

STRONGWELL®

APPLICATION PROFILE



STRONGWELL FRP SOLVES BAFFLING WASTEWATER PROBLEMS

The Lima Ohio Waste Water Treatment Plant (WWTP) is a municipally-owned and operated wastewater treatment facility located south of Toledo, Ohio. It operates at 33 million gallons per day, providing primary, secondary and tertiary treatment, as well as biosolids and digester gas recycling. The WWTP needed to expand its wastewater processing capacity. One solution was to utilize a baffle wall system which would allow the water to move more slowly, resulting in better primary sedimentation.

A unique demand for this project was that the installation was completely underground. Baffle wall panels had to be transported to their underground installation locations through 36" diameter manholes to reach the clarifiers. Bill Gaus of Harrington Industrial Plastics recommended Strongwell's FRP due to its baffle panel size, high corrosion resistance against wastewater, competitive pricing, shipment flexibility and a strong emphasis on customer relationships.

Due to Strongwell's unique baffle wall design, light weight (6½ lbs. per foot) and 24" width, the panels were easily transported through the manholes to the final destination. Peterson Construction, the contractor hired to build the project, noted this installation was done with relative ease and without the use of cranes or any other lifting equipment. EXTREN® Series 500 beams and equal leg angles were also used as baffle supports.

TECHNICAL DATA

Product:	Fiberglass Baffle System
Process:	Pultrusion, Fabrication
Materials:	Fiberglass Baffle Panels EXTREN® Series 500 structural shapes
Sizes:	EXTREN® 12" x 6" x 1/2" I-Beams EXTREN® 3" x 3" x 3/8" angle
For:	Peterson Construction
User:	Lima Wastewater Treatment Plant Lima, Ohio



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