Pahlén®
Premium pool equipment



User manual

Skimmer Infinity

Skimmer Infinity

ENGLISH

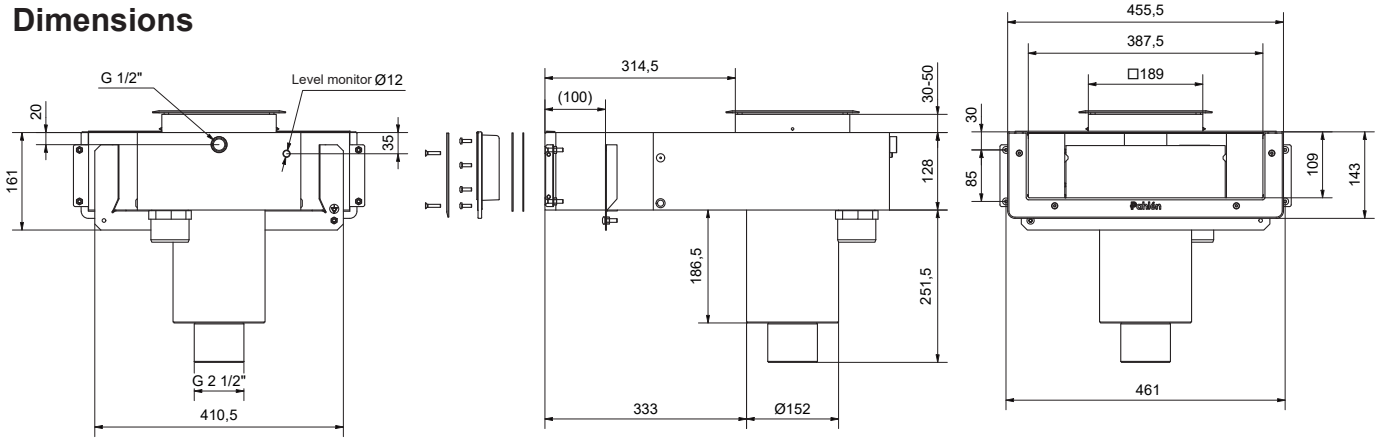
It is important that you read this manual carefully, to ensure the function and service life of the equipment. Pahlén AB is not responsible for the product warranty or any damage caused by incorrect installation, incorrect use or incorrect maintenance.

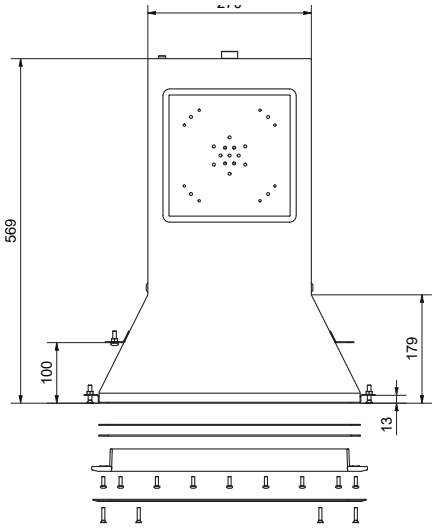
Product description

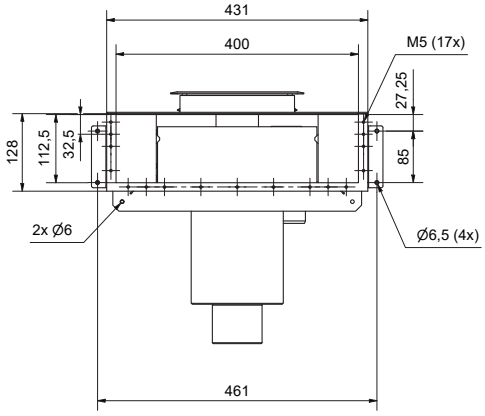
The function of the skimmer in a swimming pool is to act as an outlet for the pool's water and to remove debris from the surface of the water.
This skimmer has glands for connecting overflow, water filling, as well as level monitor (purchased separately).

