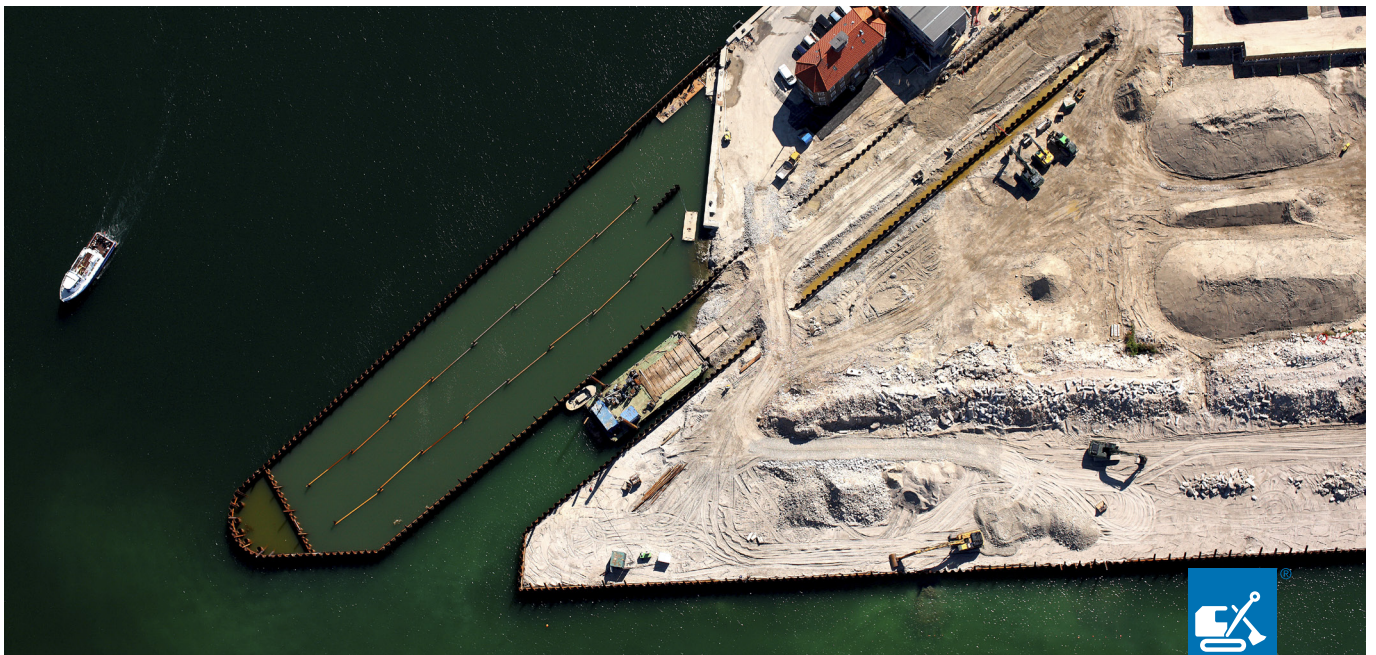


# Land development work at the Marble Pier in Copenhagen

New attractive quarter in Copenhagen



**AARSLEFF**

Till 2016, the Free Port area The Marble Pier in Copenhagen will be transformed from old quay structures into two islands with housing areas, commercial areas, a hotel as well as the new UN headquarters for Northern Europe. The area will be transformed to give future residents, employees and visitors direct access to the water. In connection with the development of the Marble Pier, Aarsleff carries out the land development work as well as the quay structures.

## **New quay structures**

We started by demolishing the old quay structures to prepare the Marble Pier for the new quay structures. With Tscherning A/S as subcontractor, we carried out the demolition both from land and from sea. In 2010, Aarsleff installed approx. 1,100 running metres of AZ-20/28 profiles in lengths of up to 16 metres for the new quay structures. In 2011, we will install 290

running metres of AZ14-700R/24 profiles which will be anchored with permanent soil anchors. Our own pontoon, Jack V, is assisting on the work from the sea while we carry out the stone and marine work, including inlet and outlet structures.

## **Handling of contaminated soil**

The earthwork comprised pumping-in of 35,000 cubic metres of sand. In addition, we handled nearly 30,000 cubic metres of slightly contaminated soil which was re-incorporated where possible. The highly contaminated soil was approved for disposal. The land development work was completed in 2010, and subsequently, we started working on the UN City. The UN City is a trade contract to be carried out for the turnkey contractor Pihl. The contract comprises excavation of nearly 28,000 cubic metres of soil, groundwater lowering with 33 bleeding wells, pile driving of 1,400 30 x 30 reinforced concrete

piles of up to 15 metres, 146 uplift anchors and backfilling around basement and sewer. We started in November 2010 and expect to complete our work in August 2011.

## **Working on and off**

The site development work is to fit into the general development of the Marble Pier, and when we complete our work continuously, other contractors take over. Some of our subwork is put on standby, for example while we await the moving out from the UNICEF warehouse which means that all our work is to be carried out in stages adapted to the development of the Marble Pier during the period until 2016. In 2012, we will start demolishing the UNICEF warehouse paving the way for the new road, the first island with housing area and the hotel.



**AARSLEFF**



**Per Aarsleff A/S**  
**Main office**  
Lokesvej 15  
DK-8230 Aabyhoej  
Denmark

Tel +45 8744 2222  
Fax +45 8744 2249

**Copenhagen office**  
Industriholmen 2  
DK-2650 Hvidovre  
Denmark

Tel +45 3679 3333  
Fax +45 3679 3300

**Data**

- 2,200 tons of sheet piles
- 1,100 m of AZ 20/28 profiles in lengths of up to 16 metres
- 35,000 m<sup>3</sup> supply and incorporation of sand for the stone work
- 30,000 tons of transport and disposal of class 4 soil.

**Client**

The land development company By & Havn og Nordkranen

**Type of contract**

Turnkey contract

**Contractor**

Aarsleff, Construction and Piling

**Consulting engineer**

NIRAS A/S  
Schønher

**Construction period**

March 2010-September 2016

**Contract value**

DKK 218 million

**Contact**

Construction and Piling  
Estimation & Tender  
kalkulation@arsleff.com  
Tel +45 8744 2222

ANLÆG-153UK-rev.2