



SIKA AT WORK

RECONSTRUCTION OF THE TRAM ROUTE FROM THE LECHA ESTATE TO THE ŻĘGRZE ROUNDABOUT, POZNAŃ

SIKA TECHNOLOGY: railfixing: Icosit® KC system,
vibro-insulating mats: Sylomer MFSTP

BUILDING TRUST



RECONSTRUCTION OF TRAM ROUTE LEADING TO THE NEWLY CONSTRUCTED TRAM LOOP

The reconstruction of the 3 km long tram route from **THE LECHA ESTATE TO THE ŻĘGRZE ROUNDABOUT** is one of the stages of the reconstruction of the tram route from Kórnicka Street to the Żegrze roundabout, along with the construction of a new section of the route along Unii Lubelskiej Street ending with a new tram and bus terminus.

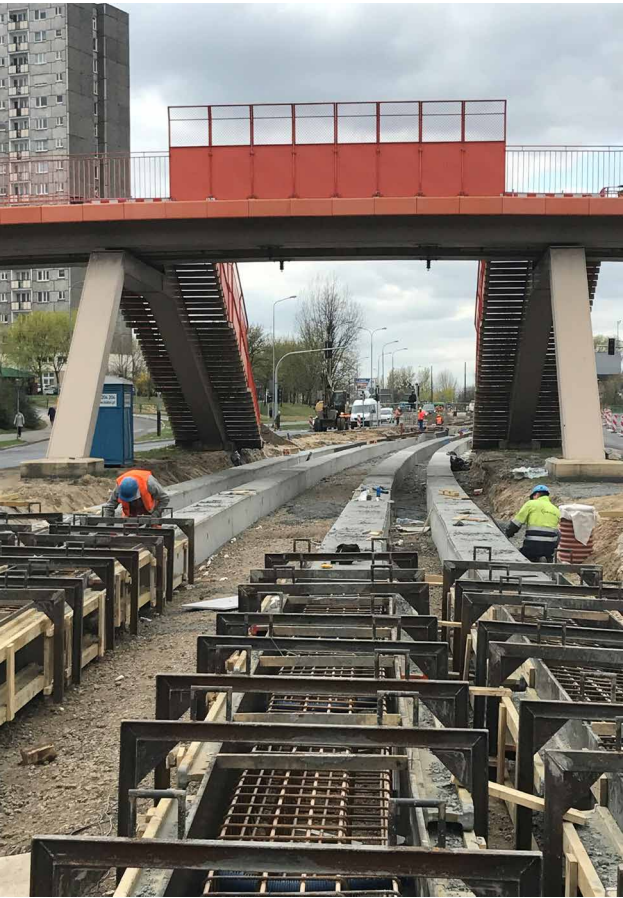
The main assumption of the project is to execute the track and the accompanying technical infrastructure with consideration of modern technological solutions, including requirements of acoustic protection, i.e. the use of technologies limiting vibrations and noise, passenger comfort, access to passenger information provided in real time and the investor's expectations regarding the durability of solutions and low operating costs.

One of the objectives of the project is to improve the communication efficiency of the tram system so as to increase its competitiveness in relation to journeys carried out by means of individual transport.

Source: www.ztm.poznan.pl

PROJECT REQUIREMENTS

Reconstruction of the 3 km long tram track structure on the section from the Lecha estate to the Żegrze roundabout, involved the construction of a new tram track in the structure of a prefabricated longitudinal beam with an elastic fixed rail. A continuous rail fastening system was used along the entire length of the renovated section, and some slabs were placed on vibro-insulating polyurethane mats.



ICOSIT® KC SYSTEM AND VIBRO-INSULATING MATS - NOISE REDUCTION SOLUTION

SIKA SOLUTIONS

Some of the reinforced concrete slabs of tram tracks were laid on **Sylomer® MFSTP** vibro-insulating mats, which provided protection against vibrations and secondary noise. The rails in the rail trays in the prefabricated slabs were fixed in a continuous system with **Icosit® KC 340/45**.

Icosit® KC 340/45 is a flexible polyurethane-based material with high resilience, characterized by excellent insulation properties, eliminating the formation of stray currents and thus corrosion of nearby steel components. **Icosit® KC 340/45** reduces secondary noise and vibration. It is intended for both manual and machine application. **Icosit® KC-330 Primer**, one-component, ready-to-use, self-curing polyurethane primer was used to prepare the substrates and improve adhesion.





PROJECT PARTICIPANTS

Owner: ZTM Poznań

Investor: Poznańskie Inwestycje Miejskie Sp. z o. o.

Project: Office of Transportation Projects Poznań/CONE Warsaw

General contractor: ZUE S.A. Cracow

Sika Poland: Bartosz Gądecki

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