



A PLAYCORE Company

Waterslide Operation & Maintenance Guide



Overview

Aquaworx water slides are manufactured and distributed by Aquaworx Inc. We manufacture aquatic waterslides, play features, filtration, and interactive water playsets. Our plunge waterslides are designed to be installed in bodies of water with a minimum depth of 36". Installation in water depth less than 36" can cause harm or death to the user.

Building Codes and Standards

The installation of Aquaworx waterslides must follow ASTM F2376-21 and all local building codes and standards. Following all local building codes and standards is the sole responsibility of the installing contractor.

Installation and Assembly of Slides

Aquaworx manufactures several different types of slides that can be configured into multiple configurations. Every slide has different engineered plans and will be assembled accordingly. However, specific steps and installation procedures must be followed to ensure the safety and integrity of the slide. Aquaworx requires third installers to have a minimum of three previous commercial water slide installations to ensure proper installation. Improper assembly and installation of Aquaworx slides will void the warranty. The slide must be installed and tested before any rockwork, dirt, or concrete is installed around the slide. This step is critical to ensure a safe and problem-free installation.

Location Instructions

The location of the slide is the sole responsibility of the installing contractor. Any placement of the slide must be in accordance with a stamped set of plans from an engineer. This is critical so that the slide starts and stops from the proper points on the plans. Attachment

points and footers are also critical and must be done as the stamped engineer plans indicate. Please note that any construction drawings that are not 100% complete and are for bid only will not be an installation guideline. Only 100% stamped approved drawings from an Aquaworx-approved engineer will be approved for location and construction.

Slide Part Connection Assembly

All slide part assembly must follow specific steps in a specific order. Every Aquaworx slide is completely assembled from start to finish in our facility. The following steps must be done for proper installation. Installers must follow appropriate safety guidelines that are indicated on each product.

1. Each slide flange must be cleaned with acetone or a comparable solvent.
2. Prep each flange with SIKAp429 primer and allow it to dry for at least ten minutes (supplied by Aquaworx).
3. Caulk the face of the flange with SIKAFLEX SIK1AW (supplied by Aquaworx).
4. Bolt flanges together using the 3/8 (316SS hardware) provided by Aquaworx. Each flange can take up to 60 bolts and is predrilled.
5. Clean any excess caulk on both the inside and outside of the flange connection.

Saddle Connection

1. Each saddle must be connected to engineered specifications.

2. Strait parts of the slide must be level on the top from side to side using a 6' level.
3. The saddle must be attached level and below the washers on the bottom of the slide flange using (6) ½" x 2 ¼" 316SS bolts.
4. The saddles will be connected to a concrete footer or other specified structure using fasteners specified by the engineer in the set of construction plans.

Daily Waterslide Inspection

A daily inspection of the slide is essential to maintaining your investment and the safety of each rider. An inspection must be performed each day before the slide is operated. The following inspection must be performed every day.

1. Inspect the slide path to make sure there are no obstructions.
2. Look for chips, bubbles, or cracks in the gel coat.
3. Ensure there are no leaking joints.
4. Inspect for caulk that has worn or peeled away.
5. Ensure there are no loose or missing fasteners

If any of these items are noticed, they must be corrected and repaired before the slide can be opened.

Waterslide Gel Coat and Maintenance

All Aquaworx waterslides are made from gel coat and fiberglass. Therefore, they must be maintained just like any other fiberglass product.

Fiberglass is a common term for fiber-reinforced plastic, or FRP, which is a plastic material strengthened using a fiber cloth. To give the

fiberglass a smooth, shiny surface, gel coat is applied to the outer surface.

Gel coat is available in many colors and is fairly durable, but it can become dull or faded as it weathers. Sunlight and air combine to oxidize the gel coat surface, fading the surface and making it cloudy. To keep your gel coat looking shiny and new, clean the surface of dirt and grime and coat the surface with either [wax](#) or a [sealer](#). This process should be done on a quarterly basis.

Cleaning Faded or Oxidized Fiberglass

Cleaning faded, or dull fiberglass requires elbow grease and a product that will remove the oxidization, such as [Vertglas #1 Oxidation Remover](#). The application varies for different products, but in general, you need to rub the surface with the oxidation remover or polishing compound to remove the oxidized layer. You then let the product dry to a haze and buff it off to reveal the clean (but not necessarily shiny) surface (note: Vertglas #1 Oxidation Remover doesn't require this buffing step).

If your waterslide isn't shiny at this point, the clean gel coat surface is pitted and diffracting the light instead of reflecting it. By filling in the microscopic pits, you can restore the shine. To prove this, apply water to the surface and see if it becomes shiny. If so, you need to apply something that will fill in the pores and maintain the shine, such as [Vertglas #3 Color Restorer/Sealer](#).

To use Vertglas #1 Oxidation Remover, first wet the gel coat surface and apply the oxidation remover using a white Scotch-Brite pad or sponge. Rub the surface until you see color in the pad or sponge (indicating you've rubbed off all the oxidation and are now into the

colored gel coat) or until the surface no longer feels rough. At this point, you rinse off the surface and wash away the oxidation residue.

Waterslide Safety Plan

Hours of Operation: 10 AM – Dusk, while an attendant is present.

Attendant/Employee Responsibilities:

1. Start the filtration system at least three hours before operating the slide.
2. Before opening, walk the slide, steps, landing, flume, and platform. Ensure the slide, steps, landing, flume, and platform are clean and safe. Check for any signs of sharp or rough fiberglass surface or other deficiencies on the flume and tower. The slide will not be opened if any deficiencies are found.
3. Slide attendants will enforce all rules at all times.
4. If the attendant leaves the slide area, the slide will be turned off. Everyone must leave the slide area, and the gate will be closed and locked.
5. Attendant will keep riders 3 ft away from the slide surface until the previous rider exits the bottom of the flume and the area around the bottom of the slide is completely clear.
6. Riders will wait at the mid-stair landing or the lower unit until the next rider is cleared to enter the slide surface.
7. Slide will be closed during thunderstorms in the area.
8. At closing, the attendant will ensure that the filtration system will remain on for at least three hours.

Waterslide Rules

1. Users under 14 years of age must be accompanied by a parent or legal guardian.
2. Rides must be a minimum of 48" tall.
3. Riders must be 300 pounds or less.
4. Riders must be in good general health.
5. All persons with heart or back conditions shall not ride.
6. Pregnant women should not ride.
7. Riders must be seated and wait for the attendant approval to start down the slide.
8. Riders must be in the proper riding position, lying on their back, feet first, arms crossed or hands interlocked behind the head, and legs crossed at the ankles.
9. No standing.
10. Only one rider may go down the slide at a time—NO multiple or chain riding.
11. No life jackets, inner tubes, water wings, jewelry, cut-off jeans or tee shirts, or other "street clothes" are allowed. Proper swimwear is required.
12. No riders under the influence of alcohol or drugs are permitted.
13. Riders must exit the slide at the bottom quickly and leave the area at the bottom of the slide.