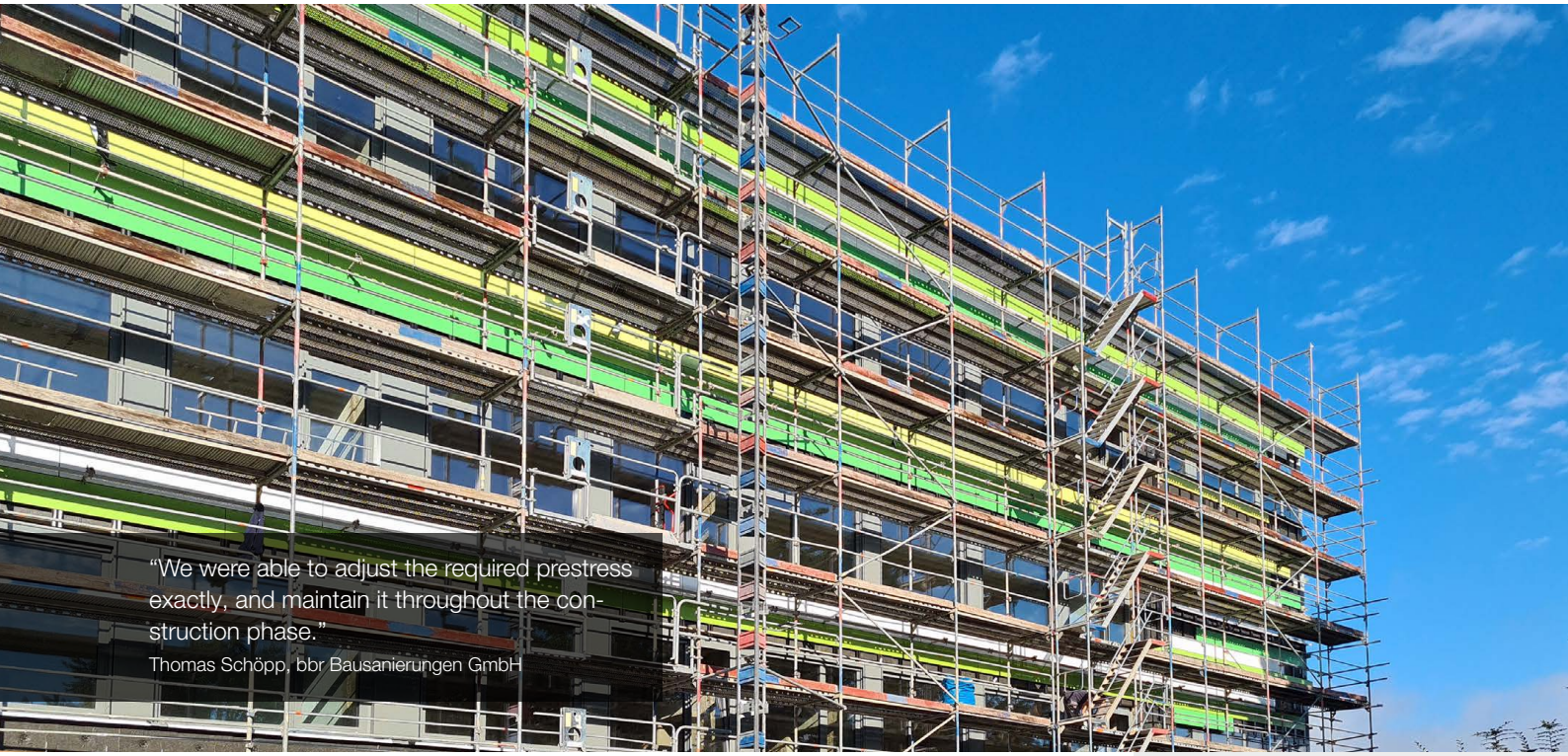
JOB REPORT

Work in Existing Buildings: Controlled Support for New Facades

Facade refurbishment with TITAN SLS heavy-duty prop



St Ingbert is the fifth largest town in Saarland/Germany and just a short drive away from Saarbrücken. The medium-sized town has all kinds of schools, including the Schmelzerwaldschule. Work on economic and sustainable total refurbishment began back in autumn 2021, with a particular focus on refurbishing the concrete.

The challenge

Refurbishment of the Schmelzerwaldschule was very complicated, both in terms of planning and with regard to structural issues. All the facades of the school building were refurbished in three phases, with numerous glazing elements resulting in a modern appearance. However, the building’s previous concrete columns were no longer able to cope with the additional facade loads. They therefore had to be replaced in situ with a larger cross section to warrant higher load-carrying capacity.

