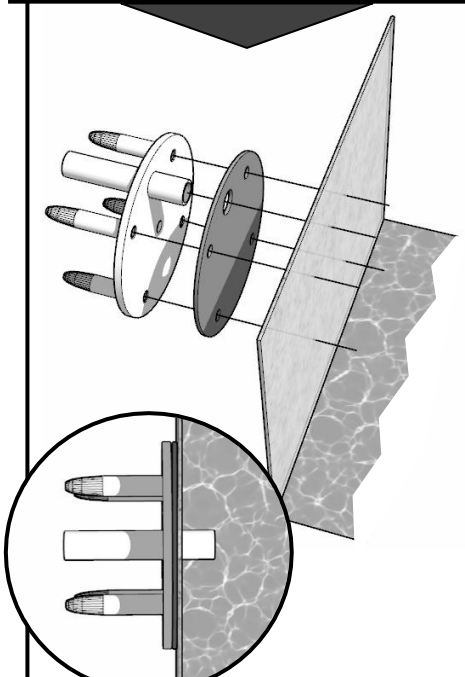
Correctly installed **motor flange** and cross-section of individual flange elements.



Step 1. Fixing the first flange with sealing gum

Step 2. Fixing the second flange with sealing gum

Step 3. Leaving the cable through the glands

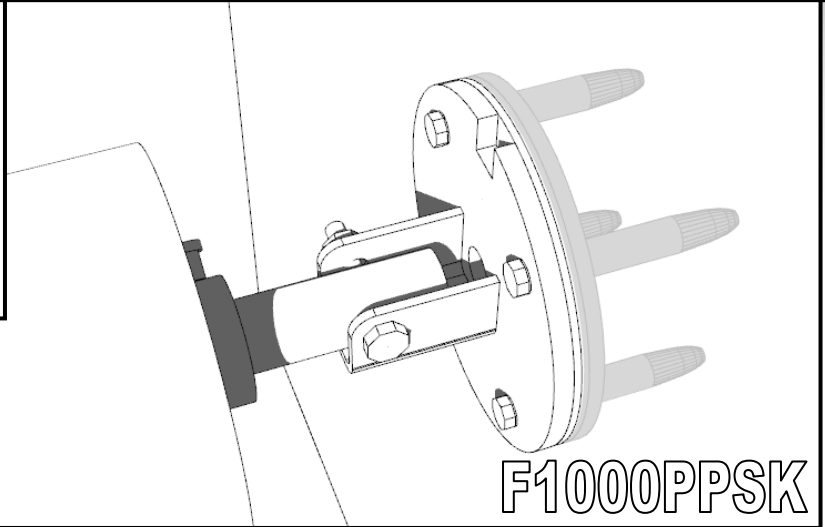
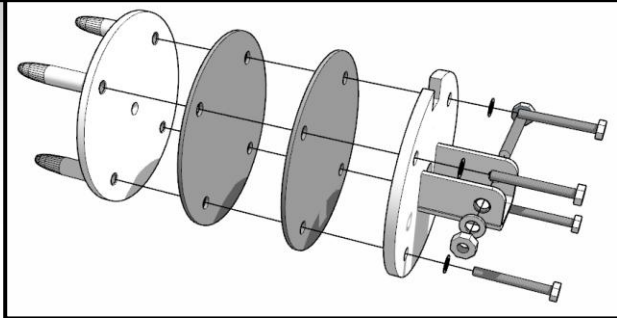


The first part of the flange will be installed on the outer side of the pool (plastic) wall. To do this, punch holes: **1 x $\varnothing 20$ mm** for the tube and **4 x $\varnothing 8$ mm** for mounting screws. Put the tube through the wall as shown in the picture above.

Apply the second sealing gum and the second flange to the tube from the inside of the pool. Screw both flanges together using mounting screws and washers.

Put the motor cable into the pipe and use a flat wrench to screw the **steel gland** to the pipe from the motor side. In the same way, in the same way, screw the second **plastic gland** to the end of the pipe behind the pool wall.

Properly installed **flange of the shaft end** and cross-section of individual flange elements.

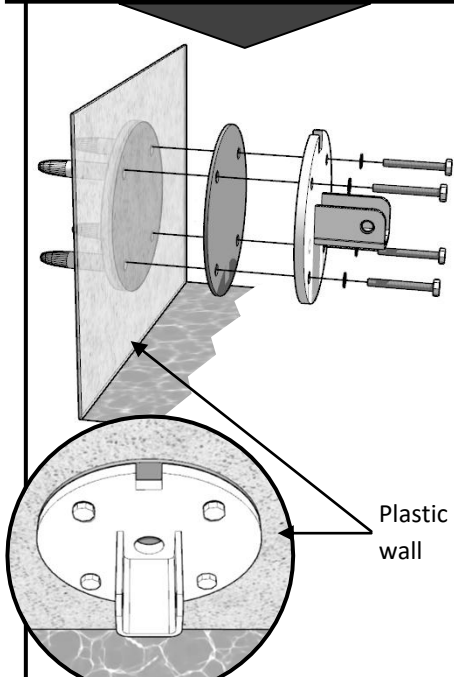
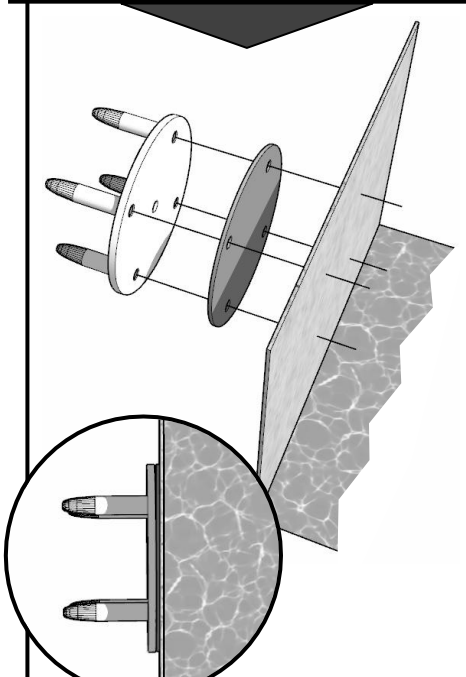


Step 1. Fixing the first flange with sealing gum

Step 2. Fixing the second flange with sealing gum



Go to chapter:
Shaft assembly - page 16



Plastic wall

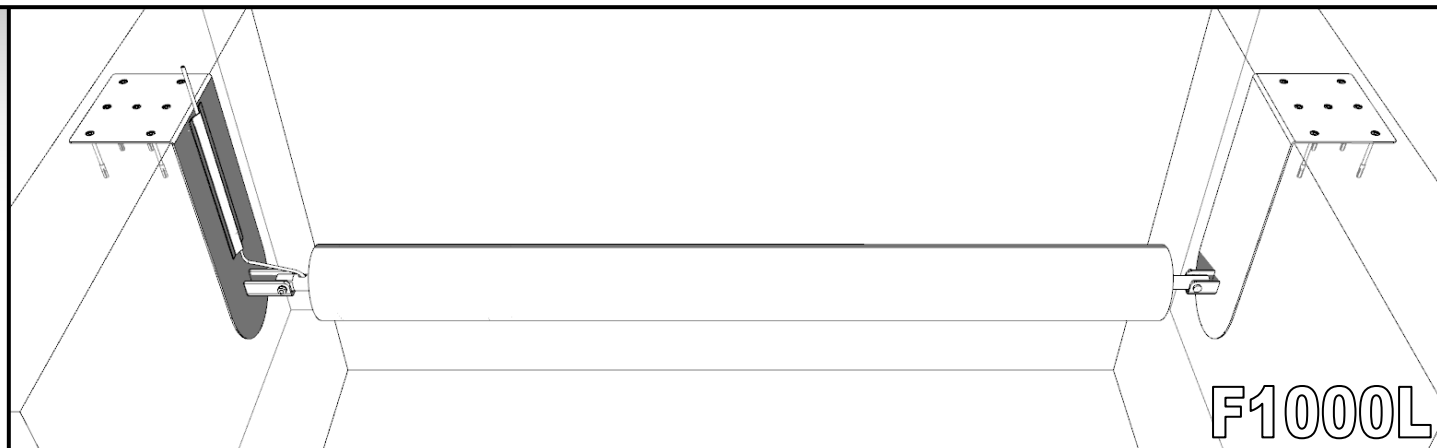
The first part of the flange will be installed on the outer side of the pool (plastic) wall. To do this, punch holes: **4 x $\varnothing 8$ mm** for mounting screws. Place the flange against the wall as shown above.

Apply the second sealing gum and the second flange to the holes on the inside of the pool. Screw both flanges together using mounting screws and washers.

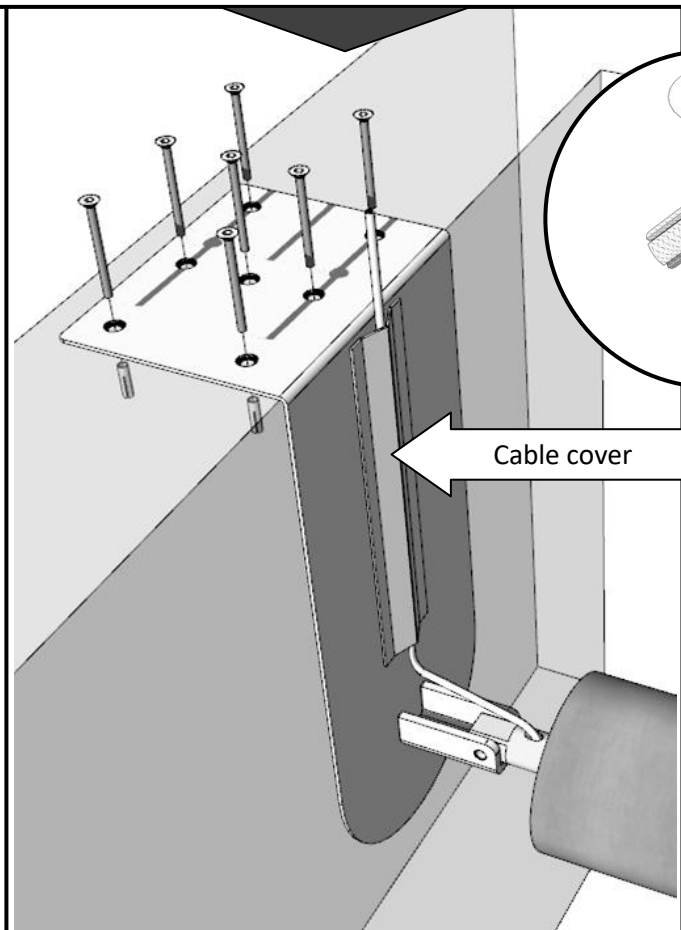
It was the last stage of the assembly.