- The flap gate regulates the speed of the surface water and prevents the outlet from getting blocked by any large objects.
- The internal screen basket captures coarse material (which would otherwise be transported to the pool's circulation pump).
- The enclosed Skimvac plate is used for the bottom suction hose, when manually cleaning the pool.
- The skimmer's plastic collar can be easily to cut to height in order to fit the floor covering surrounding the pool.
- **Skimmer Infinity must be equipped with a level monitor and automatic water filling.**
  Pahlén's level monitor, art. no. 11251 (sold separately), is designed for this skimmer (see instruction MA55-49 for the level monitor).

Dimensions







The Skimmer Infinity allows for a higher water level in the pool than is the case with traditional skimmers. This places stricter demands on control of the water level. There is a risk that the pump will run dry, if the water level drops too much.

Operation

Do not dose with concentrated chemicals next to stainless steel parts, otherwise damage may occur if there is no circulation in the pool.
Empty the screen basket regularly.

Recommended values for the water quality:

Total chlorine concentration:	max 3.5 mg/litre (ppm)*
Chloride (salt) concentration:	max. 250 mg/litre
pH value:	7.2–7.6
Alkalinity:	60 –120 mg/litre (ppm)
Calcium hardness:	100 – 300 mg/litre (ppm)
Iron:	max 0.1 mg/l *
Copper:	max 0.2 mg/l *
Manganese:	max 0.05 mg/l *
Phosphorus:	max 0.01 mg/l *
Nitrate:	max 50 mg/l*

* In accordance with EN 16713-3

The product warranty does not apply outside these values.

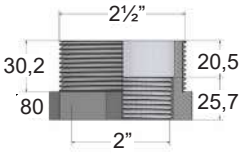
Winter storage

When closing down the pool for the winter, lower the water level to below the skimmer and lift out the screen basket.

General instruction for installation

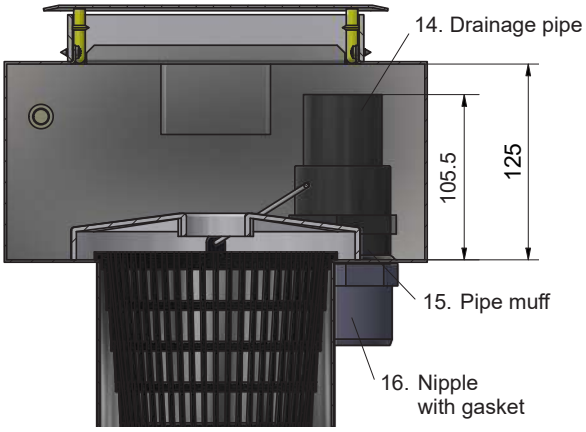
Place the skimmer in the pool structure in accordance with your pool supplier's instructions. Skimmers are normally placed with inlets on the opposite side. During installation, stainless steel tools with clean contact surfaces must be used.
Store the products in their original packaging until installation, to prevent scratches and stains. Take care to avoid scratching the product during installation.

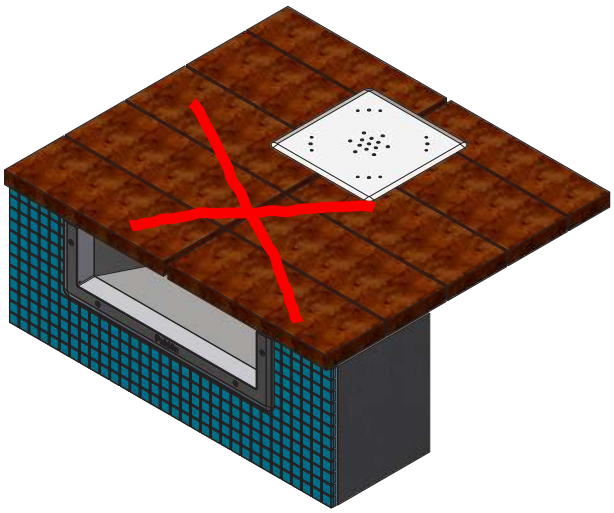
The supplied bushing can be used when there is a need to reduce the 2½" connection to 2".

