



NYC'S NATIONAL MEMORIAL FOUNTAINS REINFORCED WITH ADVANTEX® CORROSION RESISTANT GLASS REINFORCEMENTS



The unveiling of the National 9/11 Memorial Fountains at New York City's World Trade Center, marked the tenth anniversary of those who lost their lives in one of the nation's worst tragedies. In 2005 the National September 11 Memorial & Museum at the World Trade Center Foundation was set-up to oversee construction of a Memorial on the site of the twin towers. The Foundation opened a worldwide design competition and received more than 5,000 submissions from 63 countries.

The winning design, entitled "Reflecting Absence," is an eight-acre plaza with 400 trees that surround two gigantic recessed reflecting pools. The challenge was to keep 600,000 gallons of water in each pool flowing and sparking throughout the year.

Before the first pipe and fitting were wound for this project, there was approximately three years of design and engineering efforts by Industrial Fiberglass Specialties. Working with the Memorial Fountain architects and specification team, Industrial Fiberglass Specialties provided guide specifications for the quality and performance standards needed in fire resistant FRP composite piping system.

The two materials of construction approved for use at the memorial fountain site were 316 stainless steel and FRP composite pipe. Industrial Fiberglass Specialties is a full service provider of FRP composites.



“Advantex® glass fiber reinforcement is an excellent product for corrosive applications and environments.”

**David Dean, Vice President
New Business Development**
Industrial Fiberglass Specialties



4,300 lineal feet of 12" and 16" diameter FRP composite pipe from Industrial Fiberglass Specialties was utilized on the project. As well as, heavy duty socket flanges that allow for over-wrapped hubs for maximum joint integrity.

Industrial Fiberglass Specialties FRP composite pipe is also designed to handle corrosive water treatment chemicals without attack that might occur with some metal alloys. The interior liner, structural wall and exterior fire retardant reinforcements were all provided by Owens Corning, USA. Industrial Fiberglass Specialties is a long time user of glass reinforcements from Owens Corning.

FRP COMPOSITE PIPE KEY FACTS

Glass Type: Advantex® corrosion resistant fiber

FRP Pipe System Length: 4,300 lineal feet of 12" & 16" diameter FRP pipe.

Weight Savings: 677,760 lbs. saved vs. 316 SS

Projected Service Life: 50 Years

Fabrication Process: Filament Winding

Resin: Vinyl polyester resin with heat-cured fire retardant phenolic resin on exterior

Products installed by:

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