

## Drilled piles

Drilled pile foundation with RSS® Flüssigboden in heterogeneous subsoils with peat and muddy grounds (gyttja)

### The challenge

The loads had to be transferred to deeper, load-bearing soil layers by means of drilled pile foundations. Peat and gyttja with no or poor load-bearing capacity were bypassed with piles. For pile foundations, piles are drilled into the subsoil until a sufficiently load-bearing soil layer is reached. The boreholes are filled with RSS® Flüssigboden. The loads of the supporting structure are then transferred on the one hand by the friction of the pile with the ground (sheath friction) and on the other hand by the tip pressure (bearing) of the piles.



Backfilling of drilled piles with RSS® Flüssigboden

### The solution

The holes were filled using the specified technology.

### Properties of RSS® Flüssigboden

- homogeneous and free of any tendency to segregation
- Diameter of flow 56-60 cm
- Strength and elasticity in the form of load-bearing capacity or unconfined compressive strength according to technical planning.



### Construction project

Lübeck, separation watering system

### Builder

Lübeck, separation watering system

### Construction works

Bergemann-Gräper mbH  
Co. KG, Lübeck

### Construction period

June 2011 - January 2013

### Technical planning

LOGIC Logistic  
Engineering GmbH

