

26.07.2021

Germany's first printed house officially opened

Weißenhorn/Beckum. Germany's first printed house is ready for occupancy. Today, the single-family house printed by PERI using a COBOD BOD2 printer was officially opened in Beckum, North Rhine-Westphalia, by Ina Scharrenbach, Minister for Home, Municipal Affairs, Construction and Equality of the State of North Rhine-Westphalia. The state of North Rhine-Westphalia subsidized the project as part of its "Innovative Building" funding program.

"The three Ds - digital, dynamic, print-ready - have been implemented in Beckum. With the first 3-D printed residential building in Germany, positive pressure is being generated in the construction industry: for innovative construction with new technologies, for greater attractiveness in construction professions and for modern architecture with new styles. Now we need to gain experience with the building and establish the manufacturing process on the market, because only more housing provides affordable rents," explains the Minister. "The pressure must not let up to constantly give new impetus to all those working in the construction industry with new projects."

"Together with our Danish technology partner COBOD, the PERI team has shown that 3D concrete printing technology is ready for the market. The project in Beckum is a milestone that has set many things in motion in the industry," said Thomas Imbacher, Board Member Innovation & Marketing of the PERI Group. "PERI has since printed the largest apartment building in Europe in Wallenhausen and the first residential building in Tempe (Arizona) in the USA. Much of what we learned in Beckum has been incorporated into these projects. The house in Beckum was the first of its kind and for PERI and all involved, this project will always remain something very special."

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The building was planned by MENSE-KORTE ingenieure+architekten.

"With the printed building in Beckum, we have very successfully demonstrated what is possible when people come together who believe unwaveringly in something and are prepared to do pioneering work for it, with all its ups and downs," says Waldemar Korte. "Building and planning as we have known it for centuries will change fundamentally in many areas and we are grateful to have made a decisive contribution to this with our printed house."

Printing started in Beckum on September 17, 2020, and the PERI 3D Construction Printing Team used a COBOD BOD2 concrete printer for the printing. This printing technology comes from the Danish manufacturer COBOD. PERI acquired a stake in COBOD back in 2018. As printing material, PERI used the printing mortar "i.tech 3D" from HeidelbergCement, the mixing technology came from m-tec mathis technik gmbh. The engineering office Schießl Gehlen Sodeikat provided support in the preparation of the approval. The planning and execution of the corresponding approval tests were carried out by the Centrum Baustoffe München of the Technical University of Munich.

About PERI:

With sales of € 1,503 million in 2020, PERI is one of the leading manufacturers and suppliers of formwork and scaffold systems in the world. The family-owned company, with its headquarters in Weissenhorn (Germany), a workforce of 9,400 employees, more than 60 subsidiaries and well over 160 warehouse locations, provides its clients with innovative system equipment and comprehensive services relating to all aspects of formwork and scaffolding technology.

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