

## REFERENZ HARBOUR CONSTRUCTION AND MARINE ENGINEERING

### Horns Rev 3 / Concrete work platforms – Szczecin, Poland



In December 2017, F+Z Baugesellschaft received the order to manufacture 49 concrete working platforms for the Vattenfall project Horns Rev 3. F+Z owns the patent for the concrete platforms.

The precast elements were manufactured on a shipyard site in Stettin. A field factory was set up for this purpose, which essentially comprised the production area for the reinforcement, the concreting area with the formwork and sufficient storage space for the intermediate storage of the preliminary and final products. The reinforcement cages were manufactured in advance and lifted into the steel formwork in one piece. After aligning the numerous components for the later extensions, concreting was carried out. As soon as the concrete had a sufficient strength and the concrete after-treatment had been completed, the 125 ton precast elements were lifted out of the steel formwork and transported to the intermediate storage area or directly to the customer's installation site.

The platforms were characterized by a high degree of reinforcement of the design author and a high weight. The workshop planning - carried out in the in-house technical office - met these challenges with practical, constructive solutions.

**Contract Value:**  
~3.8 € Mio

**Executed by:**  
F+Z Baugesellschaft  
Today Depenbrock Ingenieurwasserbau

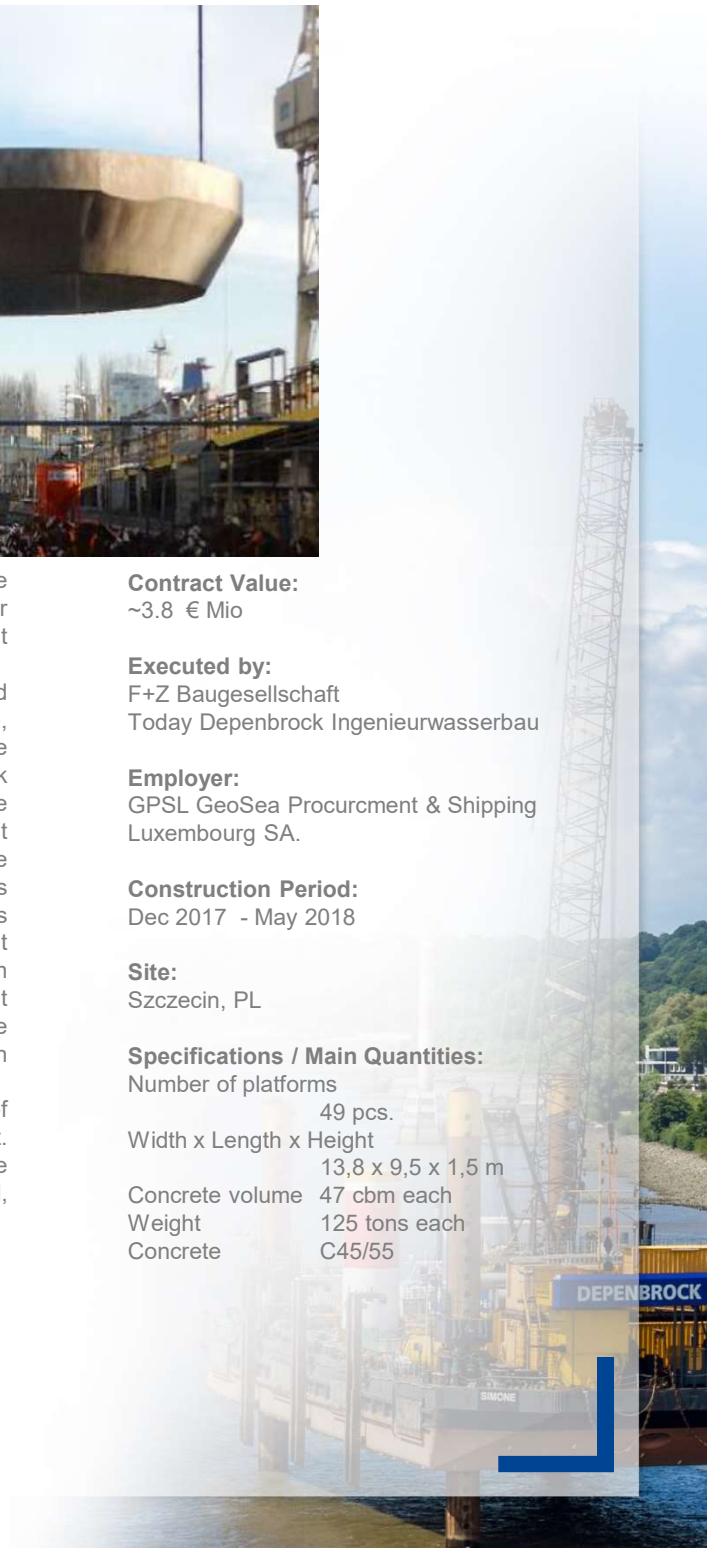
**Employer:**  
GPSL GeoSea Procurement & Shipping  
Luxembourg SA.

**Construction Period:**  
Dec 2017 - May 2018

**Site:**  
Szczecin, PL

**Specifications / Main Quantities:**  
Number of platforms

	49 pcs.
Width x Length x Height	13,8 x 9,5 x 1,5 m
Concrete volume	47 cbm each
Weight	125 tons each
Concrete	C45/55



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