Installation of HORIZONT and HORIZONT HIGH pool enclosures
## PARTS LIST

### Parts for rail installation:

<table>
<thead>
<tr>
<th></th>
<th>Rail screw 6 x 60</th>
<th>Plastic anchor 10 x 50</th>
<th>Rail connector</th>
<th>Arrest wedge [R-L]</th>
<th>Pop rivet 4 x 12</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Image 1" /></td>
<td><img src="#" alt="Image 2" /></td>
<td><img src="#" alt="Image 3" /></td>
<td><img src="#" alt="Image 4" /></td>
<td><img src="#" alt="Image 5" /></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Release plate [R-L]</th>
<th>M6 x 20 Screw</th>
<th>Stopper</th>
<th>Rail end cap [R-L]</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Image 6" /></td>
<td><img src="#" alt="Image 7" /></td>
<td><img src="#" alt="Image 8" /></td>
<td><img src="#" alt="Image 9" /></td>
<td></td>
</tr>
</tbody>
</table>

### Parts for the side without rails:

<table>
<thead>
<tr>
<th></th>
<th>H-profile end cap</th>
<th>4,8 x 40 flat head screw</th>
<th>Manual ground fixing</th>
<th>Manual ground fixing - lockable</th>
<th>Metal anchor</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Image 10" /></td>
<td><img src="#" alt="Image 11" /></td>
<td><img src="#" alt="Image 12" /></td>
<td><img src="#" alt="Image 13" /></td>
<td><img src="#" alt="Image 14" /></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Concrete glue</th>
<th>Fixing plate for wooden deck</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Image 15" /></td>
<td><img src="#" alt="Image 16" /></td>
<td></td>
</tr>
</tbody>
</table>

### Parts for end-wall installation:

<table>
<thead>
<tr>
<th></th>
<th>Solid block fixing</th>
<th>M6 x 16 screw</th>
<th>4,8 X 60 flat head screw</th>
<th>4,8 X 50 turned head screw</th>
<th>4,8 X 80 flat head screw</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Image 17" /></td>
<td><img src="#" alt="Image 18" /></td>
<td><img src="#" alt="Image 19" /></td>
<td><img src="#" alt="Image 20" /></td>
<td><img src="#" alt="Image 21" /></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Outside rubber</th>
<th>Mounting template</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Image 22" /></td>
<td><img src="#" alt="Image 22" /></td>
<td></td>
</tr>
</tbody>
</table>
Installation manual for HORIZONT and HORIZONT HIGH pool enclosures

General information about pool enclosures

Before starting the detailed description of the installation process, we would like to provide information about pool enclosures in general.

1. AQUACOMET pool enclosures are delivered in pre-assembled, manually movable structural elements. This means that the installation on site only consists of rail installation, sliding the segments onto the rails, fixing the plastic longitudinal positioning elements and installing the end-walls. During installation, please always take the technical rationality and practicality into consideration. Check the functions of the structure at every phase, to allow the correction of any mistakes as soon as possible. During the manufacturing process, we simulate the final state, adjust the functions and finally test the enclosures.

2. AQUACOMET pool enclosures are manufactured according to ISO 9001/2000 standard, that among others, prescribes the use of constantly tested and calibrated measuring tools. **Important:** the installation of pool enclosures must be carried out with good-quality, tested tools that meet the requirements of manufacturing precision.

3. Before starting the assembly please check that the pavement provides a proper foundation for the rails. It must be suitable for the reliable installation of height differences more than 0,5cm within 1m are not acceptable. The surface must be horizontal, with a maximum a pool enclosure. The receiving surface must fulfill three requirements: It must be even, waviness or allowance of 2cm within 1m. The pavement should be sufficiently solid and minimum 10cm deep drillable and anchorable.

All structural elements with individual functions - doors, end-wall openings, door locks and safety equipment, segment locks, sealings, profile end caps, handles - that are not covered in the manual are delivered ready mounted and working. The small parts needed for installation – screws, anchors, rivets, structural plastic elements, keys – can be found in a box that comes with the enclosure. Along with a parts list, a drawing with measurements necessary for installation and with this installation manual.