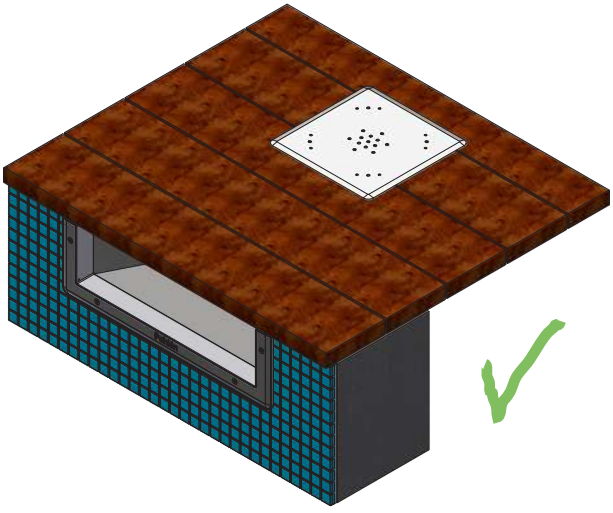


Drainage

1. The drainage pipe is glued in the pipe muff with suitable PVC adhesive.
2. Fit the pipe and pipe muff in the skimmer using the enclosed gasket and nipple.
3. Connect pipe fittings to the overflow.







NOTE!

The edge and ground cover must NOT have joints where the skimmer is placed.
Decking should have support on the sides of the skimmer. The decking should be at least 28 mm thick.
The paving stones should be at least 30 mm thick.
Porcelain ceramics should be at least 20 mm thick.

Installation in timber pool frame - lined with liner

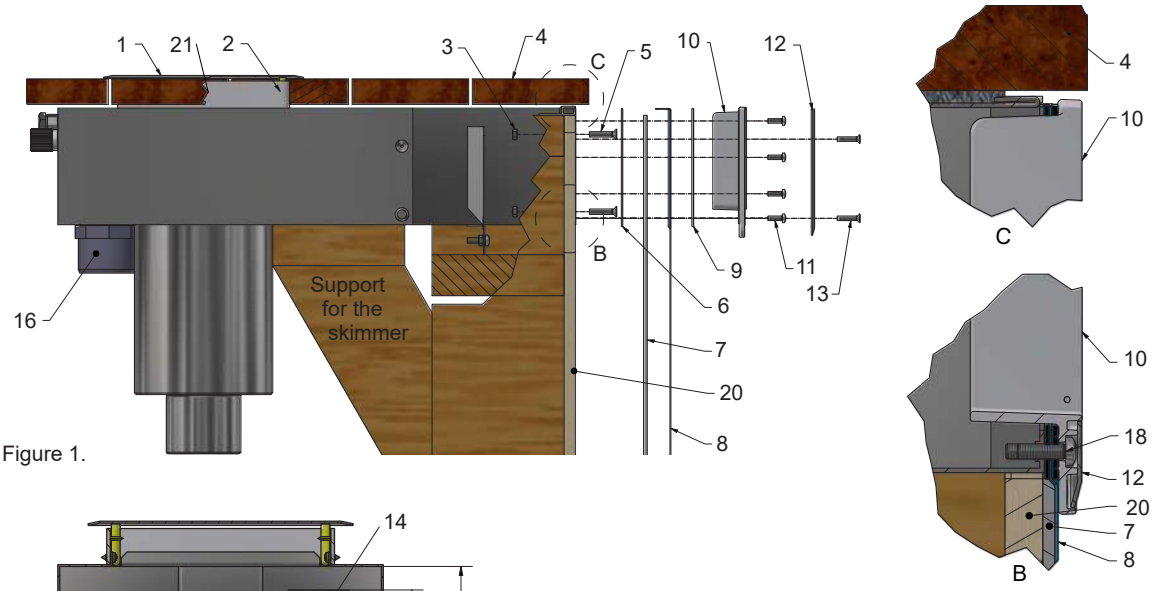


Figure 1.

