



Constructing connections.
Consciously.

Case Study

Complex deep-depth, high-volume soakaway tank solution

ViaCon UK provided a unique soakaway tank solution at Newlands Park, Luton in the UK

THE CHALLENGE

As planning and construction on the “Junction” gateway at Newlands Park commercial development was getting underway, a few challenges presented themselves for the design of the soakaway tank.

However, initial borehole testing showed that the ground didn’t have sufficient percolation at a standard seven-metre IL/CL.

An additional percolation test revealed a need for a ten-metre IL/CL depth.

This posed a unique design challenge, requiring deeper depth levels while also achieving the volume levels required for storage.

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THE SOLUTION

By working on several different design variations to accommodate the depth and volume requirements, the ViaCon UK technical team developed a solution that both stores the required volume while also allowing water to permeate into the surrounding soil.

In a ViaCon first, ViaCon delivered a 3300mm/3.5mm gauge perforated soakaway tank. It is the only system in the UK market that works structurally at 10m IL/CL. An additional challenge was finding a way to punch the steel at a 3mm gauge. This wasn't possible with third-party providers, so ViaCon UK found a solution in-house.

THE ADVANTAGE

The benefits of working with ViaCon include:

- Bespoke solutions to match unique needs
- Expert consultation
- A Full suite of design drawings complete with structural calculations

SPECIFICATIONS

Fabricator: ViaCon UK

Contractor: Glencar

Design: Fairhurst

ViaCon solution:

- Soakaway to provide 2056m³
- 3300mm pipework c/w dished ends
- X4 legs
- Tank dimensions 49.274m x 15m
- IL/CL 9.75m

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