

# SUCCESS STORY

# RAILWAYS

# Nieuwegein, Netherlands

## **PROJECT DATA**

#### **Brief description**

Implementation of a mass-spring-system, two-layer installation, switch complex, as vibration protection for a noise-sensitive residential area close to tram traffic.

### Requirement

The intention is to isolate future high-rise buildings from vibrations caused by passing trains travelling over this switch complex.

City, year Nieuwegein, 2022

## **PROJECT DESCRIPTION**

The realisation of the project includes the construction of about 2000 new flats, a tram and bus stop, space for gastronomy, new walking and cycling paths and many intelligent green and sustainable solutions. This will make the city healthier, livelier, greener and more sustainable. To protect the surrounding area from vibrations caused by tram traffic, Calenberg's USM 1000 W mass-spring-system was used, with a natural frequency of 11 Hz.

# SOLUTION

To protect the noise-sensitive residential complex from structureborne noise emissions and vibrations, the durable and maintenance-free USM 1000 W mass-spring-system from Calenberg was installed over an area of 500 sqm. The two-layer installation of the mass-spring-system easily meets the specifications and provides optimal protection.