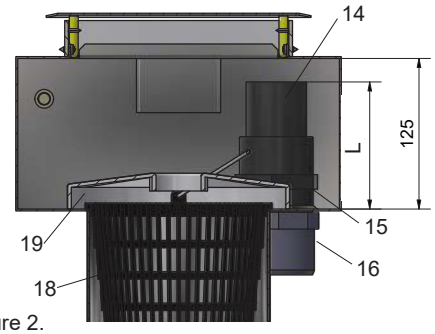


Figure 2.

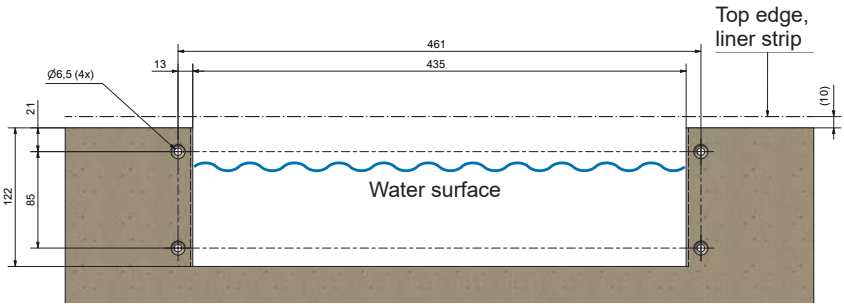


Figure 3.

Install as follows:

1. Make a hole in the frame for the skimmer, dimensions and location as shown in Fig. 3.
2. Install and secure the skimmer in the pool frame as shown. The water surface must be 30 – 40 mm below the top edge of the skimmer. The skimmer's flange must be level with the finished pool wall. To prevent subsidence, the skimmer must be secured with, for example, pressure-impregnated joists in the pool frame.
3. Connect pipe coupling to the pool circulation using a suitable thread sealant.
4. The drainage pipe (14) is glued to the pipe muff (15) using a suitable PVC adhesive and fitted in the skimmer with the enclosed gasket and nipple (16). Connect pipe fittings to the overflow.
5. Install level monitor according to instruction MA55-49.
6. Install the flap gate (17) and check that it is correctly located and can move.
7. Attach the self-adhesive gasket (7) to the front edge of the skimmer (facing the pool).
8. Put in the liner.
9. Fill the pool with enough water for the water surface to reach 5 cm below the skimmer. Turn off the water.
10. Fit the outer gasket (9) and the mounting frame (10) - fasten first, then tighten crosswise.
11. Carefully cut the liner cleanly along the inside of the mounting frame (10).
12. Now, continue to fill the pool with water, until the water surface reaches the centre of the skimmer's opening.
13. Fit the front frame (12).
14. Install/adjust the collar:

    If necessary, cut the plastic collar (2) to height, so it matches the surface coating surrounding the pool.
    Apply a suitable sealing compound to the underside of the collar against the skimmer.
    Press the collar down against the skimmer. Secure the collar in place with the enclosed screws (21).
15. Press the cover (1) into the collar.

1. Lid (incl. silicone sleeves)
2. Collar
3. Nut M6 (4x)
4. Edge frame
5. Countersunk screw M6x30 (4x)
6. Self-adhesive gasket 1.5 mm
7. Wall mat
8. Liner
9. Gasket 2 mm
10. Mounting frame
11. Screw M5x16 (13x)
12. Front
13. Countersunk screw M5x25 (6x)
14. PVC drainage pipe
15. Pipe muff
16. Nipple incl. gasket
17. Flap gate
18. Screen basket
19. Skimvac plate
20. Plywood
21. Screw (2x)

Installation in a pool frame made from masonry, insulating blocks, concrete, etc., lined with pool liner

