

# SUCCESS STORY

## VIBRATION ISOLATION

## Building project Bayerstraße, Munich

### PROJECT DATA

#### Brief description

A new office and commercial building with underground car park is being built in the immediate vicinity of Munich's main railway station. Completion is planned for 2025.

#### Requirement

Protection against vibrations and secondary airborne noise caused by subway and tram traffic must be considered for the new building.

#### City, year

Munich, 2022

### PROJECT DESCRIPTION

Since Q4 in 2022, an office and commercial building has been under construction on the site at the corner of Bayerstraße and Schillerstraße. Underneath the building, the U1/U2 underground line runs parallel to Schillerstraße as well as the U4/U5 under Bayerstraße. The new building will be founded considerably deeper and thus move much closer to the underground tunnel tubes. Furthermore, several tram lines still run in Bayerstraße. From the forecasts and assessments based on on-site measurements and structural dynamic building modelling, an elastic bearing was dimensioned for the building to protect it from vibrations and structure-borne sound waves – or immissions.

### SOLUTION

Calenberg Cisador® series and Cimax® are fully area laid under the base plate. On the basement wall, the Calenberg Cisador® series and Ciflex R25 are used for partial areas.



Visualisierung: ©nuur, Essen

