

Euromax Container Terminal Quay Wall in Rotterdam

Client: Havenbedrijf Rotterdam N.V.
Design: BAM Infraconsult
Construction: BAM Civiel bv
Contract price: € 62.000.000
Contact: (0182) 59 06 00 / info@bamciviel.nl / www.bamciviel.nl



BAM Civiel

In 2007, BAM Civiel completed the quay for the new Euromax container terminal in the Rotterdam harbour. The quay is 1,980 metres long and is located at the Yangtzehaven on the Maasvlakte. It was a premiere: the Netherlands' very first diaphragm wall sea quay. With a view to the durability requirement of the quay, Havenbedrijf Rotterdam appealed to the innovative powers of the market. With the help of engineering firm BAM Infraconsult, BAM Civiel won the contract. The resulting design for the construction of a diaphragm quay wall specifically took into consideration its maintenance. Extra-thick reinforcement coverage keeps the wall intact. Moreover, the relieving floor is equipped with a high-quality drainage system.

The work in Rotterdam harbour started in May 2005. The quay was built entirely in a dry construction pit and then dredged. First of all, BAM Groundtechnique constructed a diaphragm wall reaching a depth of forty metres. Over 1,400 vibro-piles and over 350 MV tension piles with lengths of up to 57 metres were used to give the wall the required stability. The quay was completed with a relieving floor and a front wall that were poured in a single run. BAM Civiel was bound to a tight schedule: the first 300 metres needed to be completed within a year. And, entirely according to schedule, every week another 37,5 metres were finished. In July of 2007, the 1,980-metre quay was ready, providing Rotterdam harbour with another high-quality container transshipment site.