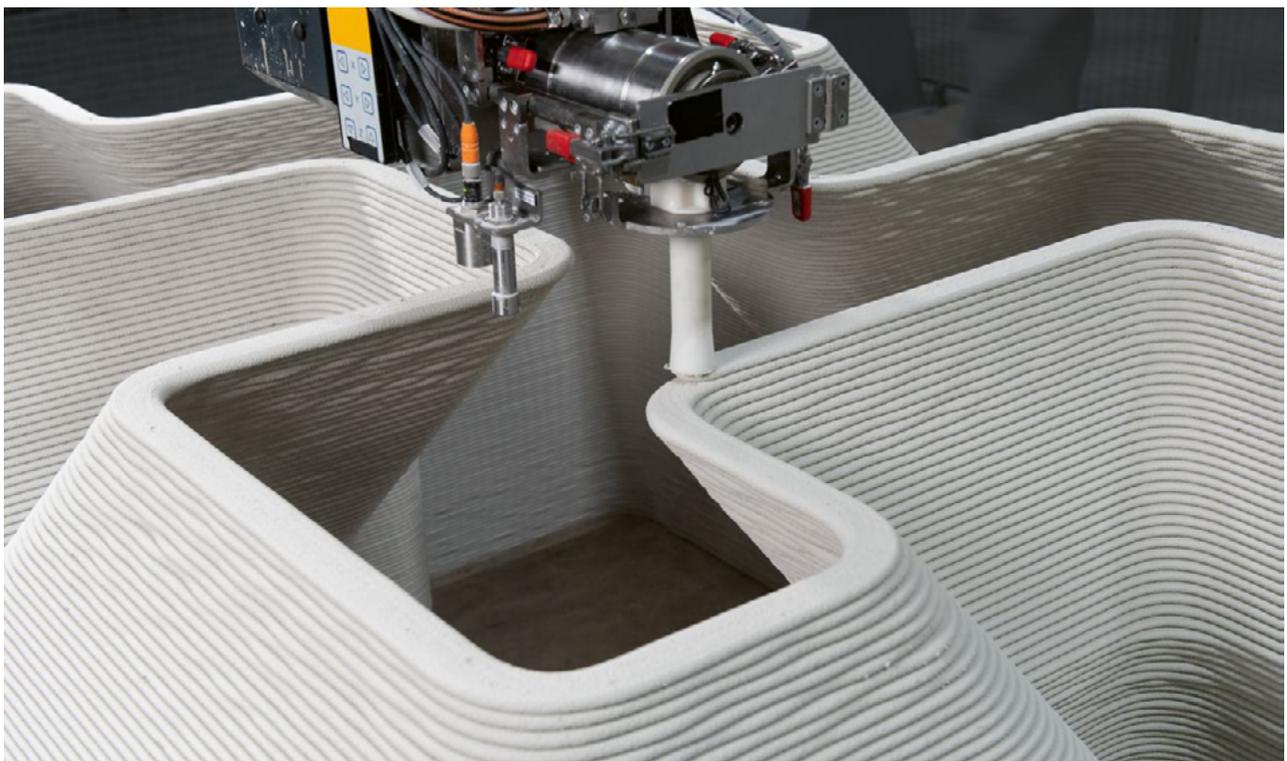


SIKANEWS

SIKA IS SHAPING THE FUTURE OF BUILDING

Modular construction and 3D concrete printing are radically changing the building industry, and innovative technologies put Sika at the cutting edge of both trends. Work is increasingly moving away from the construction site and onto the factory floor, highlighting the process of industrialization currently underway in the building trade.



In the patented print head developed by Sika for 3D concrete printing, the mortar is mixed with various additives. Within seconds it adheres to the previously applied concrete layer.

More and more components are being manufactured industrially under controlled conditions. Lindbäcks, a Europe-wide leader in modular residential construction, has made considerable headway in this direction, using industrial robots to assemble floors,

walls, and insulation materials fully automatically. For every step involved, Sika has the right solution, ranging from adhesives to fire protection agents. The gain in efficiency is especially significant with bathroom modules. Lindbäcks saves up to twelve

hours thanks to Sikaflex®, because the adhesive and sealant cure fast. Capable of increasing process efficiency, the new Curing-by-Design technology is also attracting a great deal of interest. Furthermore, Sika supplies watertight membranes for the bathroom modules and adhesives to reinforce the walls.

3D CONCRETE PRINTING ON AN INDUSTRIAL SCALE

Thanks to Sika's Digital Technology Unit, advances have been made in the digitalization and industrialization of concrete construction with 3D concrete printing. Using 3D mortar from Sika, the first printers are being deployed at partner companies to print industrial-scale concrete elements on the factory floor. The advantage of this is that components can be printed directly from a plan, eliminating the costly and time-consuming need to erect formwork. High-precision production allows for the integration of acoustic or other functions, opening up completely new design opportunities for architects.



In the Swedish city of Piteå, Lindbäcks is producing standardized components in Europe's most modern modular construction facility. Modular construction is frequently used in residential building.

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FURTHER INFORMATION

- [Sika's solutions for modular building](#)
- [Sika's solutions in 3D concrete printing](#)
- [Video
3D Concrete Printing – a new construction method](#)
- [Curing-by-Design Technology](#)