Case Study

Retention tanks in Poland

Corrugated steel retention tank solution collects and diverts excess rainwater in Leszno, western Poland

THE CHALLENGE

The accumulation of rainwater caused problems at Szybowników street in Leszno, Poland along national road 12. Excess water needed to be collected to keep the surface area free and operable and redirected to a nearby ditch.

THE SOLUTION

To solve the problem, a corrugated steel retention tank was constructed and incorporated in the existing storm water system. The tank itself is located in a car-free green zone.

The ViaCon solution was created using four HelCor pipes with a 2,500 mm diameter and a 244.8 m length. The individual pipes were connected to each other using 1,200 mm stubs. The total capacity of the tank is 1,200m3. To protect the tank against vertical movement from the hydrostatic pressure of the groundwater, 72 anchor pieces were attached to the tank.





THE ADVANTAGE

The water tank solution offers a number of benefits:

- Faster installation than alternatives completed in just one week (4 days for assembly, 2 days for anchoring)
- Cost effective: Short construction time and easier maintenance reduces overall costs
- Sustainable steel solution
- Flexible build: System built under a road, car park or car-free zone and multiple, customizable arrangements for tanks and their capacity and capabilities

SPECIFICATIONS

- Location in car-free green area with no traffic loads
- Corrosion protection: Zinc coating 600g/m2
- Tank inner diameter: 2,500 m
- Tank total capacity: 1,200 m3
- Single pipe length: 62.4 m
- Total length: 244.8 m
- Number of pipes: Four, arranged in parallel, each 61.20 m long

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