

# Water Slide Install Guide

## OWNERS MANUAL



### Overview

Aquaworx waterslides are manufactured and distributed by Aquaworx Inc. We are a manufacturer of 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 4'. Installation in water depth less than 4' and cause harm or death to the user. Slides with run out lanes are engineered to ensure proper length for safe operation.

### Building Codes and Standards

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

### Installation and Assembly of Slides

Aquaworx manufactures several different types of slides in multiple configurations. Each slide is engineered per project and will be assembled accordingly. Specific steps and installation procedures must be followed to ensure the safety and integrity of the slide. Improper assembly and installation of Aquaworx slides will void the warranty. The slide must be installed and tested before any rock work, dirt, or concrete are installed around the slide. This step is critical to ensure a safe and problem free install.

## **Location Instructions**

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 the slide starts and terminates from the proper points on the plans. Attachment points and footers also require site specific engineering. Please note that any construction drawings that are not 100% complete and are labeled "for bid only" should not be used as an installation guideline. Only 100% stamped and approved drawings from an Aquaworx approved engineer will be permitted for location and construction.

## **Slide Part Connection Assembly**

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 proper safety guidelines that are indicated on each product.

1. Each slide flange must be cleaned with acetone or comparable solvent
2. Prep each flange with SIKAp429 primer (or equivalent) and allow to dry for a minimum of ten minutes. (supplied by Aquaworx)
3. Caulk face of the flange with SIKAFLEX SIK1AW (or equivalent) (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 pre-drilled.
5. Clean inside and outside of the flange connection of any access caulk

## **Saddle Connection**

1. Each saddle must be connected according to engineered specifications
2. Straight 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 approved structure using fasteners specified by the engineer

## **DAILY SLIDE INSPECTION**

A daily inspection of the slide is important to maintain your investment and the safety of each rider. Prior to daily slide operation an inspection must be performed. This inspection includes the following:

1. Inspect the slide path to make sure there are no obstructions
2. Look for chips, bubbles, or cracks in the fiberglass finish
3. Leaks or drips from flange connections
4. Caulking that has worn or peeled away
5. Any loose or missing fasteners

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

## **WATER SLIDE GEL COAT MAINTENANCE**

All Aquaworx waterslides are made from gel coat and fiberglass. 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, a material called gelcoat is applied to the outer surface. Gelcoat is used to cover any imperfections within the fiberglass, ensuring a smooth riding experience for the user.

Gelcoat 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 gelcoat surface, fading it and making the surface cloudy. The oxidation process for gelcoat is similar to how metals rust or corrodes. To ensure the desired look and extend the life of your gelcoat surface the following maintenance should be performed approx every 3-6 months depending on site specific weather conditions or sun exposure:

1. Clean surface area with soft towel or cloth to remove excess dirt or scaling
2. Apply fiberglass wax or sealer as you would to a car or boat  
\*marine grade wax or sealer recommended
3. Buffing with circular polishing wheel may be necessary dependent upon condition

# Waterslide Safety Plan

Hours of Operation: TBD per project or while attendant is present.

Attendant/Employee Responsibilities:

1. Start filtration system a minimum of three hours prior to operating the slide
2. Walk slide, steps, landing, flume and platform prior to opening. Ensure 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 attendant will enforce all rules at all times.
4. If slide requires attendant: In the event the attendant leaves the slide area, the slide will be turned off and everyone must exit the slide area. Gate will be closed and locked until attendant returns.
5. Attendant will keep riders three (3) feet 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 such time as the next rider is cleared to enter the slide surface.
7. Slide will be closed if lighting is detected in the area.
8. At closing, attendant will ensure that the filtration system will remain on for a minimum of three (3) 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 42 inches tall
3. Riders must be 300 pounds or less
4. Riders must be in good general health
5. 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 back, feet first, arms crossed or hands interlocked behind head, legs crossed at the ankles)
9. No standing or head first riding
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 swim wear is required
12. No riders under the influence of alcohol or drugs are permitted
13. Riders must exit the slide quickly and clear the plunge area completely prior to next rider