



# Specifications for Water Wheel:

March, 2010

## **General Structure Design and Construction:**

The Water Wheel is a structure that emits water from an open extended pipe onto water wheel element cascading water to users below. Feature standard height is 14'0" from mounting pad to top of structure. Feature structure is mounted directly to thickened concrete pad designed by others. Feature flow rates can be adjusted to increase or decrease rate of spinning water wheel and projection of water. The manufacturer shall supply a complete structure package including: tubular pipe structure, plastic water wheel, stainless steel water wheel hardware, base skirt, anchoring system, gasket, fasteners, and hardware. Pumping system and supply piping with flow control valve to be supplied and installed by others. The Water Wheel is manufactured exclusively by Aquatic Recreation Company, LLC, Toll Free Phone #877-632-0503, Local Phone # 952-445-5135, Fax #952-345-6444, Website: www.arc4waterplay.com.

## **Structure:**

Structure to have (3) components: tubular structure, water wheel, and base skirt. These components to be assembled in the field with stainless steel hardware and gaskets supplied by the manufacturer.

## **Tubular Structure:**

Structure shall be an 8" dia. Structural tube with standard 150# flanged connection on mounting base. Entire structure constructed from fiberglass re-enforced plastic with durable finish designed to resist damage from wind speed of 100 mph and seismic Zone (4) classification.

## **Water Wheel:**

The water wheel will be fabricated using a colorful polyethylene plastic. Water wheel will mount to tubular structure with stainless steel hardware.

## **Base Skirt:**

Base skirt to be fabricated from fiberglass re-enforced plastic with durable finish and fit over base mounting flange and mounting hardware. Base skirt to be a two-piece fabrication with vandal-proof stainless steel security fasteners for securing skirt to structure mounting flange.

## **Finish:**

All finishes to be compatible with chlorinated water systems, be non-toxic, and non-corrosive. UV stabilizers are added to provide color protection in indoor and outdoor installations.

## **Colors:**

Owner may select colors for each individual component: tubular pipe structure, and base skirt. Color options are White, Purple, Yellow, Blue, Green, Red, and Orange. The water wheel comes with a red wheel and yellow paddles only.

## **Mounting System:**

Structure to be anchored to a thickened concrete slab with 5/8-inch stainless steel anchoring studs. Studs to be drilled and anchored into place with a fast setting two-part component adhesive per manufacturer installation instructions.

## **Flow Rate Design:**

Feature nominal design flow rate for this project is: \_\_\_\_\_ *GPM*, which will require a \_\_\_\_\_ *INCH* size pipe feed with a flow control valve supplied by others.

## **Warranty:**

Product warranty will be a five year warranty against defects in workmanship and materials. All finishes shall have a five year unconditional warranty against rust and corrosion. Warranties exclude normal wear and tear, abuse, improper installation and maintenance.

## **Packaging:**

The Water Wheel shall be packaged with all necessary support and protective wrapping as to protect from damage during shipping.

## **Installation Instructions:**

The Water Wheel will be provided with complete installation drawings and instructions. Please read all installation instructions prior to installation. Installer may call Aquatic Recreation Company at their toll free number #877-632-0503 during installation if there are questions concerning this product.

- Product Specifications subject to change at any time.