

WORLD • CLASS
AQUARIUMS



Reynolds
POLYMER TECHNOLOGY, INC.
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Way Beyond Ordinary.

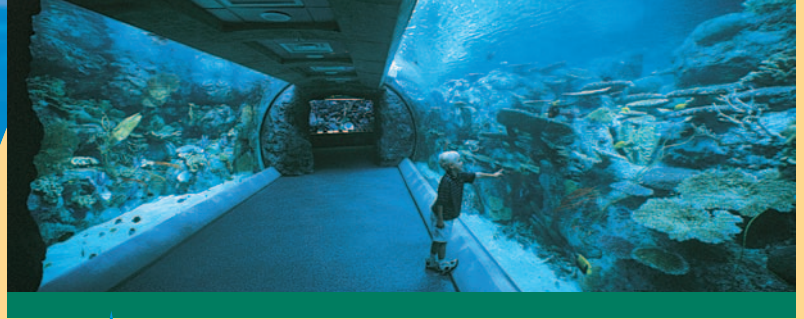
AquaDom, Berlin, Germany
Photographer: Christian Gahl



▲ AB baltic Shopping Center, Kvanans, Lithuania

WORLD • CLASS AQUARIUMS

For over 20 years, Reynolds Polymer Technology, Inc., has been a world leader in the manufacture and installation of R-Cast™ windows in aquariums, zoological gardens, and underwater research centers from Cape Town, South Africa to Vancouver, Canada. Reynolds Polymer Technology has supplied well over 50% of the world's major aquarium windows. Our advanced R-Cast™ technology combined with experience in building some of the world's most impressive aquariums makes Reynolds Polymer Technology the number one choice for aquarium design and manufacture.



▲ Aquarium of the Pacific, Long Beach, California

Our Focus Is on Quality

R-Cast™ is Reynolds Polymer Technology's high performance acrylic. R-Cast™ technology allows for the thickest and largest monolithic aquarium walls in the world. While others must laminate their cast acrylic sheets into a multiple layered panel, Reynolds Polymer Technology produces monolithic R-Cast™ sheets giving customers superior quality and affordability. The process of monolithic casting eliminates the loss of strength, delamination and yellowing inherent in laminated acrylic sheets.

In our global manufacturing facilities we produce crystal clear R-Cast™ in almost any shape, size and color, using only the strictest quality standards. We are able to bond R-Cast™ together, in the factory or on-site, to provide almost any configuration imaginable. With our ground-breaking aquarium designs, Reynolds Polymer Technology is known throughout the world for quality and innovation.

Some key features of R-Cast™ include:

Outstanding Optical Clarity

R-Cast™ is as transparent as the finest optical glass providing excellent light transmission.

Excellent UV Properties

R-Cast™ filters out most of the harmful UV components in both natural and artificial light.

High Impact Resistance

R-Cast™ has up to 17 times greater impact resistance than glass.

Weatherability

R-Cast™ is unaffected by sunlight or fluorescent lights, resists aging and maintains stability under a wide range of temperatures.



▲ Loro Parque, Tenerife, Canary Islands



▲ Indianapolis Dolphin Exhibit, Indianapolis Indiana

We Create Acrylic Shapes

Whatever you have in mind, Reynolds Polymer Technology can create it. We offer the following:

Acrylic Glazing Panels – Flat and Curved

Using our R-Cast™ technology, Reynolds Polymer Technology produces the world's largest and thickest acrylic glazing panels. With our thermoforming and bonding technologies, the aquarium design possibilities are endless.

Tunnels

Visitors become part of the underwater experience with our incredible mullionless tunnels. We have developed a wide variety of tunnels with views up to 360 degrees.

Cylinders

Our on-site chemical bonding technology makes it possible to build cylinders of any size. We utilized this technology to build the world's largest cylinder aquarium, the AquaDom in Berlin, Germany. On a smaller scale, we offer seamless cylinders in 8 foot, 6 foot and 5 foot diameters. Custom sizes are also available.

Stand-Alone Tanks

The clarity and strength of our bonds provide a museum quality structural joint to facilitate a designer's vision. We can create an endless array of custom fabricated tanks using a combination of flat sheets, formed sheets or any other R-Cast™ pieces.



“Reynolds Polymer Technology has established the finest production facility in the world for acrylic viewing panels.”

– Turner Construction



▲ Arctic Ring of Life, Detroit Zoological Institute, Detroit, Michigan

Value Engineering and Project Planning

Our engineers work together with architects to provide an incredible viewing experience, cost-effectively. General contractors rely on our experience to foresee and avoid on-site problems that may arise with each unique project.

Installation and On-Site Chemical Bonding

Bonding on-site is a complex process that we have perfected. For large projects we use specially constructed, environmentally controlled rooms.



▲ AquaDom, Berlin, Germany

We Create Innovative Designs

The versatility of R-Cast™ provides an ideal medium for innovative design. Reynolds Polymer Technology's focus on value engineering has created extraordinary, yet cost-effective acrylic designs.

We understand how to build an exhibit to meet the animals' needs. For example, we can design huge tanks that allow sharks to swim uninterrupted and let small fish hide from larger predators.

We also know that your audience needs to have the best views possible. Our engineers design exhibits that keep your visitors safe. They engineer the exhibits to handle enormous pressure loads while still giving your visitors uninterrupted views.

Our strong technical engineering department and innovative design team have created what others said could not be done. With R-Cast™ the possibilities are endless.

PROJECT SPOTLIGHT

AquaDom

Nestled in the heart of Berlin, the AquaDom aquarium is the world's largest cylinder aquarium at 52 feet high by 36 feet in diameter. This engineering marvel was built by Reynolds Polymer Technology using a total of 41 R-Cast™ panels bonded together seamlessly. It took an astounding 150 tons of R-Cast™ to complete and holds nearly one thousand tons of salt water.

Visitors have a chance to experience an array of colorful corals, rock formations and a myriad of over 2,000 fish as they ride up through the center of the aquarium in a split-level glass elevator.

The AquaDom is an impressive example of Reynolds Polymer Technology's ability to take aquarium design to new heights.

“You've proven once again to be 'artists in acrylic'.”

– Walt Disney Imagineering

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