



CROM – 70 Years of Excellence

Founded in 1953, CROM had a mission to change the water market with the newly innovated, wire-wrapped prestressed concrete tank technology. In 70 years, CROM has worked to exceed clients' needs and expectations through milestones and innovations in the water and tangential industries. Not only is CROM committed to designing and building tanks, but CROM also self-performs condition assessments, concrete rehabilitation and restoration, high-performance coatings, shotcrete placement, hydro-demolition, and specialty metal fabrication for America's aging water and wastewater infrastructure.



The Wave Wall, which is over 70 ft (21 m) tall and 100 ft (30 m) long, curving between concave and convex on both axes, and creating a wave-like appearance when viewed from the lobby, won the Architecture | New Construction category for the American Shotcrete Association's Outstanding Project Award in 2022.

While the Wave Wall is an innovation focused on creating one of the world's most acoustically perfect places, the elongated prestressed concrete tank for biological nutrient removal (BNR), also known as an oxidation tank, was created with the intent of processing wastewater more efficiently. The elongated oxidation tank is one of CROM's largest tank offerings.



Fig. 1: Egg-Shaped Digester Tanks, Baltimore, MD.

CROM's focus on innovation spans far and wide, as evidenced by the Prestressed Concrete Egg-Shaped Digester tanks in Baltimore, Maryland, which have faithfully provided uninterrupted service since the early 1990s (Fig. 1); the "Wave Wall" which was designed and constructed for the Dr. Phillips Performing Arts Center in Orlando, Florida to provide a soundproof barrier between the lobby and theatre (Figs. 2 and 3); the elongated oxidation tanks, which are known for their outstanding concrete crack control (Figs. 4 and 5); and now the straight wall watertight tank known as CROM² (Fig. 7).



Fig. 4: Biological Nutrient Removal (BNR) tank, Daytona, FL.

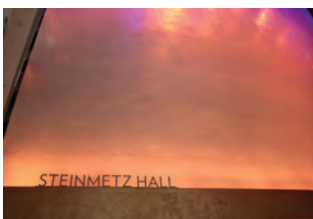


Fig. 2: Wave Wall, Dr. Phillips Performing Arts Center, Orlando, FL.



Fig. 3: Wave Wall, Orlando, FL.

The elongated 16 million gal (60 million l) five-stage prestressed concrete treatment basin in Daytona, Florida is an example of its immense size (Fig. 4); it can fit an entire football field within the tank. In addition, the complexity of this type of tank can consist of a single or multi-channel configuration with a ring, oval, or horseshoe-shaped basin. It is constructed using an AWWA Type II shotcrete core wall with an embedded steel diaphragm. The innovative design and construction means it delivers outstanding watertightness and requires minimal maintenance.



Fig. 5: BNR tank in Southern Alabama.



Fig. 6: Modified digesters in Ottawa, Canada.

CROM has gone even further to offer a full-service experience for its clients by now offering straight-wall, watertight tanks – CROM² – the newest technology in tensioned concrete structures. The addition gives CROM’s clients an opportunity to use a single company for much of the construction of water infrastructure.



Fig. 7: CROM² straight-wall, watertight tanks.

Beyond the ability to create, CROM’s efforts to restore and sustain current American infrastructure has been integral in keeping a foothold in American-made and sustained infrastructure. From repairing and restoring headworks and bridges to polyurethane crack injections, CROM works to save current infrastructure by employing cost-effective restorations.

The constant degradation of concrete, metals, coatings, and equipment by biogenic sulfide corrosion requires restoration of wastewater infrastructure. Restoring current infrastructure has proven to be less time-consuming and more economical than completely replacing a facility. With CROM’s design/build approach, repair and restoration allows opportunities to add unparalleled value by creating custom fiberglass diverters and stainless-steel gates, hydro-demolition, replacement of compromised reinforcing steel, crack repair, resurfacing, custom high performance coatings systems, restoration of gates, rehabilitation of connection points to effluent boxes, and removal, rehabilitation, and replacement of weir gates.



Fig. 8: CROM ACI-Certified Nozzleman shooting shotcrete.

CROM’s purpose-driven performance, which was built on a foundation of core values, continues to reach for expansion of our current and future portfolio of services.

CROM’s goal: to assist the client’s efforts to protect water as the world’s most precious and invaluable natural resource. With CROM’s services, sustainable infrastructure can be attained for future generations.

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