



THE CUPOLEX SOLUTION



STORMWATER MANAGEMENT

FORMING SOLUTIONS
FOR SUBSURFACE
DETENTION AND
RETENTION SYSTEMS

www.cupolex.ca

PONTAROLO[®]
ENGINEERING 



STORMWATER MANAGEMENT

FORMING SOLUTIONS FOR SUBSURFACE STORMWATER DETENTION AND RETENTION SYSTEMS

CUPOLEX® provides cost-effective Stormwater Management solutions to engineers, developers and municipalities that are customized for their site specific needs.

Applications include slowing or reducing volume from your project site, protecting waterways and maintaining Stormwater quality, or storing water for harvesting or reuse. CUPOLEX® Stormwater management systems can address all these needs with simple and cost effective concrete forming solutions.

THE CUPOLEX SOLUTION

CUPOLEX® is a forming system for providing an easy, efficient and fast solution for constructing cast in place underground concrete Stormwater storage tanks. CUPOLEX® concrete tanks can be designed at various depths either as shallow or deep tanks.



STORMWATER APPLICATIONS

- Stormwater Detention
- Stormwater Retention/Infiltration
- Stormwater Harvesting
- Low Impact Development (Contributing to LEED)
- Custom Engineered Design



FEATURES

- High Load Bearing exceeding HS-40 loading
- Can be designed as watertight system
- Custom design and layout
- Applications for pavements or green space
- Streamlined installation supporting required work loads
- Suitable in minimum or no cover applications
- Cost-effective, quick and easy installations
- No liners or geotextile fabric required
- Maximum storage volume up to 98% void space
- Isolator Rows can easily be incorporated in any CUPOLEX tank design with TSS removal efficiency exceeding 90%
- Filter fabric can be used on transfer inlets incorporated in tank to remove Phosphorous, Petroleum Hydrocarbons and Zinc.
- Shipped unassembled, saving costs for freight
- Allows for inlet/outlet pipes and cleanout/observatory ports installed at any location of tank
- Easy access for maintenance & inspections
- Saves space and money
- Engineered Design
- Options for watertight systems
- Can be designed for sites with high water tables
- Time tested technology with over 500 million sq.ft installed
- manufactured to ISO 9000:2002 high quality standards



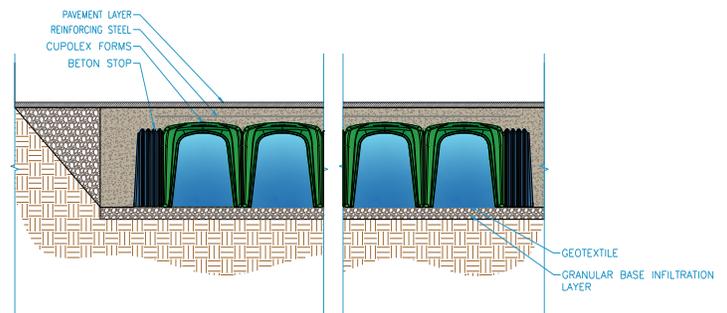
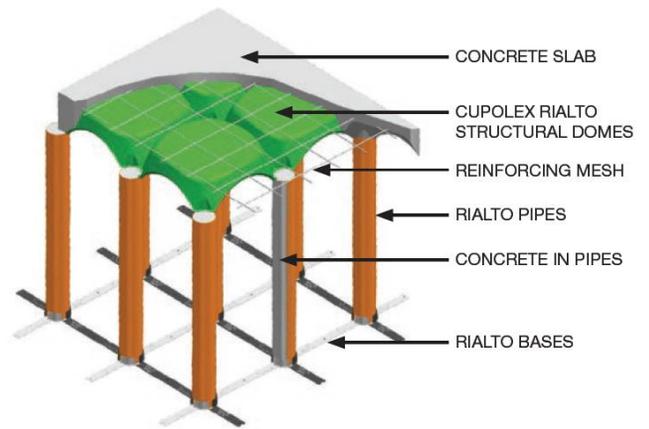
CUSTOMIZED SOLUTIONS

The CUPOLEX® elements quickly interlock and connect to each other composing a bearing structure ready for the placement of concrete, creating the most structurally sound underground Stormwater tank on the market. This highly efficient method to manage storm water is supported by the matrix of domes and arches formed by the CUPOLEX® elements allowing for easy inspection/cleaning.

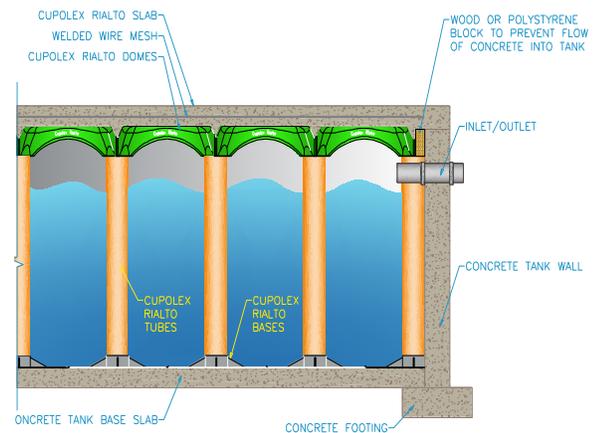
CUPOLEX® concrete tanks can be designed at various depths either as shallow or deep tanks.