Pool enclosures are manufactured using AW 6060 T6 quality custom made aluminium profiles. The surface treatment can be anodized or powder coated (any RAL colors). Fasteners and other metal sheet components are made of A2 quality stainless steel. Profile closing caps, handles and other plastic parts are made of polyamide (PE). The glazing material is polycarbonate and the rubber profiles used for fastening the panels are EPDM. The rubber seals between the segments and groove covers are silicone rubber.
I. Rail installation

1.1 Measure the width of the pool at its front and back.

1.2. Deduct the width of the pool (front: \( W_F \), back: \( W_B \)) from the outside width of rails (\( R_O \)) and halve the result to get the distance between the pool edge and the outside of the rails (front: \( D_F \), back \( D_B \)). Mark the positions with a line. (Fig. 1.)

1.3 Connect the points on both sides with a string and mark the positions of the rails’ outer edges.

\[
\begin{align*}
W_F &= \text{Width of the outer pool edge at the front} \\
W_B &= \text{Width of the outer pool edge at the back} \\
D_F &= \text{Distance between the outer edge of the pool and the outer edge of the rails at the front} \\
D_B &= \text{Distance between the outer edge of the pool and outer edge of the rails at the back} \\
R_O &= \text{Rail's outer width} \\
K &= \text{Diagonals} \\
L &= \text{Rail length}
\end{align*}
\]
1.4. Join the rail sections with rail connectors (Fig. 1/1, part no.3.). Push the pins into the rail and stabilize them lightly with hammer (Fig. 1/2). Then push it together with the next rail piece without gap.

1.5. Place the rails to both sides of the pool and fit their outer edges to the marked line.

1.6. Adjust the rail positions with the help of diagonals (K). Both diagonals must be equal. (Fig.1)

1.7. Adjust the rails lengthwise by sliding them to the correct positions. Please mind that the diagonals must stay correct!

1.8. Starting on one side of the pool, fix the set rails through the pre-drilled holes with provided anchors (Fig. 1/4, part no.2) and screws (Fig. 1/5, part no.1).

1.9. Before fixing the rails permanently adjust the rails horizontally too (with chocks, string or spirit level). To ensure easy gliding the whole running surface must be at the same level.
II. Sliding the segments onto rails and checking wind protection

2.1 Correct positioning and arrangement of segments

2.2 Lay the first segment down to the front of the rails on a plastic foam underlay.

2.3 Lift up the segment at the rail side and remove the underlays from there. Pull the segment carefully toward the rails and then onto the rails. Please mind that the underlay at the back should stay under the segment!

2.4 Slide the segment onto the rails and check the storm hooks by lifting. It must not be possible to lift the segment off the rails!

2.5 Check if the segment slides the full length of the rail without friction. If there is friction anywhere, please adjust the storm hooks vertically with an Allen key (Fig. 2/1).

2.6 Repeat steps 2.2-2.5 with all the segments in order.
III. Installing the lengthwise positioning system (arrest system)

The arrest system only works if the segments are pushed from the largest towards the smallest segment! Moving the segments in the opposite direction one by one is not possible! After opening all segments, they can be pushed towards the front, but only together as a package.

Description of the positioning system

The lengthwise positioning of the first segment is provided by so-called hidden arrest (Fig. 3/1). All the rest of the segments are equipped with rocker lever arrest (Fig. 3/2). The complete system is called „Semi-intelligent“ arrest system.

![Diagram](image)

3.1. Install the release plates (Fig. 3/3, part no.6) of the rocker lever arrest on the segments in correct position (screws no.7). The smallest segment does not have any release plates!

![Diagram](image)

3.2. Move the segment to be set, starting with the largest segment, into the required lengthwise position.

![Diagram](image)

3.3. Set the hidden arrest in closed position and lay the arrest wedge underneath (Fig.3/4-3/5, part no.4). Mark the drill-holes on the rails.
3.4. Drill the rails at the marked spots and fix the arrest wedges with the provided pop rivets. Repeat the whole procedure on the other side. The arrest wedges must be installed to the same lengthwise positions (in-line) on the opposite side too.

