

The Multi Service Group.

## Dyke-Rehabilitation Emmerich Lot 6

Emmerich, Germany



The existing flood protection systems of the city Emmerich were constructed in the years 1963 to 1967. Recent investigations revealed an insufficient protection according modern stability requirements.

During the rehabilitation works, Bilfinger Berger Spezialtiefbau GmbH received the contract to install a solid protection with elevation of +17.50 m and removable elements which will further raise the protection level to +18.84 m (HWL of 1977).

The existing embankment received an additional cut-off slurry wall with embedded sheet pile wall. Driven sheet pile installation was not considered due to adjacent residential developments. The slurry wall as well as the bored pile retaining wall were tied back by permanent single rod anchors (GEWI). All anchors had to be installed from special designed hanging equipment due to insufficient working space ahead of the retaining wall.

### Quantities:

7,200 m<sup>2</sup> Cut-Off Slurry Wall (D=60cm) with embedded Sheets

450 m<sup>2</sup> Bored Pile Wall (D=90cm)

469 Nos. Single Rod Anchor (D=40mm, L=15-19m)

8 Nos. Single Bored Piles (D=90cm)

### Contract Value (net):

3.58 Mio EURO

### Construction Period:

04/2004 – 05/2005

### Client:

Deichschau Emmerich  
Germany

### Services:

Cut-Off Slurry Wall  
Bored Pile Wall  
Single Bored Piles  
Anchor

### Contact:

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