



Sacrow - Germany

Expansion of the Sacrow-Paretz Canal

Data and facts

Company

Type

Foundations

Runtime

02.2016 - 06.2016

Principal

WNA Berlin / ARGE Sacrow-Paretz Canal Batch 2

[Project report online](#)

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Development of the Sacrow-Paretz Canal

Development of the waterway section at the SPK and the mouth of the HvK will create the necessary preconditions for use of the waterways by ships rated 2,300 t – large inland freight vessels (GMS) and 3,600 t – pushing units (SV). Part of this measure is the creation of a holding point on the east bank at the mouth of the HvK (HvK km 33.96 to 34.18). This holding area will be made using a rear-anchored pile wall structure. We were commissioned to carry out the injection work.

The pile wall was anchored using 104 permanent strand anchors up to 30.5 m long in accordance with approval Z-34.11-224 Stump compact anchors for rock and soil as 4-strand anchors.

Suitability had to be proved at three structural anchors which were produced before the actual series production. Production and suitability testing were monitored by the Federal Institute for Waterways. The Technical University of Brandenburg in Cottbus served as an expert for the suitability testing. The monitoring efforts were necessary due to the foundation soil, which was critical in some areas.

A drilling procedure using external flushing could not be used due to the water-sensitive boulder clay. The twin-headed overlay technique with internal flushing, which goes easy on the foundation soil, was used. The internal rodding had to be operated with a back offset of at least 30 cm compared to the outer drill pipe. This guaranteed that the entire flushing water was pumped together with the drilled material within the external drill pipe without the foundation soil coming into contact with the flushing water.

The load-bearing capacity required could be proved at all anchors, and the work was concluded to the complete satisfaction of the client.

Impressions



Image notes

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Development of the Sacrow-Paretz Canal Batch 2

The anchors are manufactured.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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