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PERI prints first residential building in the USA

- **PERI and “Habitat for Humanity” realise fully approved 3D-printed house project in the USA**
- **Just under two weeks of total printing time for a detached house with 160 m² of living space**

Weissenhorn/Tempe (Arizona, USA). PERI prints the first residential building in the USA in Tempe (Arizona). After the first two printed residential buildings in Germany, which PERI realised at the end of 2020, this is another important step in the market development of this new technology for the Bavarian family-owned company. It is one of the first 3D-printed housing projects in the USA to date that has fully and successfully passed all regulatory approval processes.

PERI is printing a single-storey detached house with approx. 160 m² of living space in Tempe. The total printing time is estimated at around two weeks. According to current plans, the house will be ready for occupancy in August / September 2021.

PERI's client and partner in this project is the regional organisation of “Habitat for Humanity” in Arizona. “Habitat for Humanity” is a global non-profit organisation that uses donations, sponsors, and volunteers to create housing for people in need through regional organisations in more than 60 countries around the world.

“With this printing project in the USA, PERI is taking the next step in the market development of 3D printing technology”, says Thomas Imbacher, Board Member for Innovation & Marketing at the PERI Group. “As a pioneer of this new type of construction, PERI has printed the first houses in Germany. We are delighted to be delivering this first project in one of the largest housing markets in the world with a partner like Habitat for Humanity.”

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“The use of 3D printing technology is a tremendous opportunity for Habitat for Humanity”, said Jason Barlow, President and CEO of Habitat for Humanity Central Arizona. “The current housing problems in Arizona convincingly demonstrate the need for affordable home ownership. To solve the problems in a sustainable way, we need new ideas and methods to build adequate, affordable and more energy-efficient houses at lower costs, in less time and with less material consumption. The Tempe project is a forward-looking step for us.”

As with the successful printing projects in Beckum (North Rhine-Westphalia) and Wallenhausen (Bavaria), PERI is using the COBOD BOD2 gantry printer from the Danish manufacturer COBOD. PERI acquired a stake in COBOD back in 2018. The system has a print head that moves about 3 axes on a securely installed metallic frame. The benefit here is that the printer can move along its frame to any position within the construction and only needs to be calibrated once. This saves time and cuts costs.

During the printing process, the printer takes into account the pipes and connections for water, electricity, etc. that are to be laid at a later time. The BOD2 has been certified in such a way that it is possible to carry out work within the printing area while printing is in progress. This means that manual work, such as the installation of empty pipes and connections, can be easily integrated into the printing process.

Two operators are required to run the printer. The print head and the print results are monitored by a camera. With a speed of 1 m/s, the BOD2 is currently the fastest 3D construction printer available on the market. The BOD2 only takes around 5 minutes to complete 1 m² of a double-skin wall.

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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