Referências

Retention tanks for a bus depot



Envolvimento da Uponor

- A battery of 4 PEHD Weho SN8 retention tanks with diameters ranging from DN2000 to DN2500 with a total capacity of Vc = 936.2 m3
- Tank welding and leak testing performed by the Uponor Infra Service Group and Quality Department

A modern bus depot in Wałbrzych – a step toward sustainable mobility

One of the most modern bus depots in the region is currently being built in Wałbrzych. A key component of the stormwater management system will be a battery of four retention tanks supplied by Uponor Infra.
The construction of the bus depot on Beethovena Street is one of the city's key infrastructure investments, implemented as part of a large-scale revitalization of former industrial and mining areas. The project, valued at approximately PLN 75 million and financed in 85% by European Union funds, is being carried out under a "design and build" model. It is of strategic importance for the development of low-emission public transport in the region.

Dados do projeto:

Location	Conclusão
Wałbrzych, Poland	2026
Tipo de edifício	Product systems
Transporte	Storm water

Parceiros

Investor:
Gmina Wałbrzych

Contractor:
Przedsiębiorstwo Budowlane ARKOP
Sp. z o.o. Sp.k. z Wrocławia

Comprehensive infrastructure for a modern fleet

The investor behind the project is the Municipality of Wałbrzych – a city with county rights – while the general contractor is Przedsiębiorstwo Budowlane ARKOP Sp. z o.o. Sp.k. from Wrocław. The new depot is being developed on degraded land formerly occupied by the Bahnschacht mine (later KWK Wałbrzych), as well as near historic industrial facilities such as a coking plant and sulfuric acid factory.
The depot has been designed as a multifunctional public transport service center. The facility will accommodate 38 buses, including both diesel-powered and modern hydrogen-powered vehicles. A particularly important feature will be a specialized workshop dedicated to hydrogen technology maintenance, equipped with spark-free devices ensuring the highest safety standards.
The project also includes:
 a main repair hall and bodywork workshop enabling comprehensive fleet servicing,
 an innovative bus wash facility allowing simultaneous washing and cleaning of vehicles,
 an office and administration building,
 extensive power infrastructure, including 14 charging stations for electric buses.
Due to increasing energy demand, the facility's power supply capacity will exceed 2 MW. Therefore, modernization of the transformer station has also been planned to ensure stable and reliable energy supply.

Uponor Infra retention tanks – a key element of underground infrastructure

An important part of the investment is the underground infrastructure responsible for stormwater retention and management. The selected solution was provided by Uponor Infra and manufactured from high-density polyethylene (HDPE).
As part of the project, a battery of retention tanks made of Weholite SN8 structured-wall pipes was manufactured and delivered. The system consists of four parallel tanks with diameters ranging from DN2000 to DN2500. Their total storage capacity is 936.2 m³, with individual lengths of 52.44 m, 2 × 60.53 m, and 49.54 m respectively.
The tank components were transported to the construction site and subsequently joined on-site by the Uponor Infra Service Team using extrusion welding technology, ensuring complete watertightness and material uniformity throughout the structure. After installation, Uponor Infra's Quality Department carried out leak-tightness testing, confirming the correct execution of the system.

Advantages of HDPE retention tanks in industrial and post-mining areas

The use of polyethylene retention tanks in Wałbrzych was no coincidence. Post-mining areas are characterized by complex ground conditions, the risk of uneven settlement, and increased exposure to chemical factors. Uponor Infra solutions are ideally suited to meet these challenges.
Key advantages of Weholite HDPE retention tanks include:
 lightweight yet durable construction, facilitating transport and installation even in difficult ground and water conditions,
 resistance to corrosion and aggressive chemical compounds typical of post-industrial sites,
 high resistance to mechanical damage and dynamic loads,
 system tightness and flexibility minimizing the risk of failure caused by ground settlement,
 modular design enabling future expansion of the retention system,
 service life exceeding 100 years, significantly reducing operating costs throughout the entire lifecycle of the investment.

Thanks to these properties, Weholite HDPE retention tanks are a proven and reliable solution for underground infrastructure in areas requiring exceptional durability and operational safety.

Infrastructure supporting the future of mobility

Construction is scheduled for completion at the turn of August and September 2026. Once commissioned, the depot will become one of the most advanced facilities of its kind in Poland.
The new bus depot on Beethovena Street in Wałbrzych is an example of an investment where modern transport technologies go hand in hand with environmental responsibility and urban revitalization. Uponor Infra solutions form an integral part of this infrastructure, ensuring safe and durable stormwater management in an area with a challenging industrial history.
This is yet another project in which Uponor Infra's expertise in HDPE systems supports the development of sustainable cities and modern public transport.

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