

JET GROUTING – USING IT ON THE LIMITS AND MINIMIZING OF RESOURCES

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Abstract

Based on executed projects in Sweden and Scandinavia we will present solid concepts and technical details to apply jet grouting in an effective way beside the standard sealing of sheet piles. With those cases the possible minimization of utilized resources during different phases of the project will be shown. This includes the optimization of diameters and strength values.

The different projects are covering:

- Excavation support by combining different techniques;
- Underpinning within an infrastructure project for railway;
- Sealing works for shafts and retaining structures;
- Gravity wall system including technical water tight connection to the rock;

Next to design and details for the execution for the different stages, two different practical ways for backflow management and conditioning will be shown. With this the quantities to be transported to landfill can be reduced significantly.



Figure 1. Jet Grouting works – incl. backflow conditioning