3.5. Check if the arrest pin sits deep enough in the groove of the arrest wedge in its closed position. If the closing does not function properly, please adjust the height of the arrest pin!

3.6. The fixed arrest wedge of the first segment serves as positioning element for the second segment as well (Fig.3/6-3/7).

3.7. Slide the next segment under the already fixed one so that the rubber seal of the smaller segment closes to the arched profile of the bigger one. Ensure that the outer arched profiles of the segments are in the right positions. Please note! In case of deviation the overall length of the enclosure can differ at the end of the installation from the specified length on the drawing.

Repeat above step on all the other segments.

3.8. Thanks to the “semi-intelligent” positioning system, after opening the hidden arrest of the first segment manually the other segments open each other automatically and all the segments can be pushed to the back of the pool together.
3.9. After installing the lengthwise positioning elements install the safety bumpers (Part no.8) close to the rail ends (Fig.3/7-3/8). When installing the stoppers, it is important to make sure that the wind hooks get caught on them, preventing the segments from running off the rails.

3.10. Glue the plastic rail end-caps (Part no.9) into the rail profiles with silicone or any other kind of glue. (Fig.3/9)
IV. Horizont pool enclosure with rails on only one side

4.1. Positioning the swivel wheels

When sliding the segments into each other, push the swivel wheels into the guiding tracks on the H-profiles of the above (higher) segments. The swivel wheels must point towards the front of the enclosure (big segment).

4.2. Closing the swivel wheel guiding tracks

After linking all segments, close the guiding tracks with their end-caps (Part no.10).
4.3. Fixing the segments to the ground on the side without rails

After positioning the segments mark the drill-holes on the ground through the fixing tabs. If the enclosure is installed on a wooden deck, please use the special mounting plates (Part no.16.)

- The trested mounting plates can easily be fixed to the wooden deck with two flat head screws.
- Marking the drill-holes through the fixing tabs.

V. End-wall installation

5.1. Fastening the solid block fixings for the middle vertical profiles

The installation of the walls starts with fastening the solid block fixings (Part no.17.) with screws no.19.
5.2 Installation of the middle vertical profiles

After installing the solid blocks, push the vertical profiles on them and fix them with screws no.18.

5.3 Temporary fixation of the glazing panels

After removing the protecting foil place the panels into position and fix them temporarily with small, 15-20cm long rubber pieces (Part. no.22) two places along the arch and on the sides.
5.4. Installing the bottom horizontal profiles

Screw the bottom profile to the middle vertical profile from below with screws no.21. In case the wall is only equipped with 100mm rubber (no flap) and there is not enough space for tightening the screws, then the segment must be pulled off from the rails and lifted. The front (or back) of the segment must be supported with something temporarily at the H-profiles.

After fixing the end-wall profile to the middle vertical profile, screw it to the sides with the help of screws no.20.

5.5 Sealing the wall panels with rubber

Seal the polycarbonate panels with outside rubber (Part no.22.), minding that the corners must be cut in angle for aesthetic fitting.

After sealing the polycarbonate panels, carefully hammer the thin covers of the side vertical profiles into place with rubber or plastic hammer.
Storm protection

The pool enclosure should not be left unattended for longer periods of time in open position. In open state, the aerodynamic properties of the structure are different and it becomes significantly more vulnerable than in closed position.

Protection against snow pressure

In case of heavy snow, the enclosures must be cleaned immediately (max. 25cm) or a minimum temperature of 12°C must be maintained under the enclosure to ensure continuous melting of fallen snow.

Cleaning, care and maintenance

Pool enclosures do not require any special maintenance.

To clean the aluminium structure and the glazing material the most appropriate material is clean and warm water. At severe stain, a wet sponge and highly diluted household detergent can be used. Avoid using stronger lyes and household abrasives.

It is strictly forbidden to scour or rub the glazing!

Using dry sponge or other wipes is not allowed!