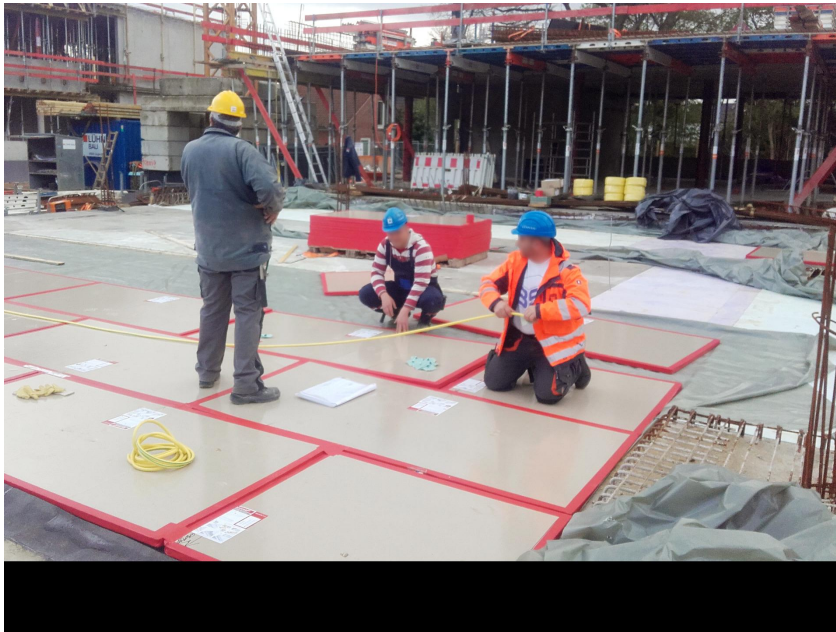


Niendorf District School

Hamburg, Germany



Type of building:
Education facility

Clients and Developers:
Schulbau Hamburg

Completion:
2017

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Void former Egccovoid® enables the construction of a new school building onto existing structures without load transfers.

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The school was fundamentally renovated and 29 new classrooms were built, along with new communal rooms and a school canteen. The project was funded by City of Hamburg which has provided around 18 million euros for this project.

The new school buildings were placed onto the existing cellar but the cellar had not been designed and built for the additional loads. Therefore, the new building has been placed upon additional foundations next to the cellar.

Egccovoid® void formers with hose system were placed inbetween the existing cellar ceiling and the foundation slab of the new building. When the foundation slab reached a sufficient compressive strength to bear itself freely above the cellar, our void formers were watered via the hose system. This created a load-free layer of approx. 3 cm, so that the new building can settle downwards without transferring loads on the existing cellar.

At this construction site, there was no space to protect the Egccovoid® slabs against damage during the construction phase with a blinding layer. The problem was solved with two layers of PE film, which were directly integrated and glued onto Egccovoid. In addition, more spacers have been installed than usual to prevent the spacers from pressing into the void formers.

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Products used:



Void former Egcovoid® - floor slab / foundation



Installation of the Egcovoid® void former
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