Job Report

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HBR 605

Abb. 1

The Project

Contractor::	Neidhardt Grundbau GmbH Hamburg, Deutschland
Master of Works:	Commune Odense (DK)
Location:	Odense, DK
Project description:	Harbour Quay Wall Renovation in Odense, Denmark Harbour sheet pile anchoring in Odense Harbour with GEWI- bar anchors
Equipment:	Hütte HBR 605
Geology:	Peat, Clay
Production:	Rotary percussive drilling GEWI- bar anchors, Ø 57,5 mm, St 670/800, with 2 secondary injections / 45 pcs. inclined at 30° to horizontal axis / 20 m length / Service Load = 695 kN, Test Load = 973 kN

Job Description

In the course of renovation activities in the harbor of Odense, a stretch of ca. 135 m long quay wall had to undergo reconstruction. A new harbor sheet pile wall was installed about 1 m parallel to the old quay facility on the waterside. This endeavour required 45 pcs. tie-back anchors to secure the new quay wall (see Image 2).

One specialty of this project was that all anchor production took place from tidal waters. Adjusting to the constantly changing heights demanded special expertise (see Image 1).

A number of old wood piles, on top of which the existing quay facility was founded, had to be perforated in the course of production. Despite these obstacles we were able to realize all anchorings with limited additional effort while keeping disruption to a minimum. In order to avoid oversize transportation cost, we decided to couple our anchor bars to reach the total anchor length of 20 m employing special coupling devices with added protection against decoupling in the course of production activities.

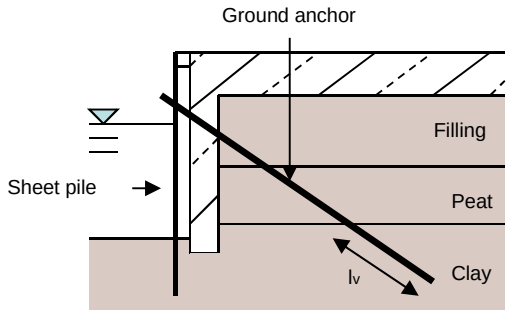

Image 2

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