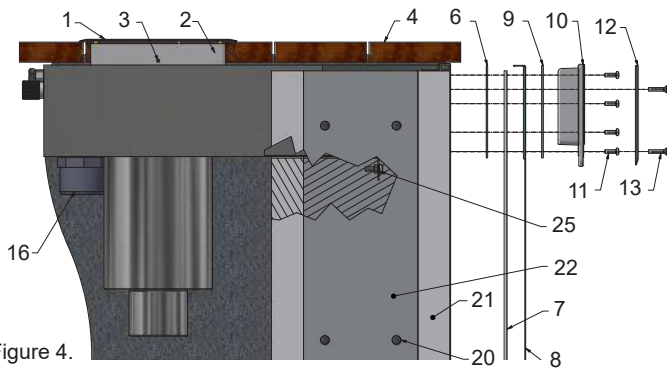


Figure 4.

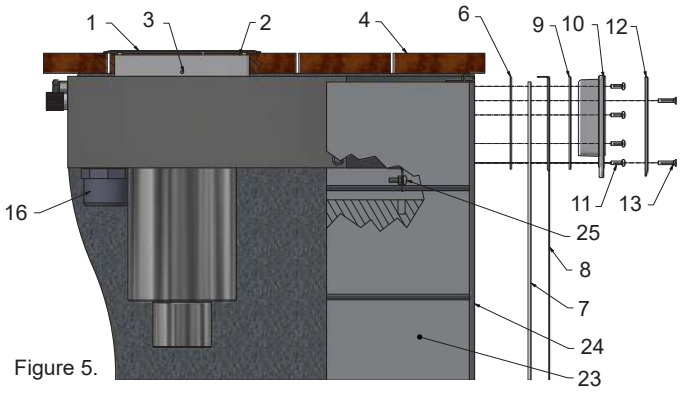


Figure 5.

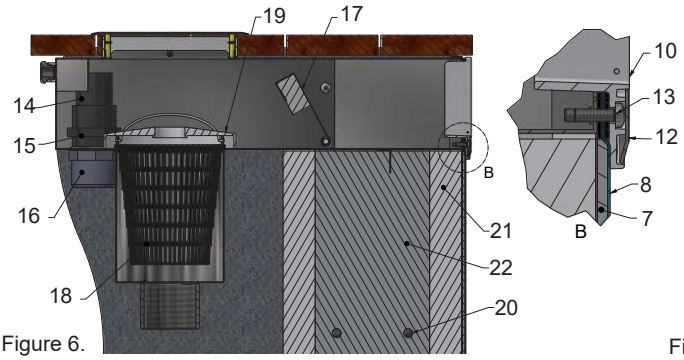


Figure 6.

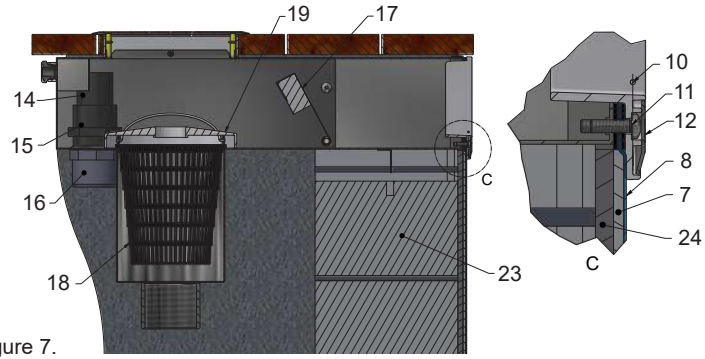


Figure 7.

Install as follows:

NOTE! When pouring concrete/reinforcing the frame, the rebar must not be any closer to stainless steel material than 50 mm.

