

MONITORING OF THE SUURHOFF RAILWAY BRIDGE

Inventec has been commissioned by Arcadis to carry out a monitoring campaign on the Suurhoff railway bridge at the Maasvlakte in Rotterdam. Asset owner Prorail wishes to evaluate the structural integrity of the bridge and hence to determine its remaining technical life expectancy.

The monitoring system is composed of 26 wireless tilt sensors that will monitor the structural behaviour of the bridge piers for a period of two years. The sensors will be interrogated with a frequency of once per hour. During a number of train passages the measurements will take place with an increased frequency of 10 Hz. The measurement data are presented online in real time. The monitoring system will be in operation until the end of 2020.

