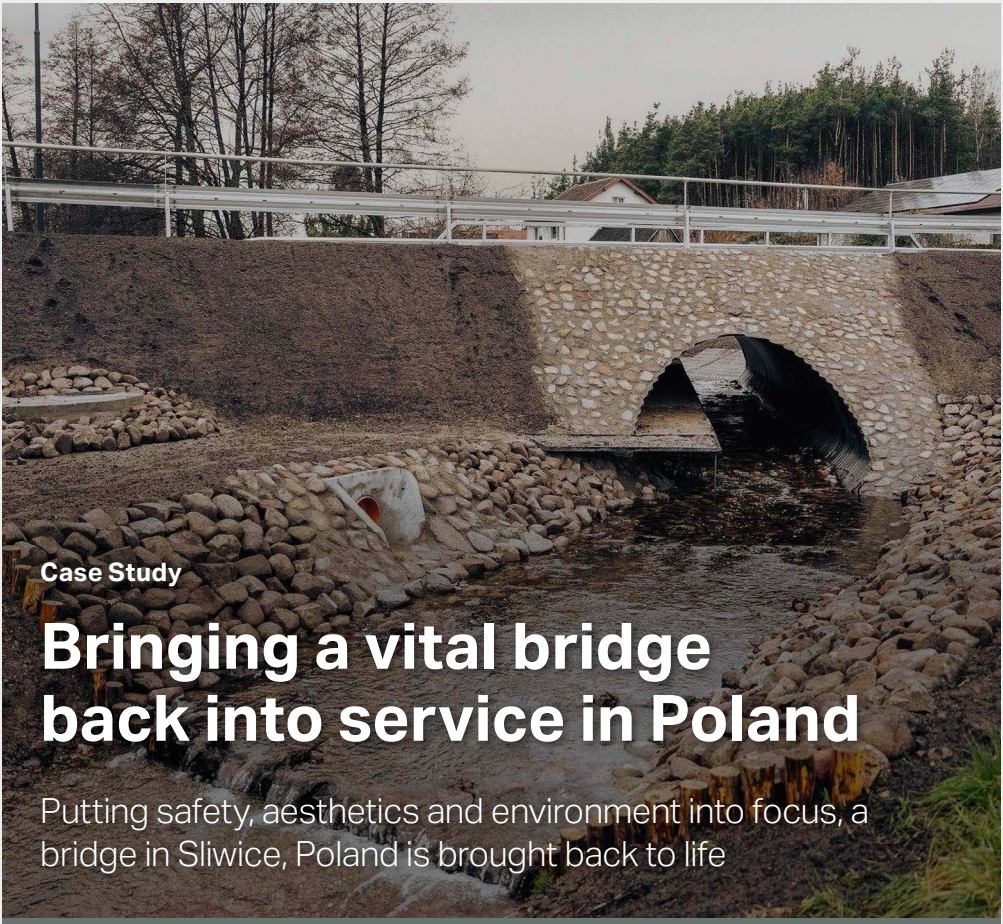

Case Study

Bringing a vital bridge back into service in Poland

Putting safety, aesthetics and environment into focus, a bridge in Sliwice, Poland is brought back to life

THE CHALLENGE

In Sliwice, Poland, a bridge originally built in 1916 and widened in the 1950s faced the challenge of needing to be reconditioned or reconstructed to be considered safe for use. As a critical part of the local transportation network, it was important to bring the bridge up to modern standards and also provide safer, more efficient transport for local residents and through traffic.

Comprehensive reconstruction got underway, and the residents of Sliwice gained access to a modern and safe bridge on Podgorna Street. This investment represented a significant step towards enhancing safety, user comfort, and environmental protection.

THE SOLUTION

Construction work focused on bringing in modern technology and ecological considerations as a part of the plan. Building work progressed efficiently using spiral corrugated steel pipe, galvanized and coated with a polymer layer, ensuring long-term durability and resistance to corrosion. Furthermore, the bridge was upgraded with modern abutments, pavement, safety barriers, and an advanced drainage system.

To support environmental sustainability, a special steel shelf was installed beneath the bridge, facilitating the migration of small animals. This measure helped preserve natural movement corridors for local fauna, demonstrating a thoughtful integration of infrastructure with the surrounding ecosystem.

THE ADVANTAGE

The new bridge offered a number of benefits:

- Long service life (40+ years)
- Better travel conditions and safety for residents and traffic, including a new pavement and dedicated bicycle path for increased pedestrian and cyclist access and safety
- Sustainable, environmentally friendly steel solution, requiring no heavy equipment for installation and a lighter transport footprint
- Integration with local environment

This structure illustrates how modern engineering solutions can effectively balance durability, efficiency, and ecological responsibility.

Residents of Sliwice now have access to a reliable and modern piece of infrastructure that simplifies daily life while also enhancing the functionality and appeal of their local community.

SPECIFICATIONS

Span: 2.84 mm

Rise: 2.02 m

Profile: HCPA-33

Sheet thickness: 2 mm

Corrugation: 68x 13 mm

Corrosion protection: Zinc coating and polymer coating

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Photo courtesy of Mr. Michal Rytlewski, BoryTucholskie24.info

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