1. Make a hole for the skimmer in the frame, dimensions and location as shown in Fig. 3, 4, 5, 6 and 7.
   Install and secure the skimmer in the frame (see figures above).
   The water surface must be 30 – 40 mm below the top edge of the skimmer.
2. The skimmer's flange must be level with the finished pool wall.
3. Install level monitor according to instruction MA55-49.
4. The product is provided with an equipotential bonding point (25). See IEC 60364-7-702 and current national building regulations with respect to equipotential bonding.
   Please note that improper equipotential bonding can cause galvanic corrosion.
5. Connect pipe coupling to the pool circulation using a suitable thread sealant.
6. The drainage pipe (14) is glued to the pipe muff (15) using a suitable PVC adhesive and fitted in the skimmer with the enclosed gasket and nipple (16). Connect pipe fittings to the overflow.
7. Mask the skimmer's exposed flange and openings before pouring concrete, to prevent concrete splashes.
8. Attach the self-adhesive gasket (6) to the skimmer (after pouring).
9. Install the flap gate (17) and check that it is correctly located and can move.
10. Place the liner in the pool.
11. Fill the pool with enough water for the water surface to reach 5 cm below the skimmer. Turn off the water.
12. Fit the outer gasket (9) and the mounting frame (10) - fasten first, then tighten crosswise.
13. Carefully cut the liner cleanly along the inside of the mounting frame (10). Now, continue to fill the pool with water, until the water surface reaches the centre of the skimmer's opening.
14. Fit the front frame (12).
15. Install/adjust the collar:
    If necessary, cut the plastic collar (2) to height, so it matches the surface coating surrounding the pool. Apply a suitable sealing compound to the underside of the collar against the skimmer. Press the collar down against the skimmer. Secure the collar in place with the enclosed screws (3).
16. Press the cover (1) into the collar.

1. Lid (incl. silicone sleeves)
2. Collar
3. Screw
4. Edge frame
5. -
6. Self-adhesive gasket 1.5 mm
7. Wall mat
8. Liner
9. Gasket 2 mm
10. Mounting frame
11. Screw M5x16 (13x)
12. Front
13. Countersunk screw M5x25 (6x)
14. PVC drainage pipe
15. Pipe muff
16. Nipple and gasket
17. Flap gate
18. Screen basket
19. Skimvac plate
20. Rebar
21. Insulating block
22. Concrete
23. Masonry (LECA block)
24. Plaster
25. Equipotential bonding point

Installation in a pool frame made from concrete, lined with tiles/mosaic

Consult your supplier of concrete/surface coating about any waterproofing and application method. Pahlén also sells casting plugs to facilitate embedding (art. no. 822625), see instruction MA80-15.

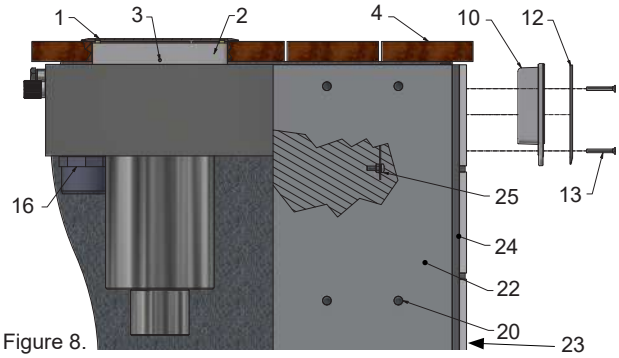


Figure 8.

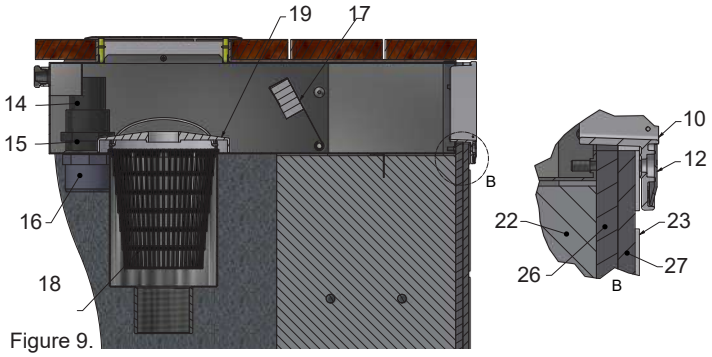


Figure 9.

