



Case Study

Culvert construction part of modernizing project in Warsaw

Biodiversity protection and better access through infrastructure improvement

THE CHALLENGE

The Czerniakowski Port in Warsaw, Poland is recognized as a hub for physical activity and recreation (including canoeing, wakeboarding, stand-up paddleboarding, and saunas). The area is undergoing systematic modernization, contributing to its continued development. The culvert provides a connection to Przystań Warszawa, a recreational and cultural center on Cypel Czerniakowski. Additionally, the vicinity hosts the headquarters of organizations promoting activities along the Vistula River, as well as sports, catering, and retail infrastructure, including courts,

squash facilities, beach volleyball courts, restaurants, and an equipment store.

Because the project is located in close proximity to the Warsaw Protected Landscape Area and a special bird protection zone under the Natura 2000 framework, it is of particular environmental significance. The area is characterized by high biodiversity and serves as an ecological corridor, supporting species migration, meaning that construction needed to take environmental concerns into account.



THE SOLUTION

As part of this modernization, a culvert was constructed in an area of particular environmental concern. Situated in the city center, within the Czerniakowski Port, located on the left bank of the Vistula River, the facility was developed as an underpass to facilitate the transportation of canoes and small boats between the storage hangar and the Czerniakowski Port pier. This infrastructure improvement enhances water traffic operations and ensures accessibility for individuals with limited mobility.

The ViaCon culvert solution contributes to the modernization and sustainability of the Czerniakowski Port while preserving its ecological and recreational value.

THE ADVANTAGE

The culvert project offered a number of benefits:

- Enhancement of pedestrian and bicycle traffic, fostering the development of the Czerniakowski Port
- Improved accessibility, particularly for individuals with limited mobility
- Strengthened integration of port infrastructure, facilitating more efficient utilization of sports and recreational facilities.
- Sustainable, environmentally friendly steel solution, contributing to circularity

SPECIFICATIONS

The culvert was constructed using ViaPlate® VP2-N7 technology, with the following specifications:

Span: 3.76m

Height: 2.65m

Bottom length: 18.5m

Top length: 9.3m

The structure has been internally protected with a 200 µm thick paint coating in RAL1013. Furthermore, to enhance its integration with the surrounding environment, a marine motif has been applied.

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