



# SIKA AT WORK

## REBUILDING OF TRAM ROAD, SW. MARCIN STREET IN POZNAN

SIKA TECHNOLOGY: Icosit® KC, Sika® FastFix-132

BUDUJĄCE ROZWIĄZANIA



# TRACK REVITALIZATION - MODERN TRAM INFRASTRUCTURE IN THE CITY CENTER

**REBUILDING OF THE TRAM ROUTE ON THE STREET ŚW. MARCIN IN POZNAN** is one of the stages in the Project Center - the largest revitalization project conducted in Poznan. The main goal of the project is to obtain a coherent development concept of public space the city center. The task that architects have been given, was to solve communication problems in the best possible way (including calming the traffic) and spatial issues, optimally combining the functional and aesthetic aspects of space, which will be a vibrant showcase of the city.

Stage I of the investment includes reconstruction of Św. Marcin street on the section from Gwarna to Ratajczaka street and assumes the arrangement of space and calming the car traffic. As part of the project, the tram network will be modernized, also narrowing of the roadway and widening of pavements will be performed. A calm car traffic zone will be implemented and new bicycle paths will be created. The project also involves the implementation of more green spaces. As a result, Św. Marcin street will become a wide, modern walking alley, friendly for pedestrian, meeting and relaxation.

Source: [www.projektcentrum.pl](http://www.projektcentrum.pl)

## DESIGN REQUIREMENTS

Reconstruction of the tram route has included the construction of a tram track on a reinforced concrete slab (with a vibration isolation mat under the slab). The rails were fixed in the ERS system in a steel trough connected to the reinforced concrete slab. The space between the rails was filled with a paving block laid on a mineral mortar. The applied technology of fastening the rail in the Embedded Rail System (ERS) allows for the implementation of a low track structure ensuring its operational durability and durability as well as reducing vibrations and the impact of tram traffic on the environment. This solution ensures good electrical insulation of the rails and limiting maintenance work.



# SIKA® FASTFIX-132 - FAST CURING MORTAR FOR PAVING STONES

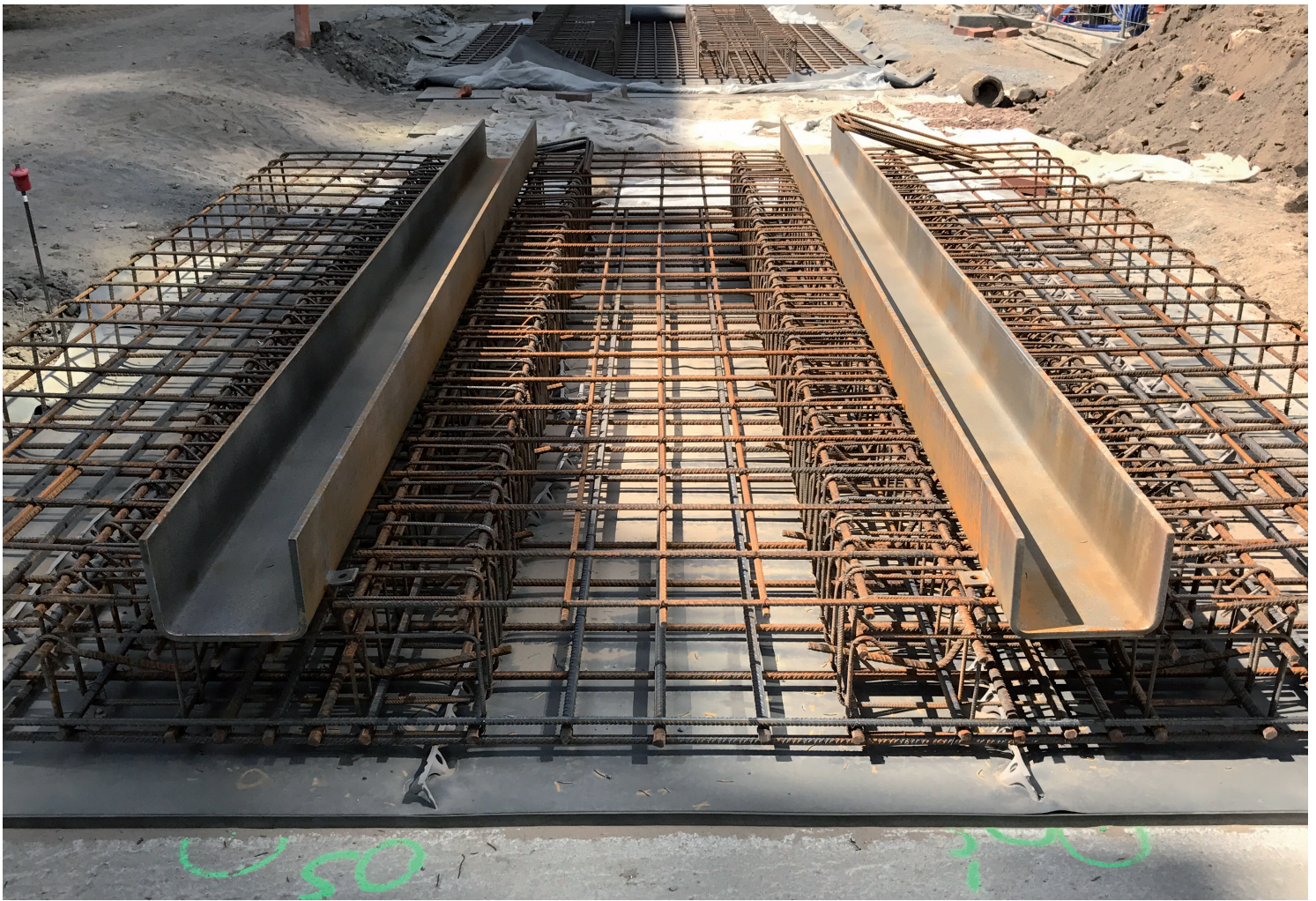
## SIKA SOLUTIONS

The reinforced concrete slabs of the tracks were made on Sylomer® MFSTP vibro-insulating mats providing protection against vibrations and secondary noise. The rails in steel troughs were fixed in a continuous system using **Icosit® KC 340/45** material intended for both manual and machine application.

**Icosit® KC 340/45** is a flexible, polyurethane based material with high elastic recovery, characterized by excellent insulation properties, eliminating the creation of stray currents and thus corrosion of steel components in the vicinity.

The paving stones filling the space between the rails were laid on the **Sika® FastFix-132** mortar, single-component, pre-prepared mineral mortar with high strength and fast curing with minimized shrinkage due to controlled expansion.





#### PARTICIPANTS OF THE PROJECT

**Owner:** ZTM Poznań (Zarząd Transportu Miejskiego Poznań)

**Investor:** PiM (Poznań City Investment)

**Project:** Studio ADS / DAP-MED Projekt

**General contractor:** BUDIMEX S.A.

**Subcontractor:** TOR-MEL Poznań

**Sika Poland:** Bartosz Gadecki

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