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Reference

New LPME research building TU Kaiserslautern









SHORT DESCRIPTION

Construction of the LPME (Laboratory for Ultra-Precision and Micro-Engineering) research building of the Technical University of Kaiserslautern

THE PROJECT

The building to be constructed is a research building of the TU Kaiserslautern as a three-storey new building in solid construction. The main component of the building shell comprises the construction of two structures, in this case the laboratory building consisting of a precision measurement room with test bench, administration and office area and the directly adjoining covered delivery yard with gas cylinder storage in in-situ concrete construction.

SERVICES IN DETAIL

- Main building approx. 63 m x 49 m
- Delivery yard 14 m x 15 m
- Total height approx. 14 m
- 7,420 m^2 gross floor area with 6,470 m^2 useable area will be constructed, gross volume 37,300 m^3

- In-situ concrete approx. 6,800 m^3
- Reinforcing steel approx. 950 to
- Prestressing steel approx. 9 to
- Formwork slabs ca. 8,500 m^2
- Formwork walls ca. 8.975 m2
- Formwork for columns approx. 695 m^2

CHALLENGES

Short construction time, increased exposed concrete requirements for both normal concrete and coloured concrete in anthracite with smooth formlining and OSB panel formlining. Production of a prestressed in-situ concrete hollow core slab approx. 620 m^2. A test stand consisting of three special foundations is to be constructed. These foundations must be placed in a low-vibration, free-floating manner on pneumatically mounted spring cushions.

FACTS

Location	Kaiserslautern , Germany
Status	Under construction
Construction volume (value of our services)	4.58 M EUR
Start of construction	June 2020
Completion	March 2021
Building owner	Land Rheinland-Pfalz vertreten durch Ministerium der Finanzen, vertreten durch Landesbetrieb Liegenschafts- und Baubetreuung Niederlassung Kaiserslautern
Contracting entity	Land Rheinland-Pfalz vertreten durch Ministerium der Finanzen, vertreten durch Landesbetrieb Liegenschafts- und Baubetreuung Niederlassung Kaiserslautern
General management	Implenia Construction GmbH, NL Mitte, GS Mannheim, Bernd Grundel
Project management	Dipl.-Ing. Kai Schuster, Implenia Construction GmbH
Architect	Arge AV1 Architekten GmbH und ASPLAN
Construction management	Dipl.-Ing. Kai Schuster, Implenia Construction GmbH
Construction management	Dipl.-Ing. Kai Schuster, Implenia Construction GmbH

SERVICES

- Tesch
- Industrial construction
- Civil engineering
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- Infrastructure

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