

## Technisches Rathaus Mannheim



### SHORT DESCRIPTION

Construction of the excavation pit and driven pile foundation for the new building of the Technical Town Hall in Mannheim.

### THE PROJECT

The enclosure of the excavation pit was carried out by means of a single-layer tie-back beam shoring with timber and shotcrete infill. The girders were inserted into the ground by means of a Kelly borehole after prior exploration for explosive ordnance. Subsequently, the space between the girders was filled with wooden planks down to a depth of 1.50 m below ground level. The area below the 1.50 m to excavation base (approx. 4.50 m below ground level) was secured with a shotcrete shell. The shoring was anchored back with a layer of grouted anchors, each with 2 to 4 strands.

The foundation for the later structure was made by means of 635 prefabricated reinforced concrete piles driven up to 18.00 m deep into the Mannheim subsoil. The majority of these piles were driven at an angle to form 3 and 4 pile trestles. Here, too, an explosive ordnance probe was first carried out.

In addition, four foundation piles for a revolving tower crane were driven using the Kelly drilling method.

### FACTS

<b>Location</b>	Glücksteinallee 11, Mannheim, Germany
<b>Status</b>	completed

**Construction volume** 1.557 M EUR

**(value of our services)**

**Start of construction** July 2018

**Completion** November 2018

## SERVICES

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Special Foundations



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<https://implenia.com/en/references/detail/ref/mannheim-technical-town-hall/>

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