



SIKA AT WORK

3DCP COLUMNS FOR A NEW
COMMERCIAL BUILDING,
ROHRBACH, SWITZERLAND

CONCRETE: Sikacrete® 3D

BUILDING TRUST



NO MORE FORMWORK



PROJECT DESCRIPTION

The new garage construction consists 19 load-bearing columns which utilized the method of 3D concrete printing (3DCP) as opposed to using traditional formwork.

After placing, steel reinforcement cages were placed inside the 3DCP forms which were later filled with concrete to form a composite load bearing element.

Location: Rohrbach, Bern, Switzerland

Project year: 2021

PROJECT REQUIREMENTS

The project owner (Lanz Anliker AG) has its business in the technical textile industry and requested a surface texture like a textile fabric.

SIKA SOLUTIONS

Sika provided the 3D concrete printing material Sikacrete®-7100 3D to Affentranger Bau AG who printed the columns, using the Sika developed gantry printer.

The added value of using 3D concrete printing:

- Easily printed shapes in a form that would be expensive using traditional formwork
- Statically optimized column shape
- Alternative surface texture to smooth cast concrete
- Positioning of electrical sockets for plugs and charging points
- Amendments to the design can be implemented easily

PROJECT PARTICIPANTS

Owner: Lanz Anliker AG, Rohrbach
Architect: architektur bettler GmbH, Zell
Engineer: c+s ingenieure ag, Huttwil
Contractor + 3DCP: Affentranger Bau AG, Altbüron
www.affentranger3dcp.ch

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