



Splash Pads, Waterslides, Filtration Systems, Collector Tanks

Interactive Water Slide Specifications

1. All Fiberglass component materials of our water slide flumes shall be molded using premium virgin polyester resins and glass reinforcing materials. Acceptable manufacturers include: Jushi USA, Reichold Chemicals, A.O.C., & H.K. Research.
2. Minimum Construction shall consist of an 18-mil thick gel coat skin, two to three layers of 3610 woven fiberglass overlapped in the corners, with properly applied amount of resin, and an out iso layer to ensure waterproofing and integrity. Minimum wall thickness: 3/16"
3. All plumbing penetrations for water feed lines shall be factory installed and sealed using two-part epoxy to hold coupling in place, marine grade 5200 caulk on the interior edge of the penetration, and 4 layers of matt fiberglass and polyester resin on the exterior edge to ensure strength and adhesion.
4. Flume sections will use FDA/NSF approved UV resistant gel coating as standard interior and exterior colors.
5. All steel components of our water slide towers and support arm structures shall be ASTM-A36 mild carbon steel. Sch-40 steel pipe 1"-16", steel tubing 0.5"-6", C-channel/S-beams & connection flanges.
6. All welds shall be ¼" continuous or skip, ground flush without burrs unless noted otherwise in project specific engineering.
7. Flow recommendations and total dynamic head pressures depend on the model of water slide being installed and range from 20 to 750 GPM. Refer to the water flow specifications for each individual slide.
8. Footing requirements vary with each model and are determined by height, configuration, soil compaction, and wind load. Anchor bolts range from 0.5"



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to 1" x 9 times diameter length. Epoxy anchors shall be an equal part epoxy polymer cartridge injection system ramset Epcon ceramic "Power Fast" cartridge HILTI HSE2411, or engineer approved substitution, installers shall be trained by the manufacturer's representative. All footings shown in cut sheet are recommendations based on best practice and do not represent per project engineering. Varying as required by project specific engineering.

9. All steel components are galvanized prior to polyester powder coating 5-8 mil for color coordination.
10. All water slide towers to be mounted level and at a consistent elevation in accordance with the project specific engineering with bolt holes in the pattern on the mounting flange.
11. All flume sections connected with marine grade 5200 caulk on the interior edge, then secured together through factory drilled ¼" holes, using 316L stainless steel ¼-20 pan head bolts and Nylock Nuts.

NOTE: Aquaworx water features meet or exceed:

ASTM international standards for water slides and water features, F2376-21 Standard practice for classification, design, manufacture, construction, and operation of water amusement rides

"World Water Park Association Considerations for Operating Safety", published by the World Water Park Association, 7474 Village Drive, Prairie Village, KS 66208

"Suggested Health & Safety Guidelines for Recreational Water Slide Flumes" US Dept. of Health & Human Services, Public Health Services, Center for Disease Control