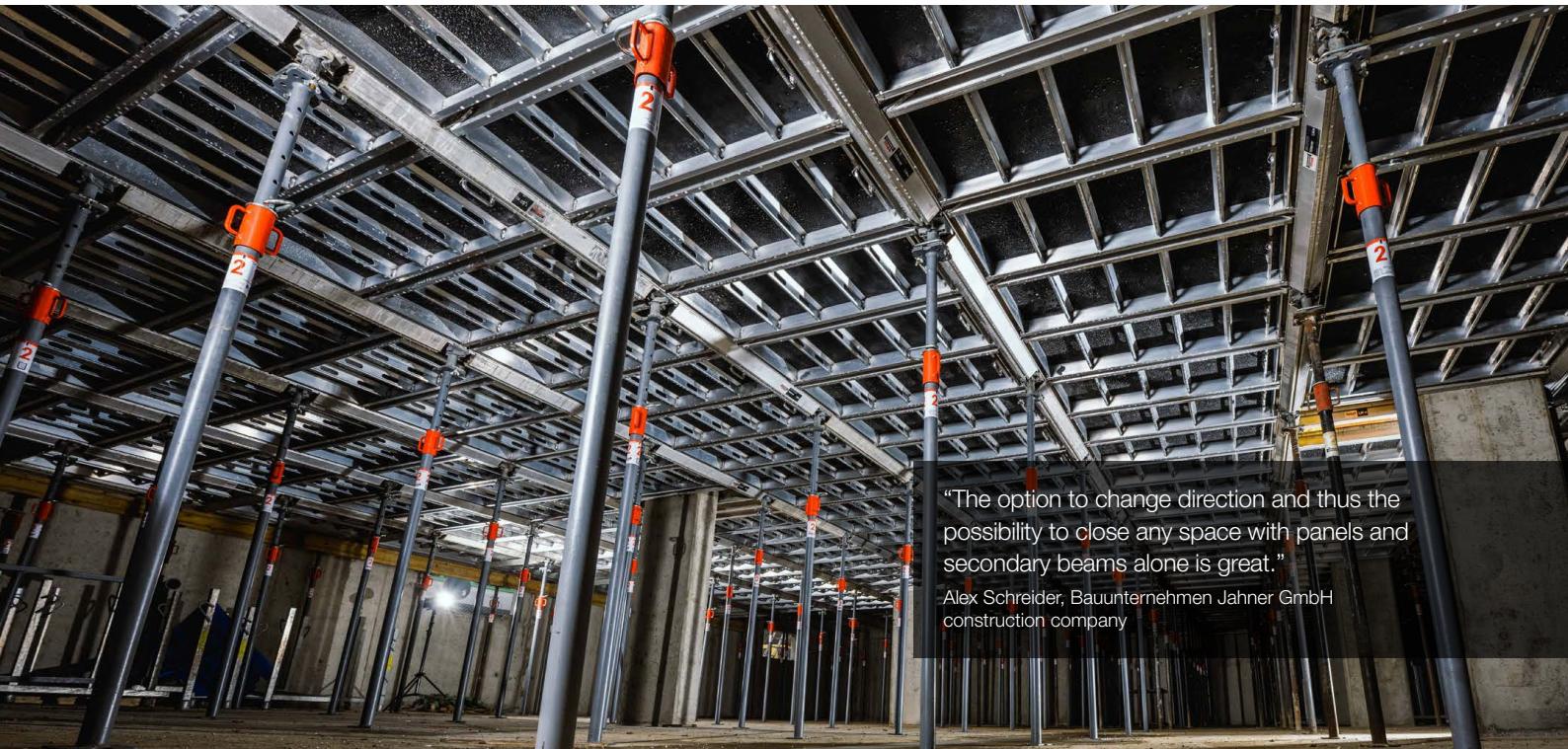


Underground Car Park Ceiling: Innovative Slab Forming System in Ulm

Efficient solution with the TITAN HV aluminium slab forming system and the new HV 150 combi panel



"The option to change direction and thus the possibility to close any space with panels and secondary beams alone is great."

Alex Schreider, Bauunternehmen Jahner GmbH
construction company

The Baden-Württemberg city of Ulm is growing – as is the demand for modern living space. This development is particularly evident in the district of Kuhberg. Along the Multscher Strasse, a modern multi-family house with 36 residential units and an underground car park is being built and is ideally integrated with city life.

The challenge

The biggest challenge in this construction project was the production of the 40 cm thick ceiling above the underground car park. The height clearance of only 2.40 m provided limited space for auxiliary scaffolding, which was why a complete installation of the slab forming system was only possible from below. At the same time, the large ceiling area needed to be encased quickly, safely and flexibly, whilst taking into account different spatial geometries.

The solution

The TITAN HV aluminium slab forming system was used, allowing the complete installation from below. It adapts flexibly to room length and width, spatial angle and obstacles with only a few components in

the system. A total of around 700 m² of the slab forming system was used with the TITAN HV 150 combi panels.

The new TITAN HV 150 combi panel is suitable for ceiling thickness up to 50 cm and is impressive with its particularly user-friendly handling. Despite the large forming area and low deflection, the weight of the panel still allows for a less physically demanding way of working, enabling one person to carry out the forming. The panel can be fitted from below. To achieve this, the panel is "pressed" from below through the two main beams by means of a pivot bearing, which means that the installation in the underground car park could be carried out without additional auxiliary scaffolding.

The ease of handling and fast setup and dismantling resulted in an efficient construction process and a high degree of safety. The requirements of the construction project were fully met, as were the applicable DGUV safety regulations.

Project:

New multi-family house with 36 residential units, Multscherstrasse (Kuhberg), Ulm, Germany

Implementation:

08/24 - 08/2025
(completion of shell construction)

Client:

Multscherstrasse
Real Estate Company

Contractor:

Bauunternehmen Jahner GmbH,
Lonsee

Products used:

- TITAN HV aluminium slab forming system
- TITAN HV combi panel, approx. 700 units
- TITAN S steel props, Size 2



View of the TITAN HV aluminium slab forming system with TITAN HV 150 combi panels installed from below



The TITAN HV aluminium slab forming system adapts flexibly to obstacles such as pillars



The size 2 TITAN S steel props have an extension length of 1.80 to 3.00 m



The drophead system allows early removal without relieving the props

Would you like to find out more about TITAN formwork systems?

We would be happy to advise you about your project. Simply get in touch with us. We look forward to hearing from you.