

## Aquality Goliath In-Situ Concrete tank formwork system

(Item No. 71300)

Goliath is a sacrificial formwork system that helps to create the roof section of any in-situ cast concrete water storage tank.



### Typical Applications:

- Stormwater attenuation tanks
- Rainwater harvesting tanks

### Key features:

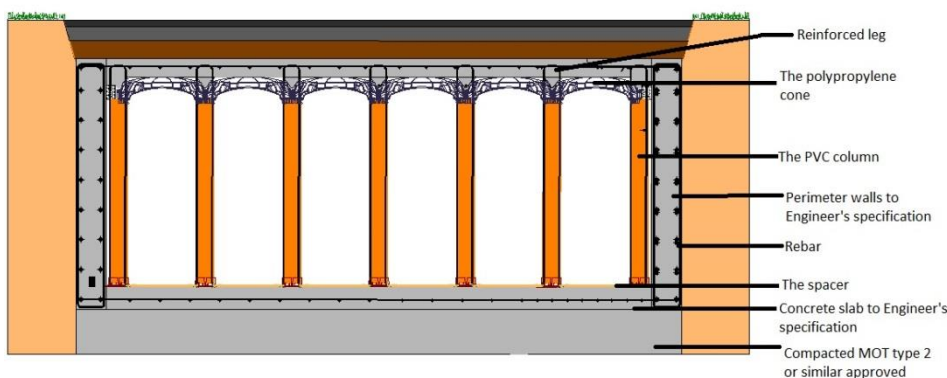
- Flexible modular system – Allows any custom shape and size to be configured to suit site constraints
- Provides storage volumes for attenuation of surface water runoff
- PVC columns can be supplied to any length from 500mm - 2500mm to suit tank depth.
- Suitable for use with minimal / no cover, beneath car parks and under minor roads, and for use by HGV's
- Quickly helps to create a high strength reinforced concrete void

### Key Benefits:

- Creates high Load-Bearing Structure
- The Goliath Formwork simple and fast to lay
- Open structure allows for easy access and maintenance
- Lightweight - removes the need for costly lifting equipment
- Cost effective alternative to conventional pre-cast systems
- Ideal for use within or under buildings




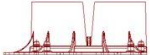
### Functioning principles:

The Aquality Goliath formwork is an innovative permanent plastic former system used to create an in-situ concrete attenuation and storage tank. Concrete is poured into the columns and over the cones to create a high strength tank structure. This formwork is manufactured from a lightweight recyclable plastic making it easy to handle and quick to install, and the modular system can be adapted to suit site requirements allowing any custom configuration to be easily and quickly formed. Its patented design offers engineers and contractors an alternative

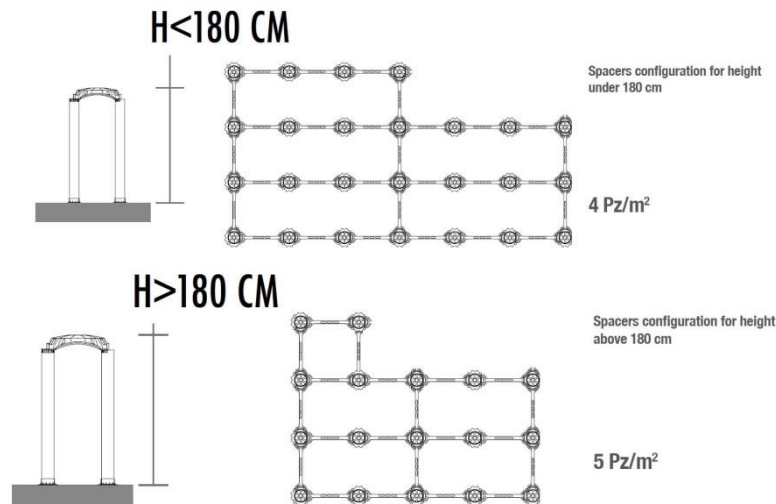


and cost effective way of achieving a strong concrete water storage void with a very high load bearing capacity and therefore suitability for heavily trafficked areas. The Aquality Goliath formwork makes it possible to create reinforced concrete tanks of custom depth by using the PVC columns supplied to the required length.

### Technical data:

	Description	Length (mm)	Width (mm)	Height (mm)
	The polypropylene cone	580	580	150
	The PVC column	125	125	500 - 2500
	The spacer	473	13	13
	The foot	170	60	60

### Goliath formwork foot and spacer layout:



### Maintenance:

It is important to note that failure to control and remove sediment build-up in SUDS is the single largest cause of system failure. The incorporation of man accessible inspection wells at inlet and outlet positions, can ensure that any accumulated sediment can be removed from potential pinch points in the tank. The open design of the Aquality formwork allows the system to be visually inspected or alternatively, remote CCTV can be deployed from access chambers, inspection points or pipes at the perimeter of the system.

### Specification clause:

The stormwater storage system shall be The Goliath formwork concrete system by Aquality Ltd, 6 Wadsworth Rd, Perivale, London UB6 7JJ. The system shall comprise an in-situ cast concrete structure xxm high using the formwork to create an accessible and maintainable void. The structure shall be designed to Eurocode 2 by a suitably qualified engineer and installed by a competent contractor.

### NBS specification:

The Goliath formwork stormwater concrete storage tanks should be specified in NBS section R12: Below ground drainage systems. Assistance in completing this clause can be found in the Aquality Trading and Consulting Ltd entry in NBS Plus or a model specification can be downloaded from [www.aqua-lity.co.uk](http://www.aqua-lity.co.uk). For further assistance, please contact the Aquality Engineering Team.