Flange assembly side plates

Correctly installed side plates.

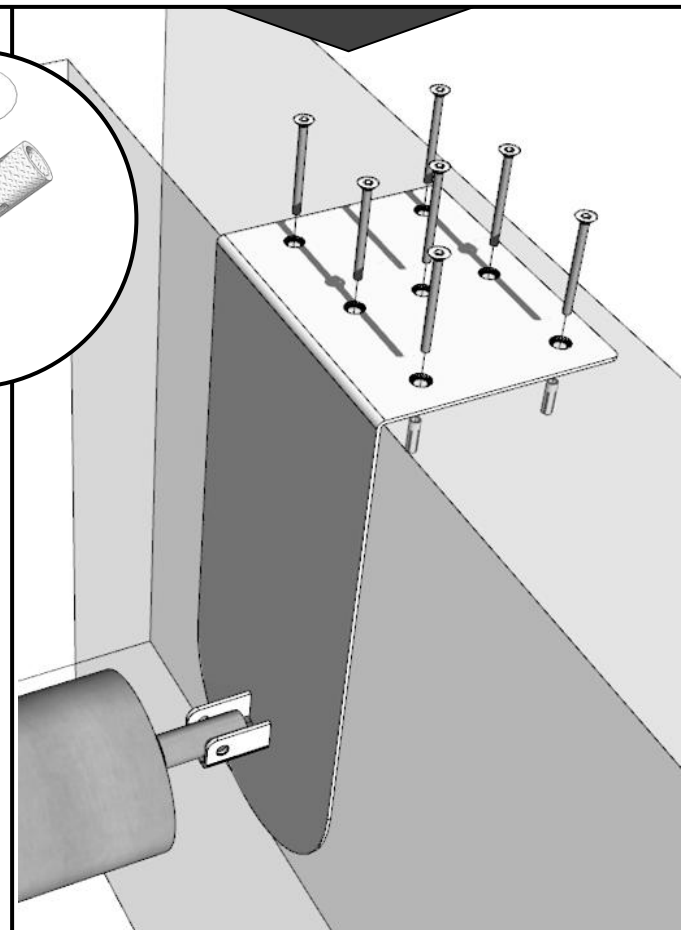


Step 1. Fixing the engine flange



Drill 7 holes for mounting screws $\varnothing 10$ mm. Anchor the sheet metal with expansion bolts and then lead the wire outside through the cable sheath.

Step 2. Fixing the shaft end flange



In the same way, drill holes and anchor the plate.
It was the last stage of the assembly.

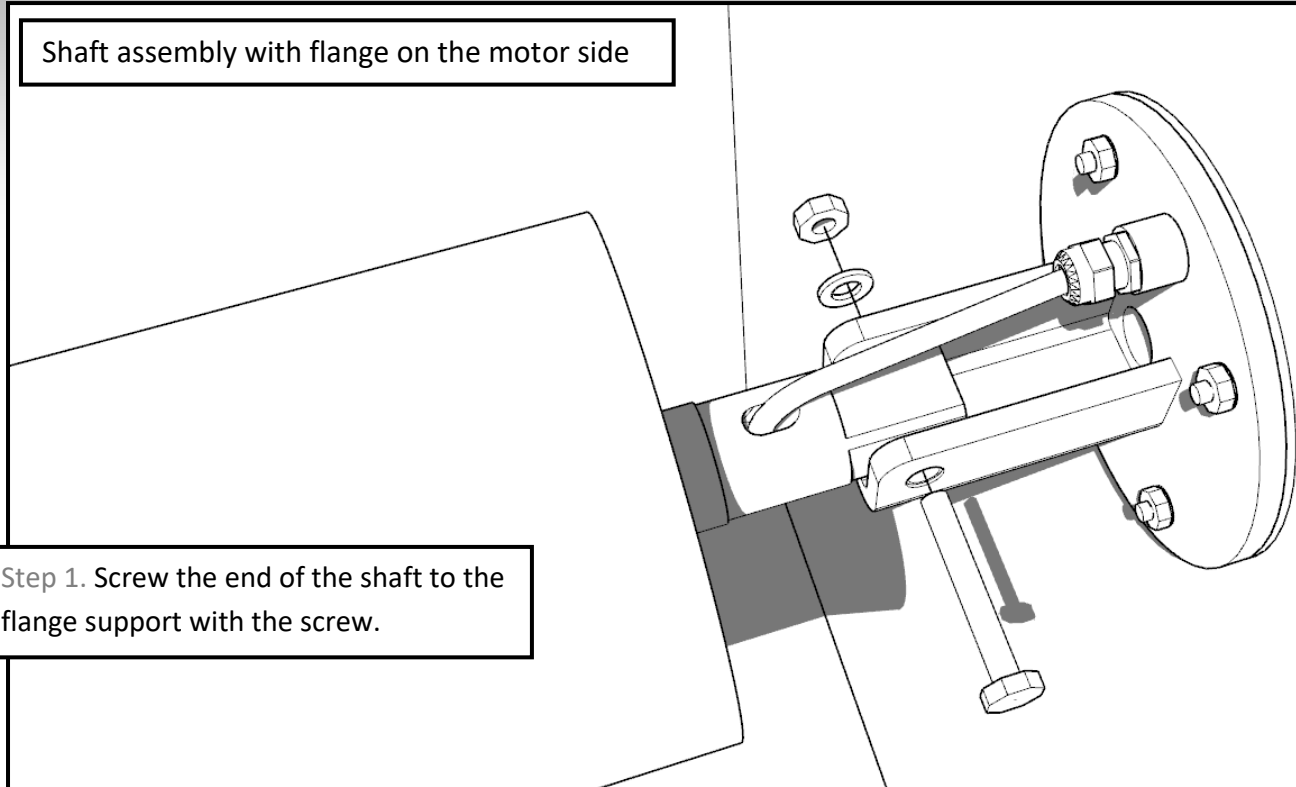


Go to chapter:
Shaft assembly - page 16

Shaft assembly

Shaft assembly with flange on the motor side

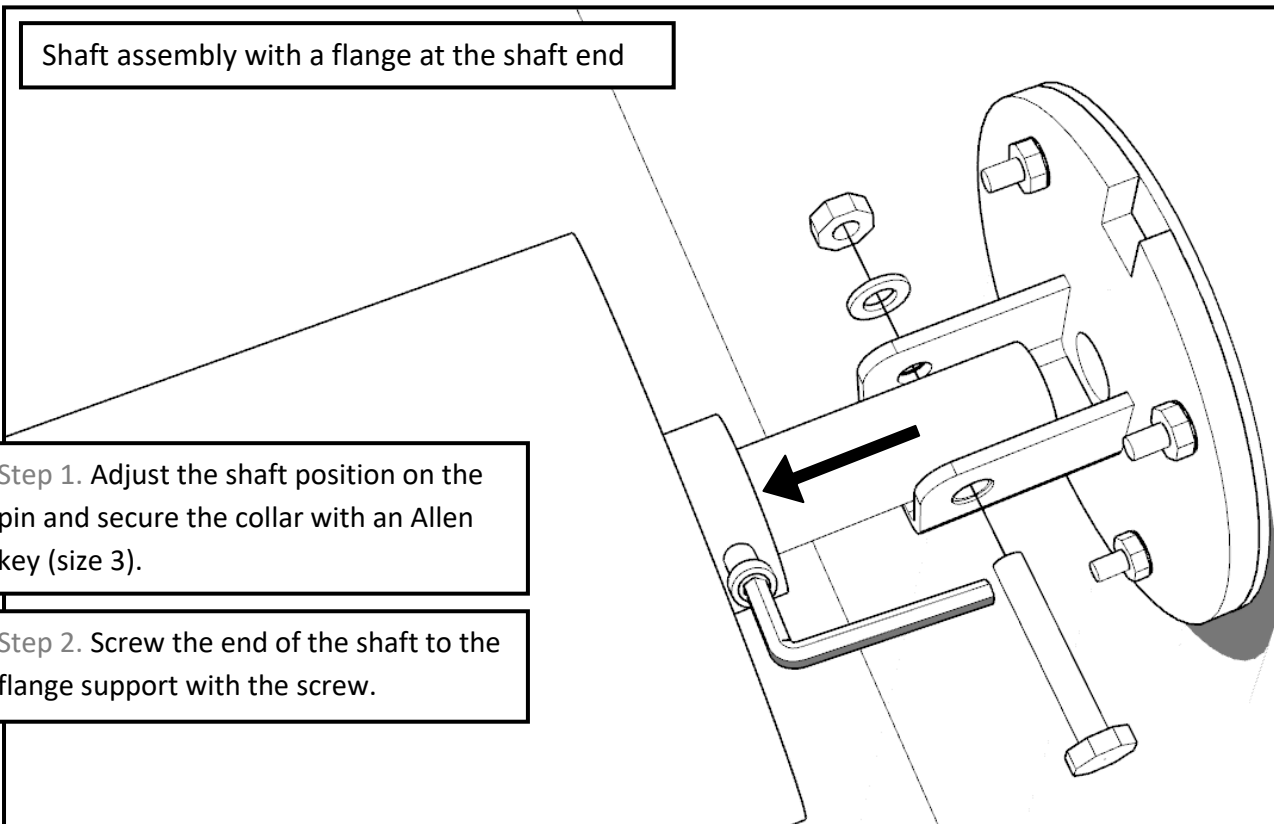
Step 1. Screw the end of the shaft to the flange support with the screw.



