

Reconstruction of the sewage system

Wilkowice

Construction of a sewage system in the Wilkowice Commune in designated areas of the agglomeration - stage 1 - districts A, B, C, G, H, K, L in the villages of Bystra, Meszna and Wilkowice, with a total length of 33,631.1 m, along with reconstruction of the surface after works.



The project

Evaluation of vibrations transmitted to the structure of residential buildings located in the vicinity of road reconstruction works during construction of a sewer network.

The challenge

Measurement and evaluation of harmful dynamic effects during pavement restoration works. Construction works were conducted using a grader and vibratory roller.

The solution

A PROFOUND triaxial VIBRA type geophone was used to measure the vibrations. During the measurements, the values of the speed of wave propagation were observed in 15 s intervals. The inspection included a comparison of the recorded vibration level with the permissible values specified in DIN 4150-3 and professional assistance in optimizing the operation of vibration-inducing equipment in such a way as to minimize the impact of vibrations on adjacent buildings.

Project facts

Owner(s)

Commune Wilkowice

Keller business unit(s)

GEO Instruments Polska

Main contractor(s)

INSTALBUD

Services

Environmental monitoring

Markets

Buildings

Infrastructure

Technologies

Vibration and noise monitors