

Monitoring Botlek railway tunnel

Botlek, Rotterdam, The Netherlands



Subject: Dynamic measuring ring in the Botlek railway tunnel
Project reference: N00812000
Location: Botlek, Rotterdam, The Netherlands
Client: Centre for Subterranean Construction (COB),
Commission F320
Client type: Institute
Period: 2002-2003
Turnover:

The COB, commission F320, commissioned Fugro to install instrumentation to measure the dynamic impact in and around the tunnel

Fugro designed a housing, in which 3 accelerometers were installed, measuring the X, Y and Z direction. Seven such housings were installed on one tunnel-ring. In addition three concrete piles were installed at ground level at three different distances from the tunnel. These piles were also equipped with accelerometers. Vibrations will be recorded during the passage of trains after the tunnel is commissioned.