Shaft assembly with a flange at the shaft end

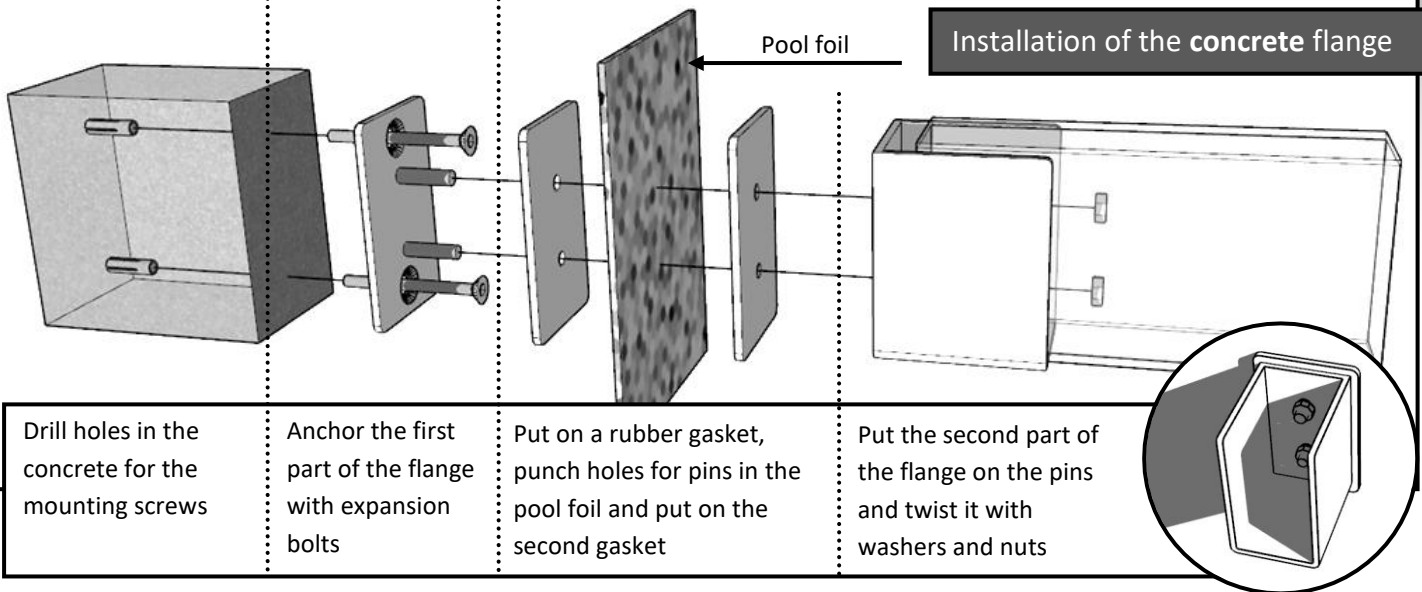
Step 1. Adjust the shaft position on the pin and secure the collar with an Allen key (size 3).

Step 2. Screw the end of the shaft to the flange support with the screw.

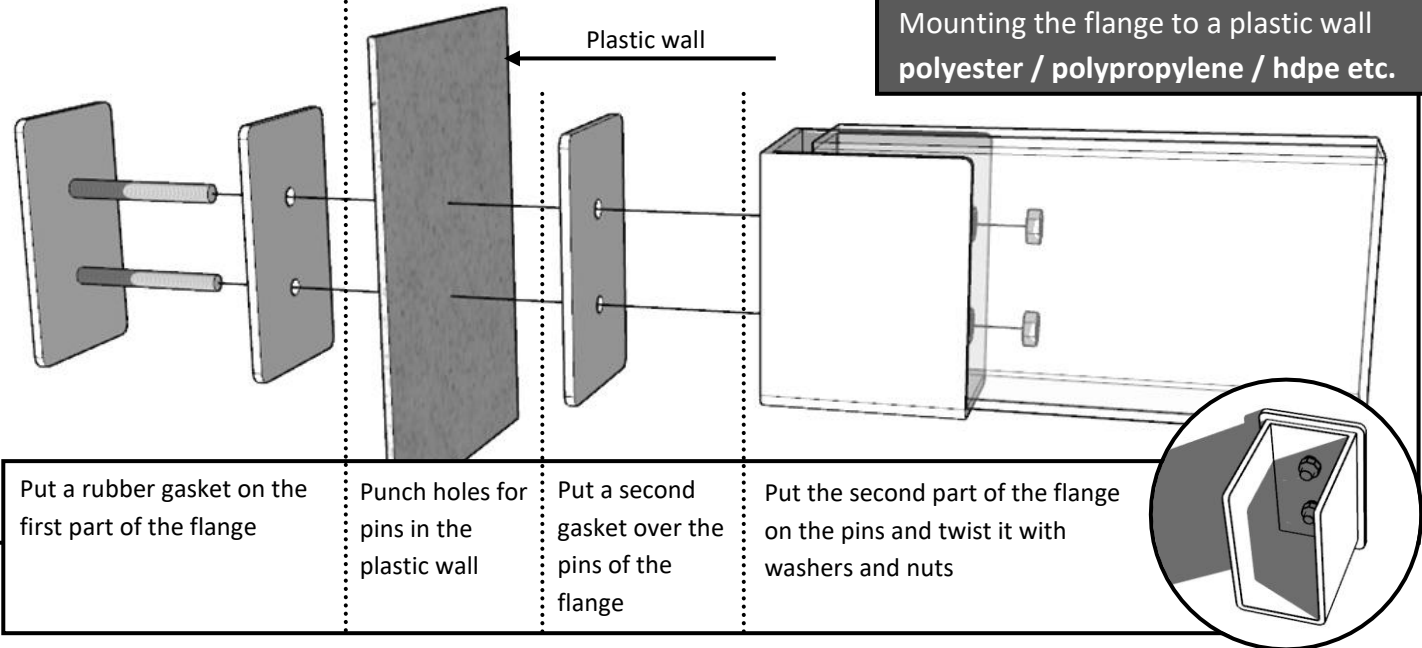


Beam flanges

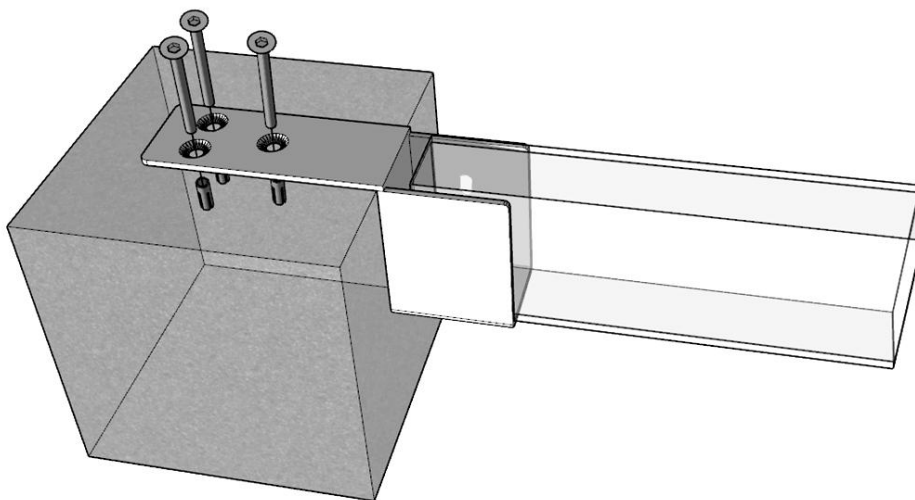
Installation of the **concrete** flange



Mounting the flange to a plastic wall **polyester / polypropylene / hdpe etc.**



Top mounting of the **concrete** flange



Drill holes in the concrete for the mounting bolts and anchor the flange with expansion bolts.

In this variant, the flange is one-piece and does not contain rubber seals.

Assembly of the structure - marking of components

The assembly elements are described according to the diagram below.

P Construction plates

Mounted:

- to the **top**: **G**
- **bottom (side)**: **D**

The numbers are assigned sequentially from left to right **1,2,3..**

The designation **F** is used for milled plates (first and last)

One by one: P-G3, P-G4..

P-G1

P-G2

P-D1 F

P-D2

One by one: P-D3, P-D4..

LEFT
SIDE

RIGHT
SIDE

B Structure beams,
Mounted as **top**: **G** as **bottom**: **D** Numbers
consecutively counting from the back wall of the pool:
1,2,3,4.. Beams with rollers are marked with: **R**

B-G1 R

B-G2

B-D1



It is not allowed to replace the elements with places! Each element has its place and has been prepared for assembly according to the diagram.

Additionally, for ease of installation, each plate has been marked with a sticker with the **number, side and direction of installation**.

ŚCIANA / WALL / MAUER P-G1 DO SIEBIE / SIDE TO YOURSELF / SEITE FÜR DICH	FRONT VORDERSEITE
---	----------------------

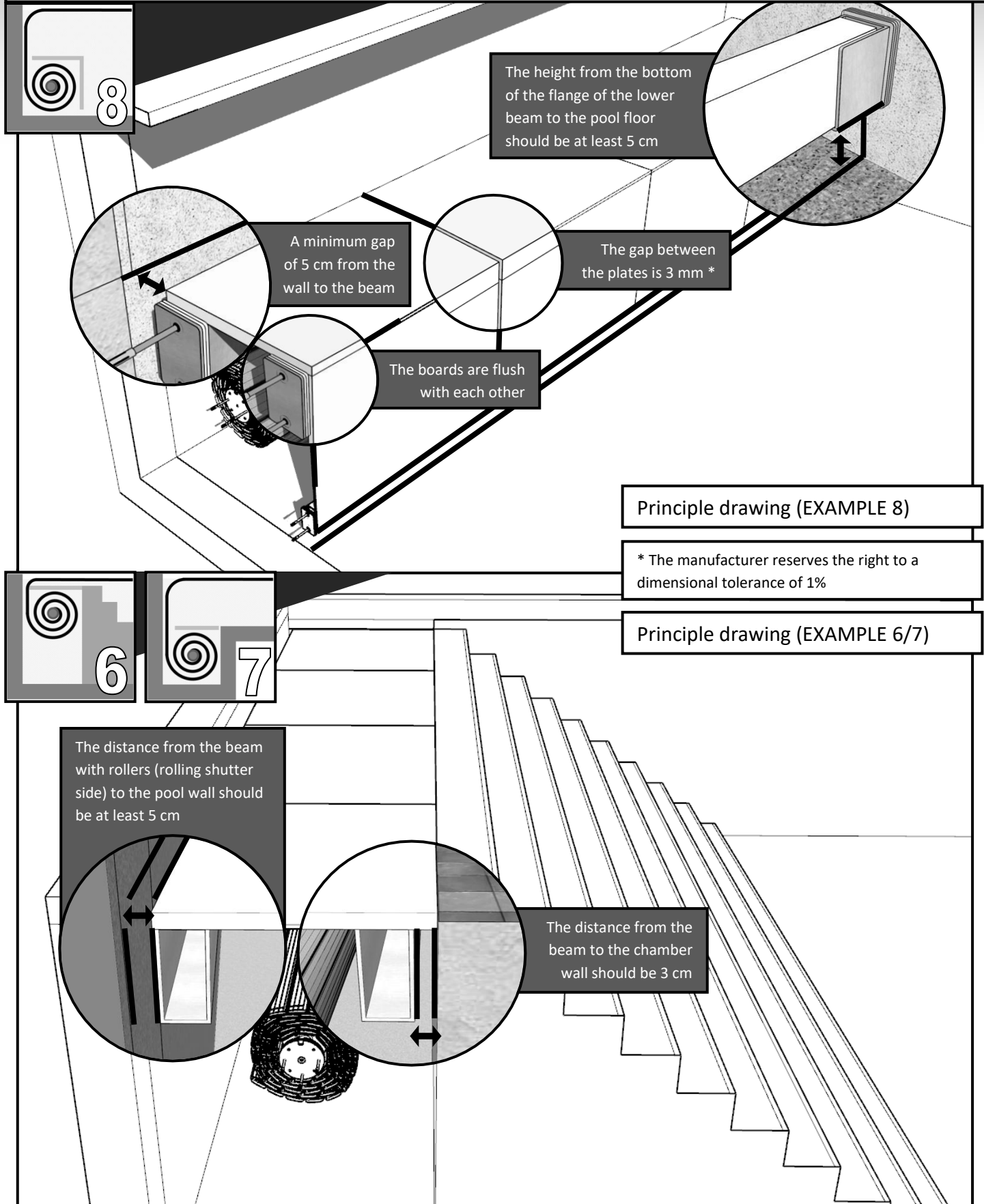
GÓRA / TOP / OBEN P-D1 DÓŁ / BOTTOM / UNTERSEITE	FRONT VORDERSEITE
---	----------------------