CUPOLEX® Dome Forming System with depths from 260mm (10 inches) to 700mm (28 inches) in depth can be used for constructing shallow tanks on sites with a high groundwater elevation. If deeper tanks are required for maximum volume or to minimise the footprint area, then the CUPOLEX-RIALTO® forming system can be used to create Stormwater tanks from 500mm (20 inches) to 2000mm (79 inches) deep. This cutting edge forming system comprises of CUPOLEX® domes, pipes and bases manufactured using 100% recycled materials.

The CUPOLEX® storm tank system can be designed to support any high load-bearing requirements, unlike any pipe, plastic vault, crate system, or time consuming costly precast vault system on the market. This structurally advanced, cost effective Stormwater management system was created to reduce the overall footprint, accommodate any site restraints, and lower overall costs. Whether you require a solution for detention, retention, water quality, water harvesting or water reuse, CUPOLEX® has a design to meet your specific needs.



CUPOLEX SHALLOW RETENTION/INFILTRATION TANK



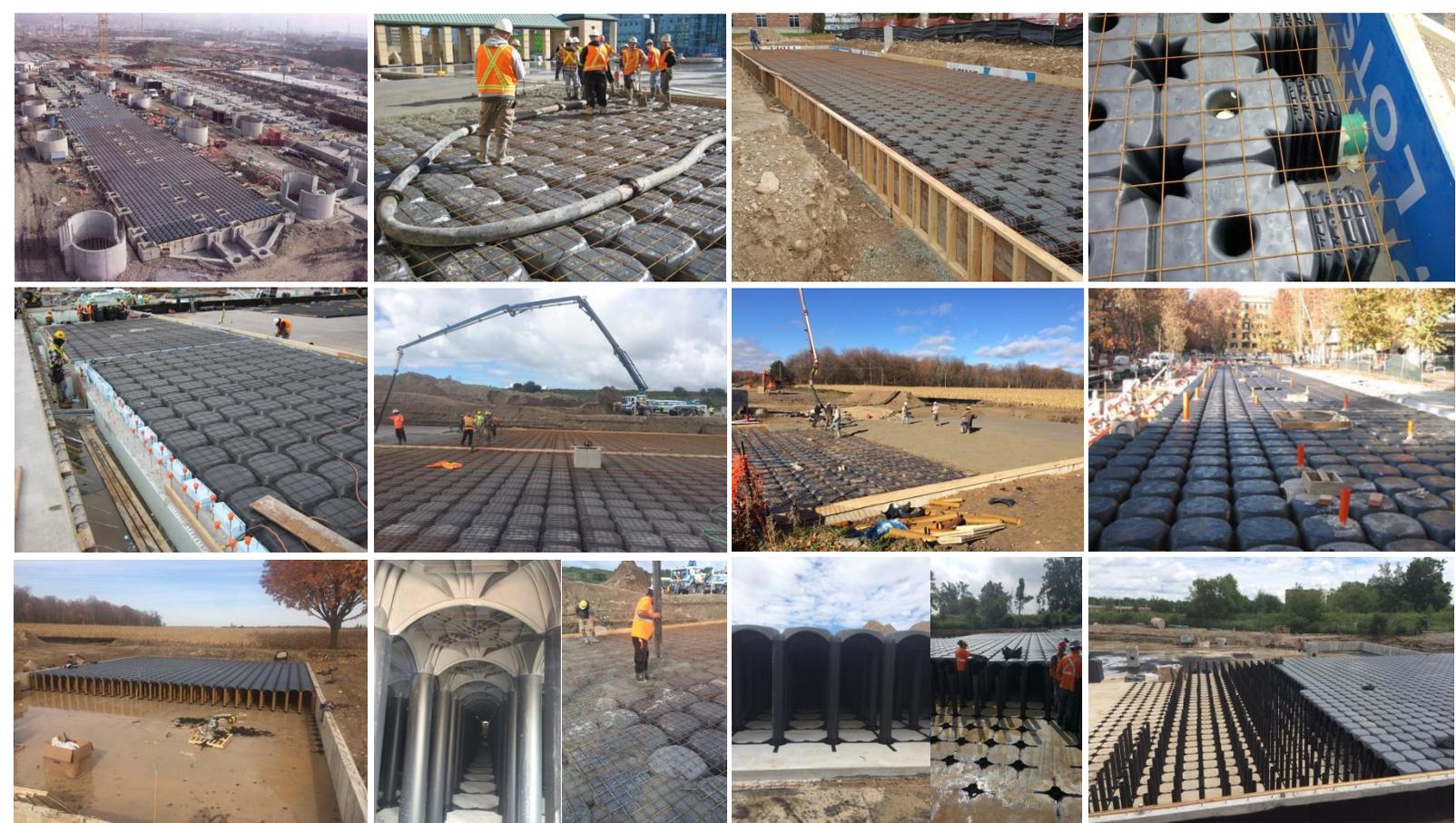
CUPOLEX RIALTO DEEP DETENTION TANK



DESIGN & ENGINEERING

Pontarolo Engineering Inc. provides PE stamped shop drawings through our engineering partners globally, construction training, and installation observation. We work closely with the design team, the contractor, and the owner to ensure the success of the project. Each site is different, and working with project partners to find installation solutions that address specific site needs is a part of the service we provide.

To begin using the CUPOLEX® or CUPOLEX RIALTO® for your Stormwater Tank project, visit our Solutions page at www.cupolex.ca for a step-by-step road map on using these products.



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