Reference

Drainage system for the N-S Route



Uponor participace

- 4,200 m of Weholite SN8 gravity sewer pipes, with diameters ranging from DN300 to DN1200, supplied in both socketed and plain-end versions.
- A battery of 12 DN1000 stormwater retention tanks, with lengths ranging from 14.28 m to 42.78 m.

Extrusion welding of Weholite pipes and retention tank components carried out by the Uponor Infra Service Team. Leak-tightness pressure testing of the retention tanks.

Uponor Infra supports the construction of the N-S Route in Ruda Śląska. Weholite technology used in another phase of this strategic infrastructure project.

More than 4,200 metres of Weholite pipes, 12 stormwater retention tanks and comprehensive installation support – Uponor Infra is participating in the construction of another section of the N-S Route in Ruda Śląska.

This is the next stage of one of the most important road infrastructure projects in the Silesia region, aimed at connecting the Cross-City Highway (DTŚ) with the A4 motorway. In the challenging conditions of mining-affected areas, the investor selected proven HDPE solutions that ensure durability, watertightness and operational safety for decades.

Projektová fakta:

Location	Dokončení
Ruda Śląska, Poland	2025
Typ budovy	Product systems
Logistika	Dešťová voda

Partneři

Investor:
UM Ruda Śląska

Contractor:
EUROVIA Polska S.A.

The N-S Route – an investment transforming Ruda Śląska's transport network

The N-S Route is the largest road infrastructure project undertaken in Ruda Śląska in recent years. Its primary objective is to create a modern transport corridor connecting the Cross-City Highway (DTŚ), the A4 motorway and the northern part of the city bordering Bytom.

The project has been implemented in stages for more than a decade. The first section, running from 1 Maja Street to DTŚ together with a grade-separated interchange, was opened to traffic in early 2013. Subsequent sections were commissioned in 2016 and 2018, gradually extending the route southwards. In September 2023, drivers gained access to the section between Kokota Street and Bielszowicka Street, while in March 2025 the first stage of the northern extension, reaching Magazynowa Street, was opened. Construction is currently underway on the next section – a more than 2.2-kilometre stretch from Magazynowa Street to Piastowska Street, carried out by EUROVIA Polska S.A.

Once all stages are completed, the region's residents will benefit from a direct connection between DTŚ and the A4 motorway, improving traffic flow, enhancing road safety and reducing transit traffic in the city centre.

Another stage of Uponor Infra's involvement in the N-S Route project

Uponor Infra has already played an important role in the development of the N-S Route. In 2022, we supplied pressure and gravity sewer pipes, manholes and stormwater retention tanks for the section between Kokota Street and Bielszowicka Street, constructed by Drogopol S.A. (details can be found HERE).

Today, we are once again supporting this strategic investment. As part of the project ''Construction of the N-S Route from Magazynowa Street to Piastowska Street in Ruda Śląska'', we are supplying HDPE-based solutions specifically designed for the most demanding operating conditions.

The scope of supply includes more than 4,200 metres of Weholite SN8 gravity sewer pipes with diameters ranging from DN300 to DN1200 in both socket and plain-end versions, as well as a battery of 12 DN1000 retention tanks with lengths ranging from 14.28 m to 42.78 m. Uponor Infra is also responsible for extrusion welding of pipes and tanks, as well as leak-tightness testing of the installed systems.

This is not the end of our involvement in the project. The next phase lies ahead – the construction of the N-S Route section from Bielszowicka Street to the A4 motorway, which we will deliver together with Primost Południe Sp. z o.o. from Będzin. Completion of the entire DTŚ–A4 connection is planned for the end of 2028.

Weholite HDPE technology designed for mining-affected areas

Infrastructure construction in Silesia presents unique geotechnical challenges. The current section of the N-S Route runs through mining-affected areas and near railway infrastructure. Under such conditions, it is crucial to use materials capable of maintaining their performance despite deformation and ground movements.
Both the gravity sewer pipes and the Weholite retention tanks supplied for this project are manufactured from high-density polyethylene (HDPE), whose properties are ideally suited to such demanding applications. Thanks to their flexibility, HDPE systems can accommodate ground settlement and dynamic loads while maintaining full watertightness and operational performance. This is particularly important in mining-affected areas where uneven ground movements frequently occur.

An additional advantage of polyethylene is its resistance to corrosion, stray currents and aggressive chemical compounds commonly found in industrial environments. Unlike traditional materials, HDPE systems are not susceptible to degradation caused by moisture or corrosive substances, ensuring long-term, maintenance-free operation. Their low weight facilitates transportation and installation, while the modular design of the tanks significantly reduces construction time, even in difficult ground and groundwater conditions.

Both Weholite pipes and retention tanks offer excellent mechanical strength and a design service life exceeding 100 years. These characteristics have made HDPE systems the preferred choice for some of the most demanding infrastructure, industrial and municipal projects.

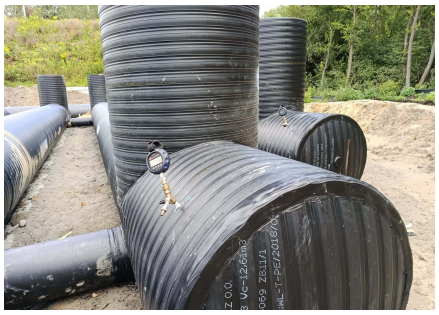
Attention should also be paid to the leak-tightness testing method applied by Uponor Infra. The tests were performed without filling the tanks with water, significantly reducing commissioning time and eliminating the costs associated with filling, emptying and disposing of large volumes of water.

Building modern infrastructure for Silesia together

The N-S Route is an investment that will serve the region’s residents for decades to come. We are proud that Uponor Infra solutions have once again been selected for a project of such importance to the development of Silesia’s transport infrastructure.
Thanks to Weholite technology, it is possible to create durable, water-tight and resilient sewerage and stormwater retention systems that perform reliably even in the most demanding ground conditions. This is why our solutions have been supporting key infrastructure projects throughout Poland for many years.

Drainage System for the N-S Route






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