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PERI and STRABAG print first building in Austria

Weißenhorn/Hausleiten. Austria's first 3D-printed building is being constructed in Hausleiten, Lower Austria. Construction technology group STRABAG, together with PERI, the formwork and scaffolding manufacturer and a pioneer in 3D concrete printing, is realising a roughly 125 m² office building next to its asphalt mixing plant in Hausleiten. The pure printing time for the building extension is approx. 45 hours. The special dry mortar for the construction 3D printing project "Tector Print", with long workability and good pumpability, is being supplied by Lafarge.

"3D construction printing brings an important innovation impulse for the construction industry and is an exciting addition to other construction methods. With this practical test, we want to further develop 3D construction printing together with our partners PERI and Lafarge. In Hausleiten, we were already able to achieve important findings for future use during the joint planning," says the STRABAG board member responsible for digitalization and innovation, Klemens Haselsteiner.

"At PERI, we see great potential in the still young technology of 3D construction printing. Just under a year ago, we printed Germany's first residential building with a BOD2 printer from our Danish partner COBOD. Now, together with our partners STRABAG and Lafarge, we are bringing this new form of construction to Austria and are delighted with the first

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printed office building in Hausleiten," says Thomas Imbacher, Chief Innovation & Marketing Officer at PERI AG.

PERI is using the COBOD BOD2 gantry printer for the printing project in Hausleiten. This printing technology comes from the Danish manufacturer COBOD, in which PERI has already been invested since 2018. With this technology, the print head moves over three axes on a permanently installed metal frame. The advantage: The printer can move to any position within the construction and only needs to be calibrated once.

With the printing project in Hausleiten, the PERI 3D construction printing team has successfully completed five printing projects in one year. The first ever printed house in Germany in Beckum, the first multi-family house and largest printed building in Europe (Wallenhausen), its first printed house in the USA (Tempe/Arizona), an apartment building extension in Lindau and now the project in Hausleiten. All of these projects are not research projects, but "real" houses that have gone through all the building code approval processes, are rented out and occupied, or in which people work.

About PERI:

With a turnover of € 1,503 million in 2020, PERI is internationally one of the largest manufacturers and suppliers of formwork and scaffolding systems. With around 9,400 employees, more than 60 subsidiaries and well over 160 warehouse locations, the family-owned company headquartered in Weissenhorn (Germany) serves its customers with innovative system equipment and comprehensive services for all aspects of formwork and scaffolding technology.

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STRABAG SE is a European-based technology partner for construction services, a leader in innovation and financial strength. Our services span all areas of the construction industry and cover the entire construction value chain. We create added value for our clients by our specialised entities integrating the most diverse services and assuming responsibility for them. We bring together people, materials and machinery at the right place and at the right time in order to realise even complex construction projects – on schedule, of the highest quality and at the best price. The hard work and dedication of our more than 75,000 employees allow us to generate an annual output volume of around € 16 billion. At the same time, a dense network of numerous subsidiaries in many European countries and on other continents is helping to expand our area of operation far beyond the borders of Austria and Germany. More information is available at www.strabag.com.

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