The beams, apart from the sticker with their number, have **stickers with the plate numbers** in the places where they should be installed.

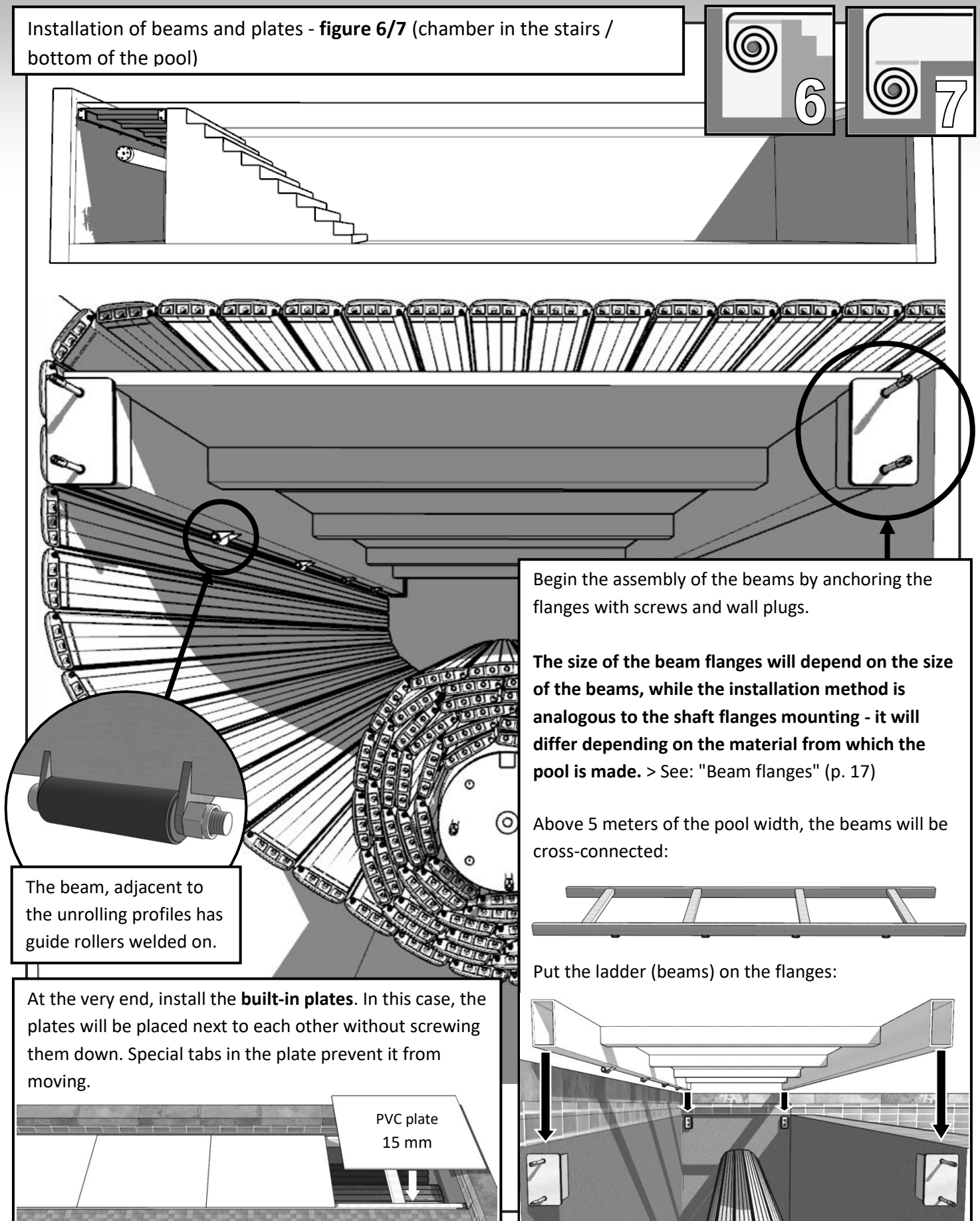
P-4

LEWA / LEFT / LINKS B-G2 PRAWA / RIGHT / RECHTS	GÓRA TOP OBEN
--	---------------------

Familiarize yourself with the following information - they are crucial for the correct assembly of the body.



Installation of beams and plates - **figure 6/7** (chamber in the stairs / bottom of the pool)



Begin the assembly of the beams by anchoring the flanges with screws and wall plugs.

The size of the beam flanges will depend on the size of the beams, while the installation method is analogous to the shaft flanges mounting - it will differ depending on the material from which the pool is made. > See: "Beam flanges" (p. 17)

Above 5 meters of the pool width, the beams will be cross-connected:



Put the ladder (beams) on the flanges:




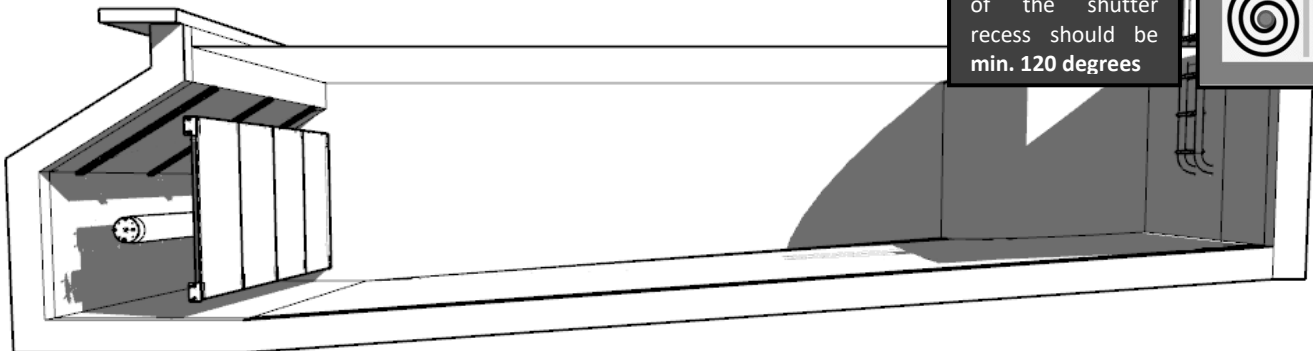
The beam, adjacent to the unrolling profiles has guide rollers welded on.

At the very end, install the **built-in plates**. In this case, the plates will be placed next to each other without screwing them down. Special tabs in the plate prevent it from moving.

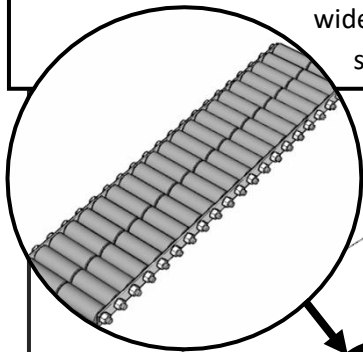
PVC plate
15 mm

Installation of beams and plates - **figure 1** (niche with an inclined wall)

 The obtuse angle of the shutter recess should be min. 120 degrees



In order to ensure the appropriate collision-free orientation of the roller shutter profiles, install wide guide rollers to the sloping wall.

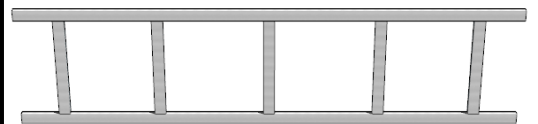


Begin the assembly of the beams by anchoring the flanges with screws and wall plugs.

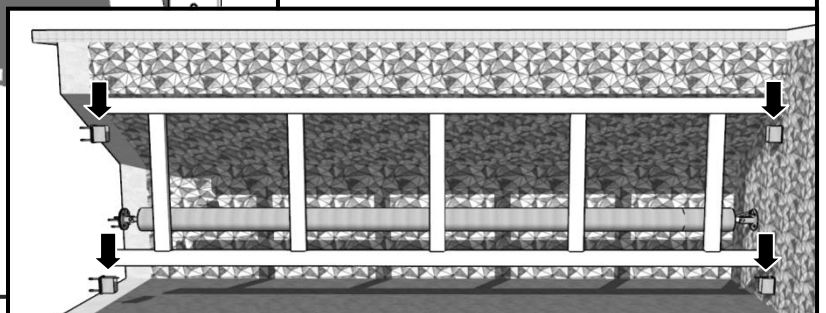
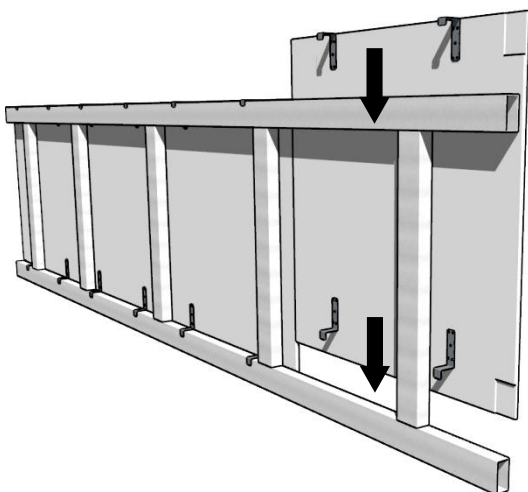
The size of the beam flanges will depend on the size of the beams, while the installation method is analogous to the shaft flanges mounting - it will differ depending on the material from which the pool is made. > See: "Beam flanges" (p. 17)

At the very end, install the **built-in plates**. In this case, the boards will be hung on the already installed special holders.

