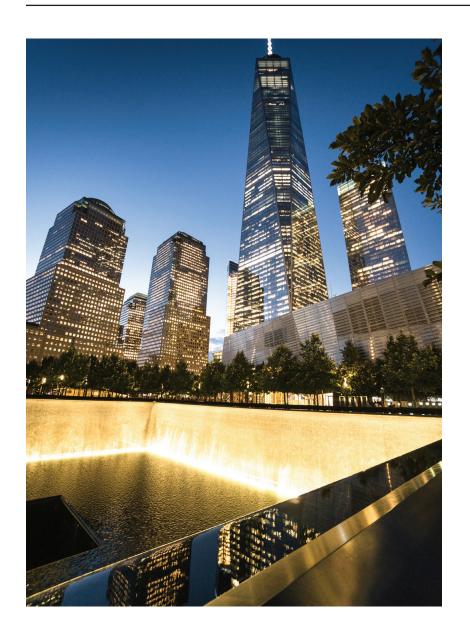




NYC'S NATIONAL MEMORIAL FOUNTAINS REINFORCED WITH ADVANTEX® CORROSION RESISTANT GLASS REINFORCEMENTS



The unveiling of the National 911 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 reflected 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:

Industrial Fiberglass Specialties, Inc., Dayton, Ohio Phone: 937-222-9000 Email: sales@ifs-frp.com

www.ifs-frp.com



Americas

Owens Corning Composite Materials, LLC.

One Owens Corning Parkway Toledo, Ohio, USA 43659 1-800-GET-PINK®

Europe

European Owens Corning Fiberglas Sprl.

166 Chaussée de la Hulpe B-1170 Brussels Belgium +32 3 674 8211

Asia Pacific

Owens Corning Shanghai Regional Headquarters

40/F, Pudong Kerry Parkside, 115 Fang Dian Road, Pudong, Shanghai, 201204, China +86-21-6101 9666

https://www.owenscorning.com/composites | Composites@owenscorning.com

This information and data contained herein is offered solely as a guide in the selection of product. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application of the product to determine its suitability. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation. We reserve the right to modify this document without prior notice