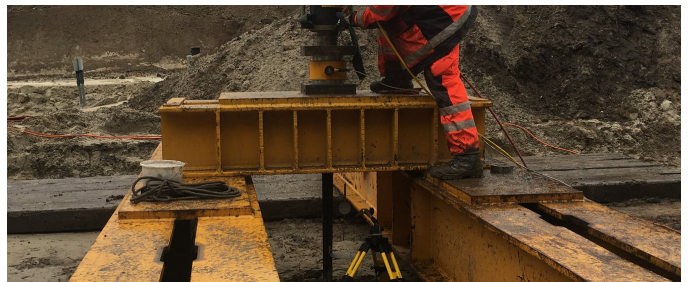


Zuidelijke Ringweg, Groningen



SHORT DESCRIPTION

The southern bypass of the Dutch city of Groningen is about twelve kilometers long. The contract for the expansion of the southern ring road was awarded to the consortium Combinatie Herepoort.

THE PROJECT

In some areas, the bypass road will be "lowered" and will run in a tunnel using a top-down construction. The tunnel is built under the protection of a trough excavation.

The securing of the sheet pile shoring was planned and implemented with double and triple staggered, semi-permanent strand anchors from the BBV-multibond® system.

Since almost all the multi-strand anchors have to be dismantled, the extraordinary load-bearing capacity and functionality of the following dismantlable BBV strand anchor systems was demonstrated in a large-scale test in advance of the construction project:

- BBV semiperm, removable PR
- BBV semiperm, removable CR
- BBV-multibond® semiperm, (2-bond) removable PR
- BBV-multibond® semiperm, (2-bond) removable CR
- BBV-multibond® semiperm, (3-bond) removable PR
- BBV-multibond® semiperm, (3-bond) removable CR

For the 3-way staggered multi-strand anchor system BBV-multibond® CR (3-bond) semi-permanent, L-19 (150mm², 1660/1860), a load-bearing capacity of 3,200 kN was proven in fine and medium sand. All support members (strands) of the anchor system were removed again over their entire length!

SERVICES IN DETAIL

Procedure:

approx. 2500 pieces:

- BBV semiperm, removable PR
- BBV semiperm, removable CR
- BBV-multibond® semiperm, (2-bond) removable PR
- BBV-multibond® semiperm, (2-bond) removable CR
- BBV-multibond® semiperm, (3-bond) removable PR
- BBV- micropile S670 Dia75mm

FACTS

Location	Groningen , Netherlands
Status	Under construction
Start of construction	January 2019
Completion	December 2024
Building owner	Ministerium für Infrastruktur und Umwelt, Niederlande
Contracting entity	Combinatie Herepoort
Planning	ConGeo b.v.

SERVICE PROVIDED

Excavation pits

Tunnelling



<https://www.bbv-systems.com/en/projects/detail/ref/zuidelijke-ringweg-groningen/>

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