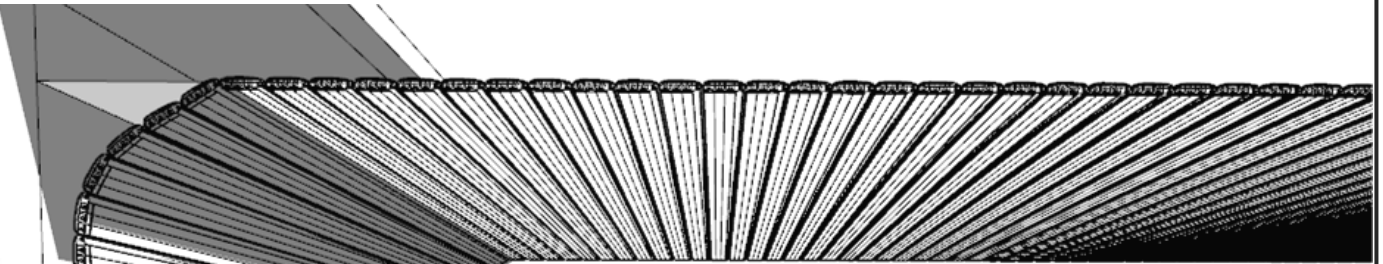
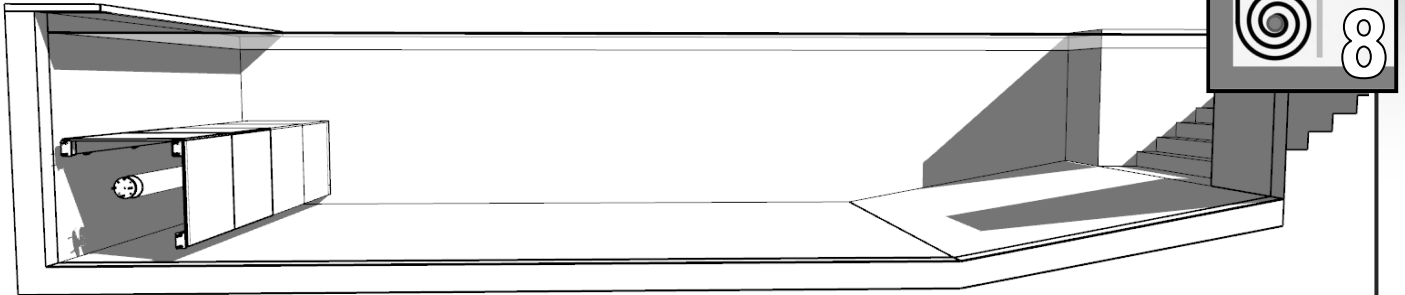
The beams will be connected to each other vertically, resembling a ladder:



Put the construction on the flanges:



Installation of beams and plates - **figure 8** (bench)



Begin the assembly of the beams by anchoring the flanges with screws and wall plugs.

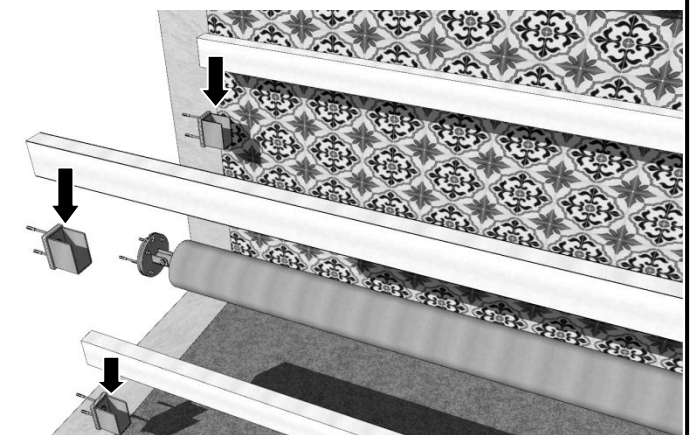
The size of the beam flanges will depend on the size of the beams, while the installation method is analogous to the shaft flanges mounting - it will differ depending on the material from which the pool is made.

> See: "Beam flanges" (p. 17)

In pools up to 5 m wide, we have 3 separate beams, including one with welded-on guide rollers:



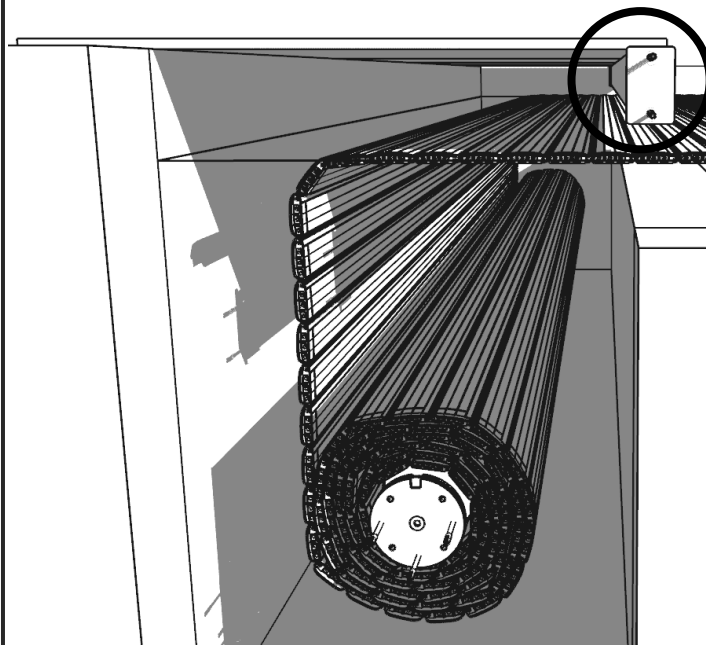
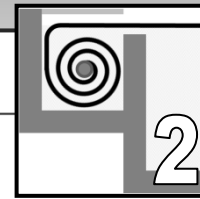
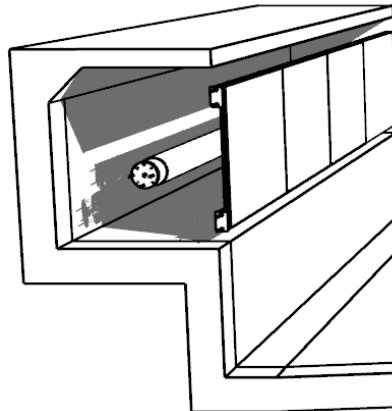
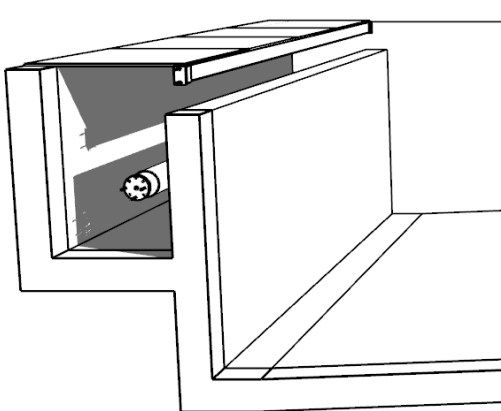
Put the beams on the flanges one by one:



The beam, adjacent to the unrolling profiles has guide rollers welded on.

The installation plates are installed as follows: the upper plates are placed next to each other directly on the beams (special tabs in the plate prevent sliding). The side plates must be screwed to the beams with the provided screws. Both the beams and the plates have already been drilled, threaded and milled.

Installation of beams and plates - **figure 2/3** (side niche)

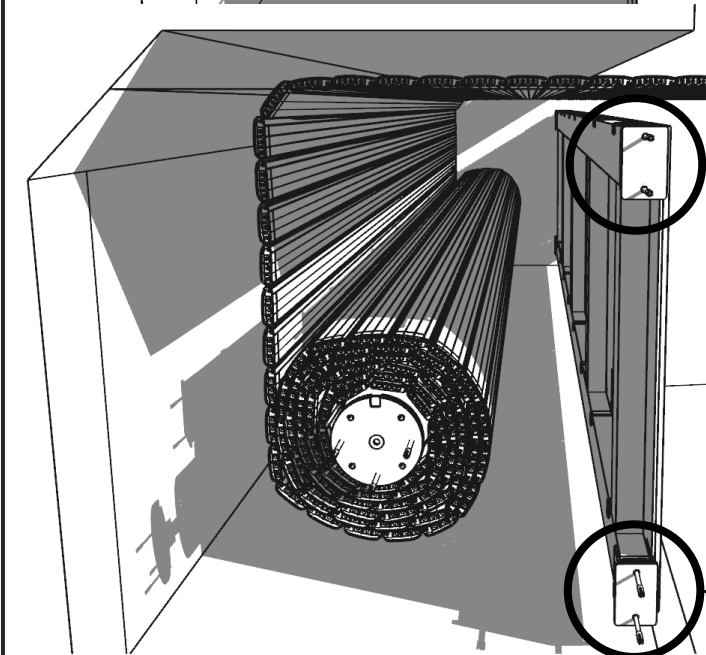
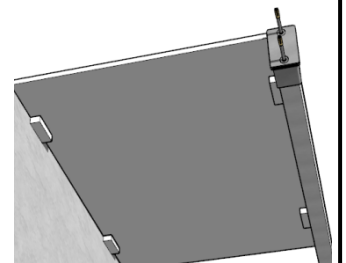


Begin the assembly of the beams by anchoring the flanges with screws and wall plugs. > "*Beam flanges*"

In this case, install only one beam. Put it on the mounted flanges from above:

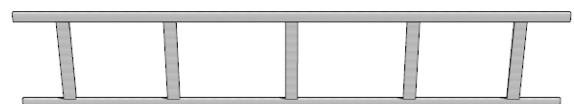


Arrange the plates one by one, leaning them against the pool wall and on the flange on the other side. Special tabs in the plate prevent them from moving.

