

# SUCCESS STORY

## STATIC SUPPORT FOR BUILDINGS

## SAP Garden Munich, Germany

### PROJECT DATA

#### Brief description

Static support of a six-storey multifunctional sports arena in the Olympic Park in Munich to guarantee permanent safety and stability for the highly stressed components.

#### Requirement

- Support of the walls and grandstand constructions
- Absorption of displacements of  $\pm 30$  mm as a result of load effects due to public traffic with simultaneous centred load transfer to adjacent substructure
- Compensate for unevenness due to component tolerances

#### Country, year

Munich, 2022

### PROJECT DESCRIPTION

The SAP Garden is a six-storey multi-purpose hall with a  $\approx 70,000$  m<sup>2</sup> gross floor area that is being built on the site of the Olympic cycling stadium in Munich's Olympic Park, which was demolished in 2015. It is expected to be operational from 2024 and will seat up to 12,500 visitors. The ice hockey club EHC Red Bull München (DEL) and the basketball team of FC Bayern München (BBL) are to play their home games in the hall. Elastomeric bearings from Calenberg were used to meet the specified requirements for permanent positional safety and stability.

### SOLUTION

For the grandstand support, the building authority-approved Compact Bearing S 65 was used in various thicknesses between 10 and 30 mm. Fire protection requirements were met by Ciflamon embedding. In structural components relevant for shear deformation, the Calenberg Civalit® sliding bearing was installed for the planned absorption of displacements. Thus, component displacements of up to 30 mm can be absorbed.