The solution

FRIEDR. ISCHEBECK GmbH played a literally supportive role in selecting the auxiliary supports, and supplied more than 100 of the necessary heavy-duty props in accordance with the technical requirements. It was important for the props to be cost-effective, so that the contractor, bbr Bausanierungen GmbH from Eppelborn opted for TITAN SLS heavy-duty props to transfer the facade loads of up to 200 kN. Managing director Thomas Schöpp explains: “We were able to adjust the required prestress exactly and maintain it throughout the construction phase”. This was possible thanks to a pressure gauge fitted to the hydraulic jack which guaranteed full control and maximum safety. This system can be set for maximum loads of 250 kN. It is also straightforward and easy to use. The props are raised and lowered manually with a lever on each hydraulic jack. This is also confirmed by Thomas Schöpp: “It all worked quickly and easily without any problems”. The new concrete columns are now capable of assuming the loads from the facades of the Schmelzerwaldschule, and the TITAN SLS aluminium heavy-duty props are already being used in subsequent refurbishment projects.

Project:
Facade refurbishment at the Schmelzerwaldschule, St. Ingbert, Germany

Construction period:
September 2021 to March 2023

Planning:
Ing.-Büro Burger + Stolz, St. Ingbert

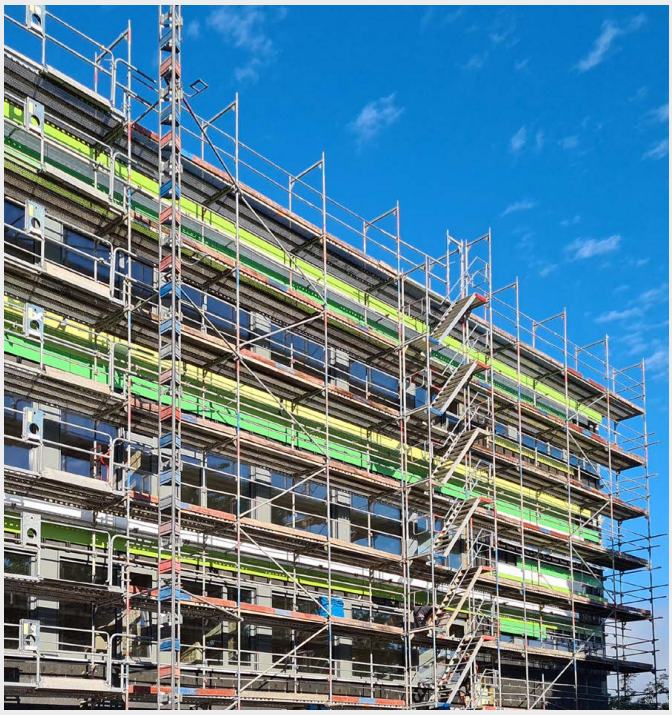
Site management:
BORAPA Ingenieurgesellschaft, Kaiserslautern

ISCHEBECK TITAN dealer:
HSB Schalung GmbH, Ensdorf

Contractor:
bbr Bausanierungen GmbH, Eppelborn

Products used:

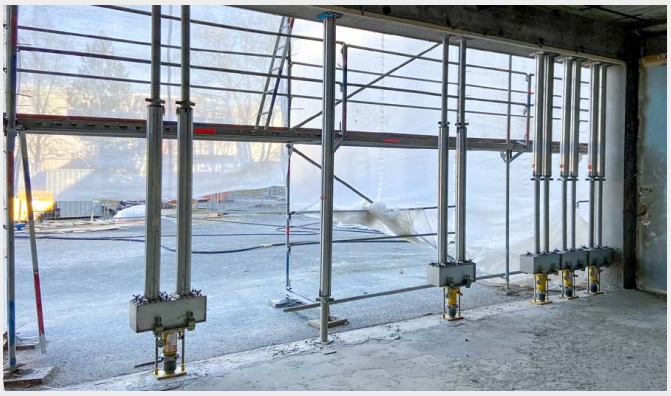
- TITAN SLS aluminium heavy-duty props
- Isoltaed adjustable aluminium legs size 2 and 4 for additional load transfer



TITAN SLS heavy-duty props support the edges of the building during refurbishment of the facades

The previous concrete columns were not able to cope with the loads from the new facades

TITAN SLS aluminium heavy-duty props allow for precise adjustment of the required prestress



The props are raised and lowered manually with a lever on each hydraulic jack

Would you like to find out more about TITAN SLS heavy duty props?
We would be happy to advise you about your project. Simply get in touch with us. We look forward to hearing from you.

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