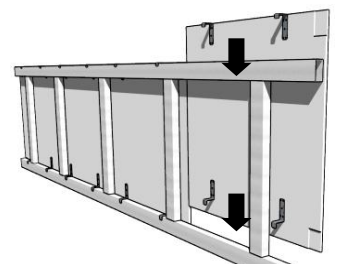


Begin the assembly of the beams by anchoring the flanges with screws and wall plugs. > "*Beam flanges*"

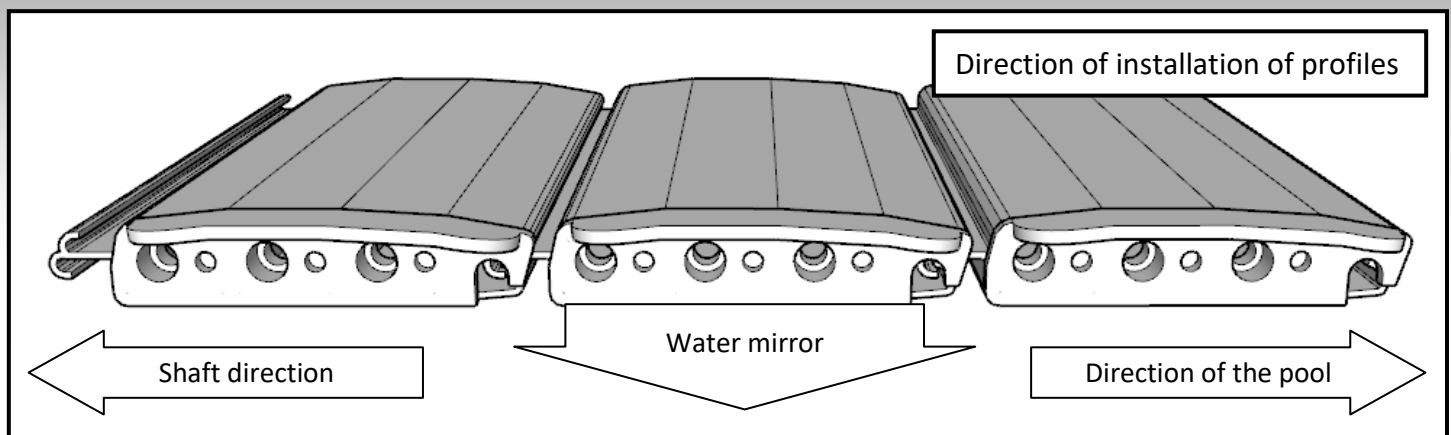
The beams will be connected to each other vertically, resembling a ladder:



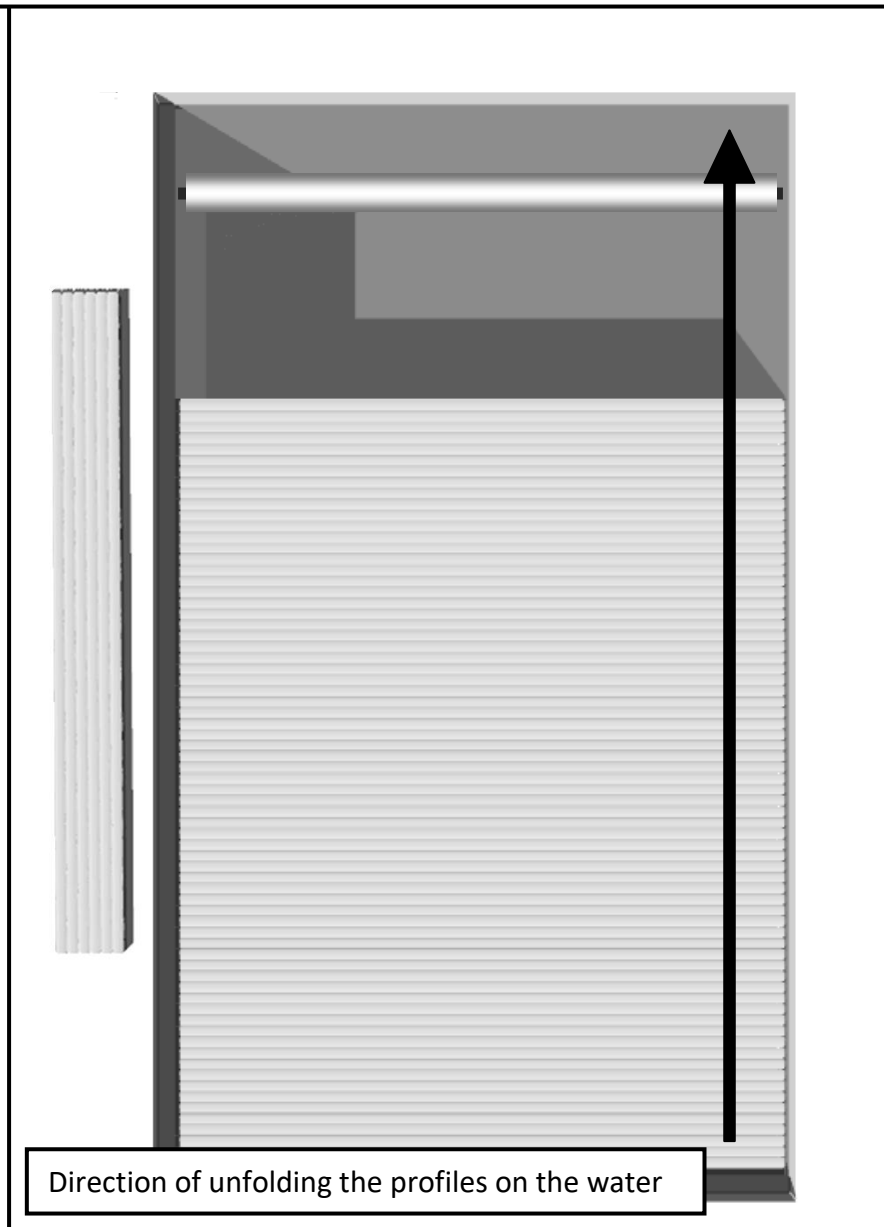
Put the ladder on the flanges and then hang the plates one by one on the previously installed special holders.



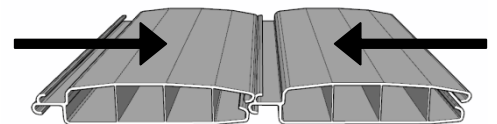
Installation of profiles



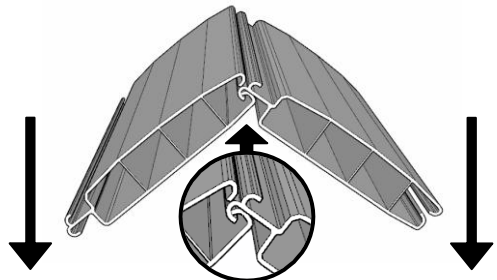
Installation of the profiles should be performed by placing them successively on the water and folding them from the end of the pool towards the shaft (figure below).



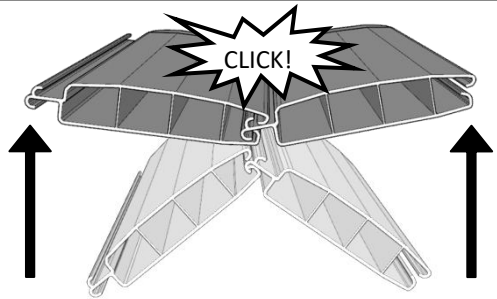
Step 1. Put two profiles together.



Step 2. Slide the sash into the groove at the right angle.



Step 3. Bend the panels in the opposite direction until the second sash clicks into place.



! The profiles with the guiding plate are to be wound last on the shaft and the first to go down into the water in order to direct the roller cover. The profiles with the plates are included in the package number 1.



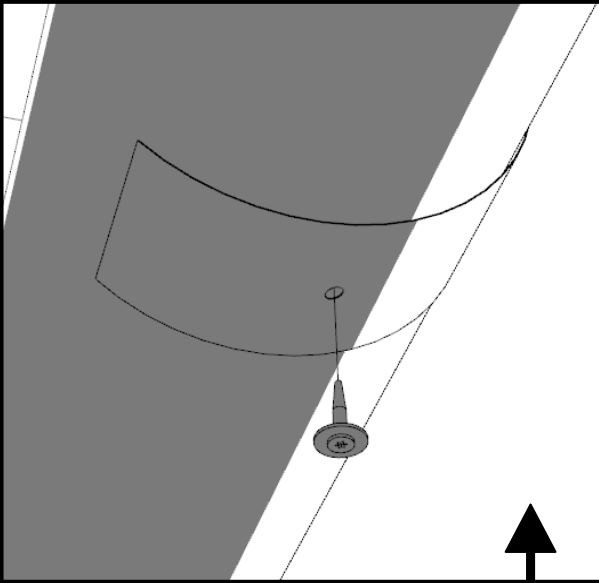
Detailed motor connection diagram and all information on this subject can be found in a **separate manual**.

Installation of belts for the winder



IMPORTANT INFORMATION! Before installing the belts to the winder, first start the engine in the **unwinding mode** and wait for the end of its operation. **Assembly must be done during the completed unwinding cycle.** After completing the installation of the belts, restart the engine, this time in **winding mode**. Only after performing these actions, you can proceed to the adjustment of the motor limit switches.