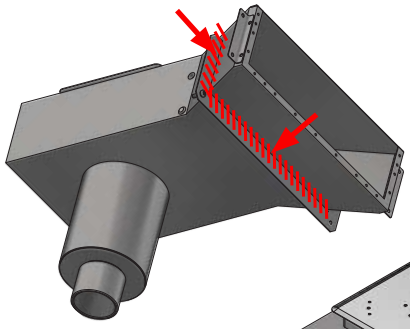


Figure 10.

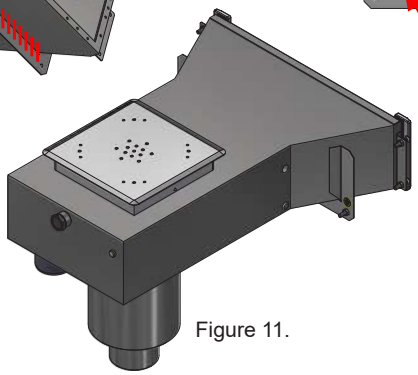


Figure 11.

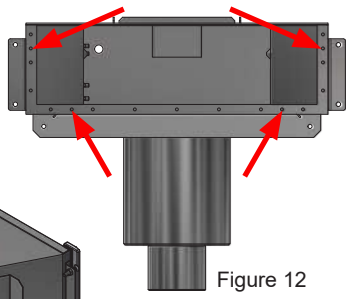


Figure 12

1. Lid (incl. silicone sleeves)
2. Collar
3. Screw
4. Edge frame
10. Mounting frame
12. Front
13. Countersunk screw M5x40 (6x)
14. PVC drainage pipe
15. Pipe muff
16. Nipple and gasket
17. Flap gate
18. Screen basket
19. Skimvac plate
20. Rebar
22. Concrete
23. Tile/mosaic
24. Plaster
25. Equipotential bonding point
26. Tile fix
27. Tile grout

Install as follows:

NOTE! When pouring concrete/reinforcing the frame, rebar must NOT be any closer than 50 mm to any stainless material.

1. Make a hole for the skimmer in the frame, dimensions and location as shown in Fig. 3, 8 and 9.
2. Apply a suitable sealing compound in the joint between the embedding flange and the skimmer housing (see Fig. 10). When applying the sealant, it is important that the joint is sealed to prevent any water from penetrating the joint. Refer to the sealant's instructions for preparation, application and hardening.
3. Fix the skimmer in the formwork, so the flange is level with the concrete wall.
4. The product is provided with an equipotential bonding point. See IEC 60364-7-702 and current national building regulations with respect to equipotential bonding. Please note that improper equipotential bonding can cause galvanic corrosion.
5. Before pouring concrete; mask the skimmer's exposed flange and openings to prevent unsightly concrete splashes. The openings in the back edge of the skimmer for level monitor, overflow and filling can be sealed using the enclosed plugs, see Figure 11.
6. Cast the pool frame.
7. Install wall cladding (fix, tile, mosaic, etc.). Make sure that the mounting holes (as shown in Figure 12) for the mounting frame are free, so the mounting frame can be fitted later.
8. Install the flap gate (17) and check that it is correctly located and can move.
9. Fit the mounting frame (10) and front (12) using the enclosed screws (4 M5x40), see Figure 8.
10. Connect the pipe coupling to the pool circulation and seal using a suitable thread sealant.
11. Install level monitor according to instruction MA55-49.
12. The drainage pipe (14) is glued to the pipe muff (15) using a suitable PVC adhesive and fitted in the skimmer with the enclosed gasket and nipple (16). Connect pipe fittings to the overflow.
13. Install/adjust the collar:
    If necessary, cut the plastic collar (2) to height, so it matches the surface coating surrounding the pool.
    Apply a suitable sealing compound to the underside of the collar against the skimmer.
    Press the collar down against the skimmer. Secure the collar in place with the enclosed screws (3).
14. Press the cover (1) into the collar.