

# Elevated tank, Höchsten

Dortmund, Germany



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**In the new elevated tank in Höchsten, Dortmund the service life of the concrete has been provably increased with the water-deflecting Zemdrain® CPF liner.**

A new drinking water tank with a capacity of 7,500 cubic meters is being built in the south of Dortmund. The major construction project with a total budget of 4.5 million Euro was necessary because of the advancing age of the existing water tanks. The new building, scheduled for completion in 2013, would restore the high quality and reliability of the Dortmund water supply.

After the extensive construction pit excavation, a 40 cm thick floor slab was concreted. More than half of the building is underground and despite its considerable size the tank is barely visible and blends harmoniously into the landscape.

The formwork was laid in three sections with the prefabricated Zemdrain® Classic CPF liner. With a container circumference of 117.35 m each liner section measured 37.55 m. The use of Zemdrain® avoids damage to the building in the future. The service life of the concrete is demonstrably increased and the maintenance costs are reduced enormously. The Hygiene Institut Gelsenkirchen is examining the building materials used under the direction of Dr Koch. The results will be published in a new DVGW worksheet under the heading "Hygiene in Concrete".

**Type of building:**  
Drinking water tank

**Clients and Developers:**  
Wasserwerke Westfalen und  
Stadtwerke Dortmund; Gelsenwasser  
AG, Gelsenkirchen  
[www.gelsenwasser.de](http://www.gelsenwasser.de)

**Building contractor:**  
OTTO QUAST, Siegen  
[www.quast.de](http://www.quast.de)  
SBB Beutler & Lang Schalungs- und  
Behälter-Bau GmbH, Marktbreit  
[www.sbb-beutler-lang.de](http://www.sbb-beutler-lang.de)

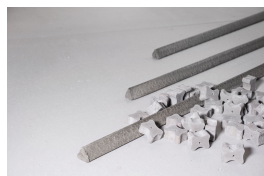
**Completion:**  
2013

# Elevated tank, Höchst

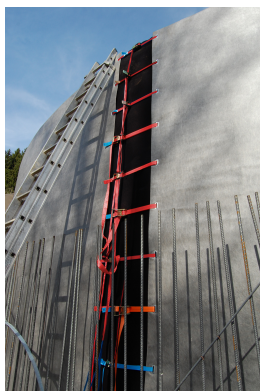
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## Products used:



Fibre concrete spacers



CPF liner Zemdrain® Classic - prefabricated



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