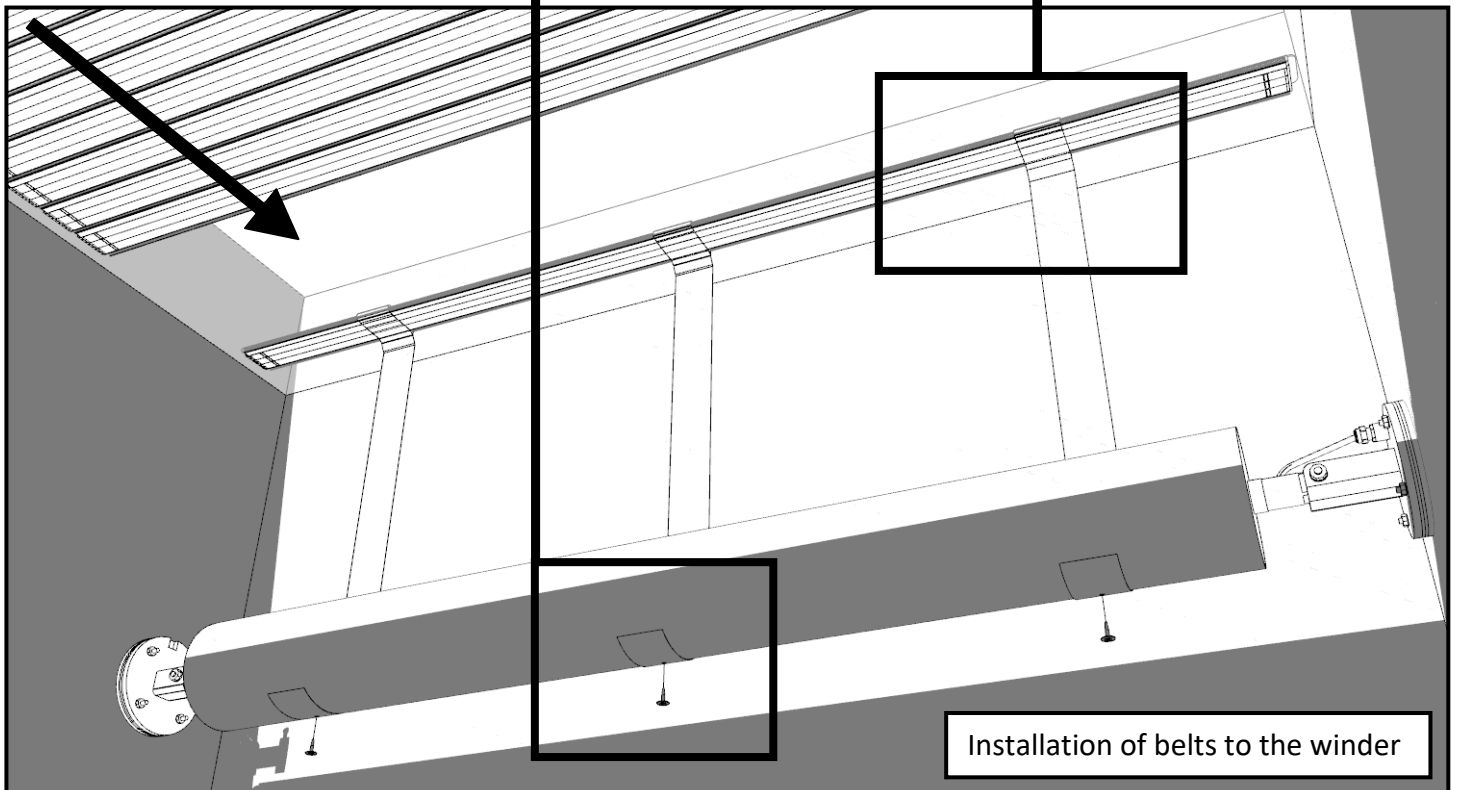
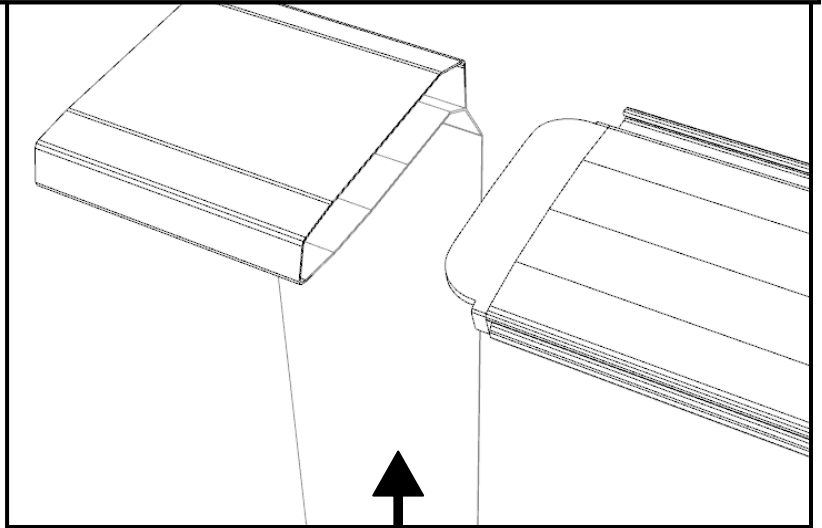
Step 1. Screw the belts to the shaft with screws. The number of lanes varies depending on the width of the pool.



Step 2. Slide the profile into the eyes of the belts.



The profile to be inserted into the eyelets as well as a separate profile connecting with the rest of the roller cover are included in the **package with num.1.**

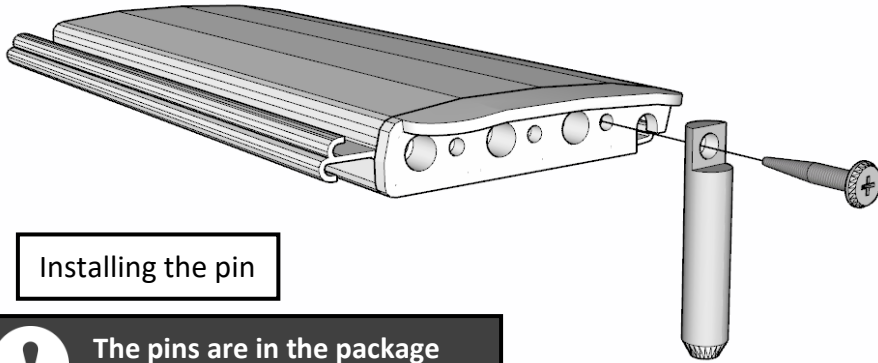


Step 3. Attach the remaining profiles to the strip profile.

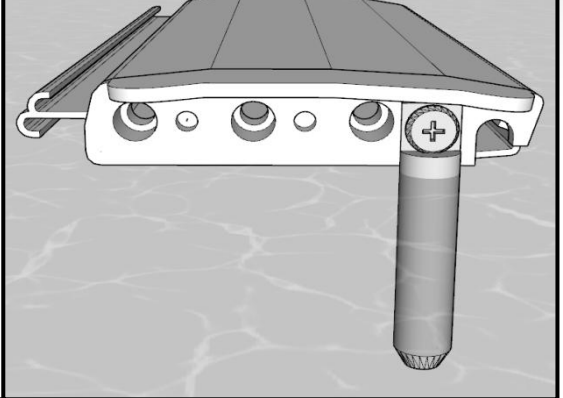
Mounting the pin (limiter) to the overflow gutter

* applies to the overflow pool

The pin of the overflow gutter should be screwed to the plug of the last or penultimate profile (the first or second profile descending from the shaft into the water) and then every 3 meters, on both sides of it in the place marked in the figures below. The number of pairs of pins will vary depending on the length of the pool.



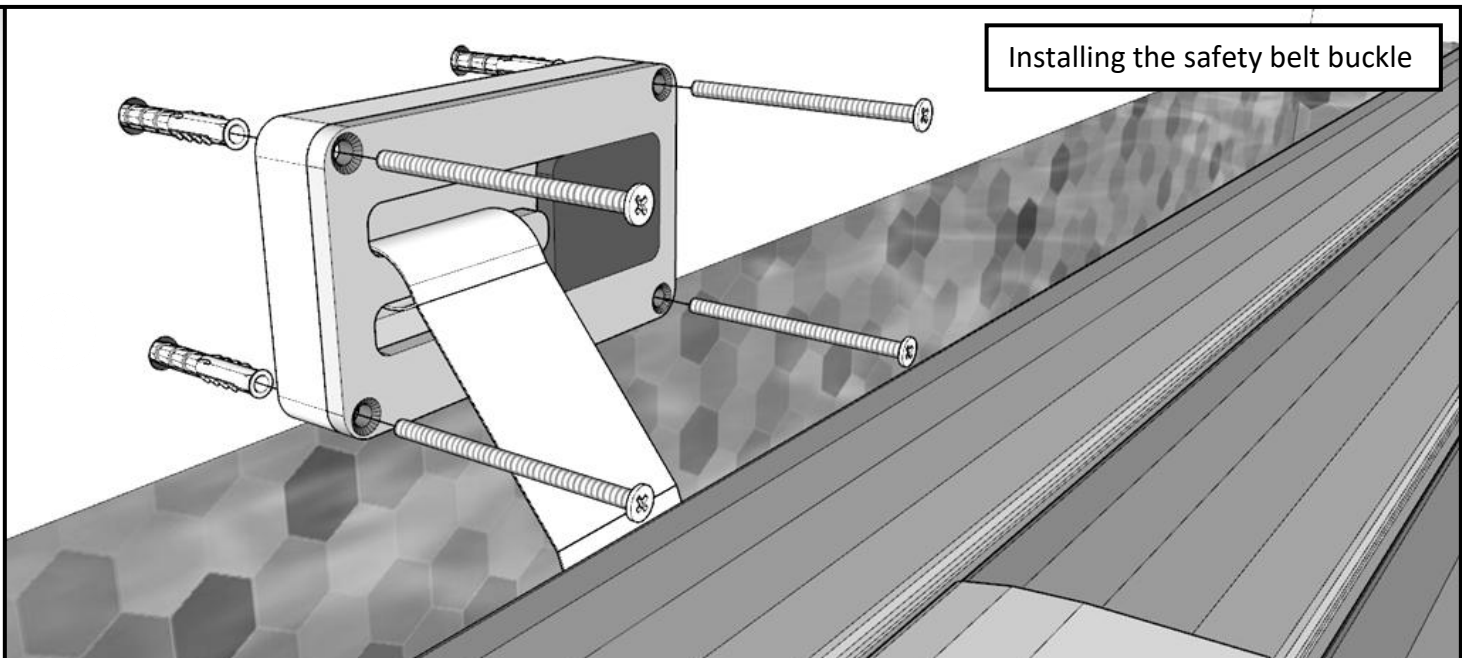
Installing the pin



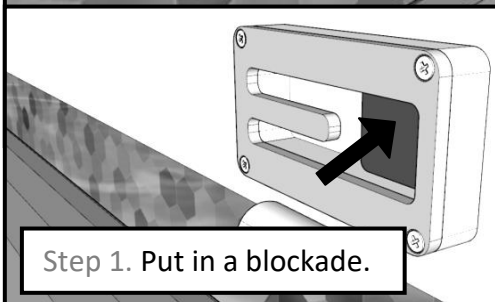
! The pins are in the package with the number 1.

Installation of safety belts

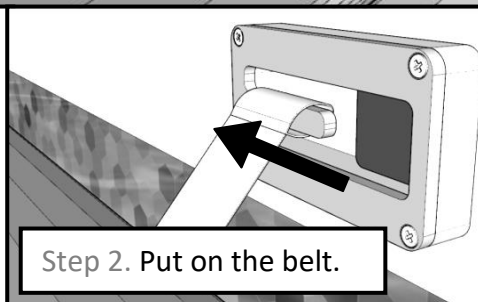
Buckles for seat belts should be placed on the inside of the shorter side of the pool in the vicinity of the belts mounted on the penultimate roller cover profiles. Installation with dowels $\varnothing 6$ in holes drilled with a drill $\varnothing 6$, mounted with screws $\varnothing 4$. Figure below.



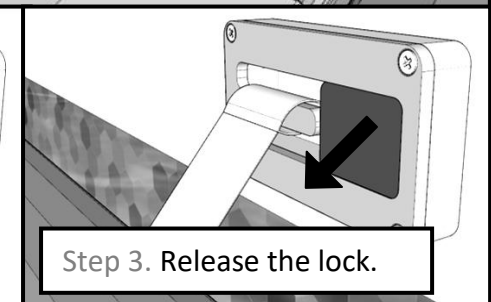
Installing the safety belt buckle



Step 1. Put in a blockade.



Step 2. Put on the belt.

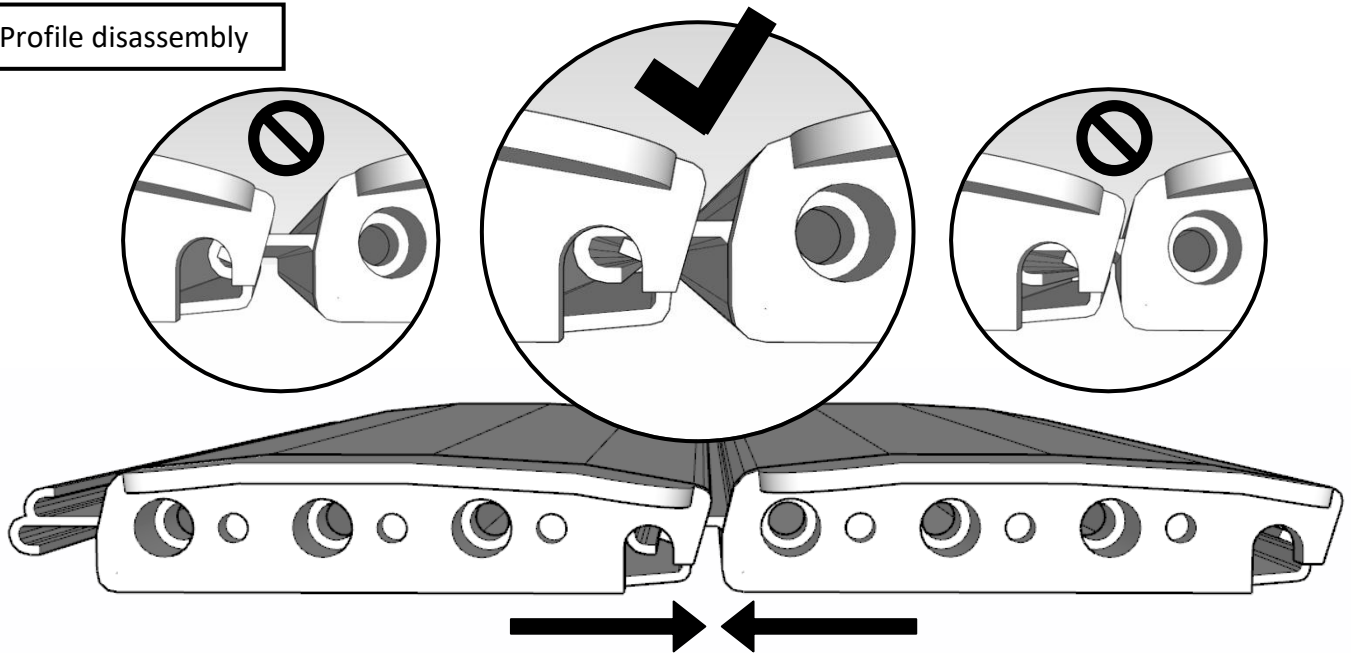


Step 3. Release the lock.

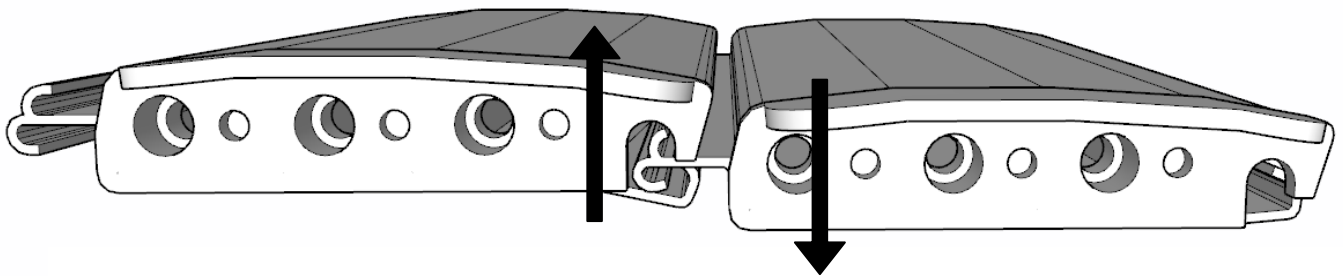
Disassembly of profiles

Step 1. Push the two profiles together so that the entire bottom wing is in the slot.

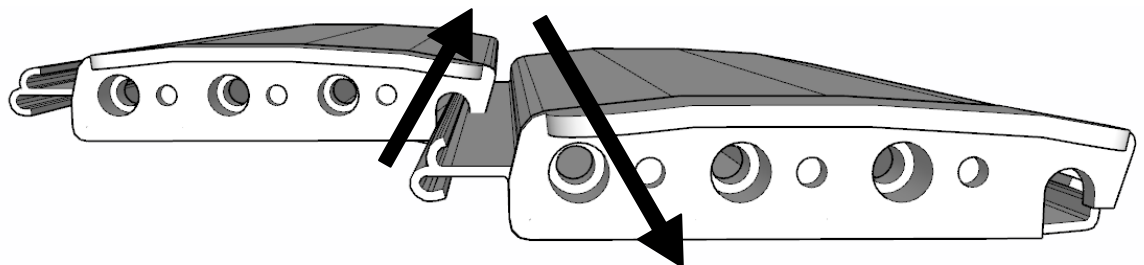
Profile disassembly



Step 2. Lift one profile up and carefully bend the other down. Both wings should be visible in the slot so that they can be easily pulled out - not blocked by the stopper.



Step 3. Eject the profile in the desired direction.



Hazards and responsible use

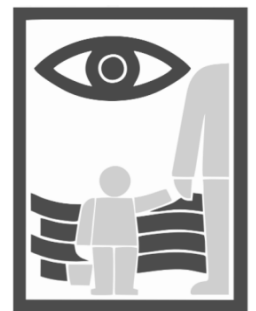
The risk of hazards during the use of the pool cover has been minimized through a series of tests. **Nevertheless, you should always exercise extreme caution near the swimming pool!**

The swimming pool can be a serious hazard to children. A responsible adult and active supervision are therefore essential.

The swimming pool cover guarantees safety only if the cover is closed, well secured and installed in accordance with these instructions. **A cover is not a substitute for the mindfulness of parents or responsible persons.** The cover is a decisive factor for the protection of young children.

It is forbidden to enter or jump on the cover on purpose. Children must not be allowed to play with the cover, lift it or put their arms or legs into the technical gaps.

We recommend that you familiarize yourself with the rules of first aid.



Installation and safety instructions

Installation of the cover and transport should be performed by two responsible adults. During assembly, there must be no third persons or any object that could cause mechanical damage in the pool.

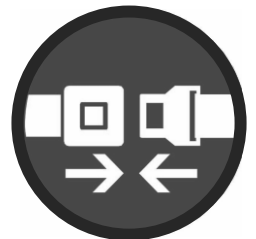
The pool cover has safety belts, which, in the event of an unfortunate accident, increase the chance of keeping the child and adult on the surface of the pool, significantly reducing the risk of drowning. Safety belts should be fastened immediately after closing the cover.

Attention! It is essential to unfasten your safety belts before opening the pool. Failure to do so may break the belts or even destroy the motor (in the case of automatic roller cover).

In order to open or close the pool, the roller cover is turned on with a key switch or with a remote control (applies to automatic roller cover). Make sure the safety belts are unfastened. The limit switch set during assembly will switch off the roller cover when it reaches its end position.

For the proper functioning of the roller cover, it is necessary to ensure an appropriate level of water in the pool, so that the roller cover has a free flow without contact with any obstacles.

Attention! Before starting the engine for the first time after winter or a period in which the controller may have become wet, the controller should be kept at room temperature for several hours. Drying the components before connecting to electricity will avoid the risk of a short circuit and failure of the controller.



Cover operation, water filling and draining

When refilling water in the pool, the lamellas of the cover should be directed into the technical slot so that they can freely flow onto the surface (applies to the underwater cover). Several slats should be on the surface. Unfold the roller cover as the water table rises. We repeat the activities in the same way each time the water is refilled. When draining the water from the pool, the roller cover must be rolled up beforehand.

The key switch must be installed in a place where it is possible to see the entire pool (applies to automatic roller cover). **The person controlling the cover is responsible for ensuring that nobody and nothing is left in the pool when the roller cover is unfolded and closed.**



Cleaning tips

The roller cover should be cleaned manually (e.g. with a cloth) or with a high-pressure cleaner once every 1-2 weeks in order to wash away organic and stone deposits. You can use a special agent designed to clean PVC. Do not use caustic, foaming or dissolving agents or abrasive sponges. Do not step on the cover while cleaning.



Tips for malfunctions

Irregularities in the functioning of the shutter cover be reported to the installer of the cover in order to obtain a proper diagnosis. In case of improper setting of the roller cover in its end positions, limit switches should be adjusted. In the event of a failure of the pool roller cover, jamming, blocking, or changes to the final settings, limit switches, please contact the roller cover installer.



Warranty and conditions

The warranty period is 2 years for all parts.

Only the invoice is a valid guarantee document. The warranty covers all costs of replacing materials, components or financial compensation, if the damage results from manufacturing oversight or material defects and is not the result of improper use or negligence on the part of the customer.

If the claim is checked and approved by the seller, only the parts relating to the claim will be replaced or a financial compensation will be incurred.

A written complaint must be made within 7 days of noticing the irregularity.

Assembly, disassembly and transport costs are not covered by the warranty.

The change in color tone cannot be regarded as a defect as it is inherent in the product.

