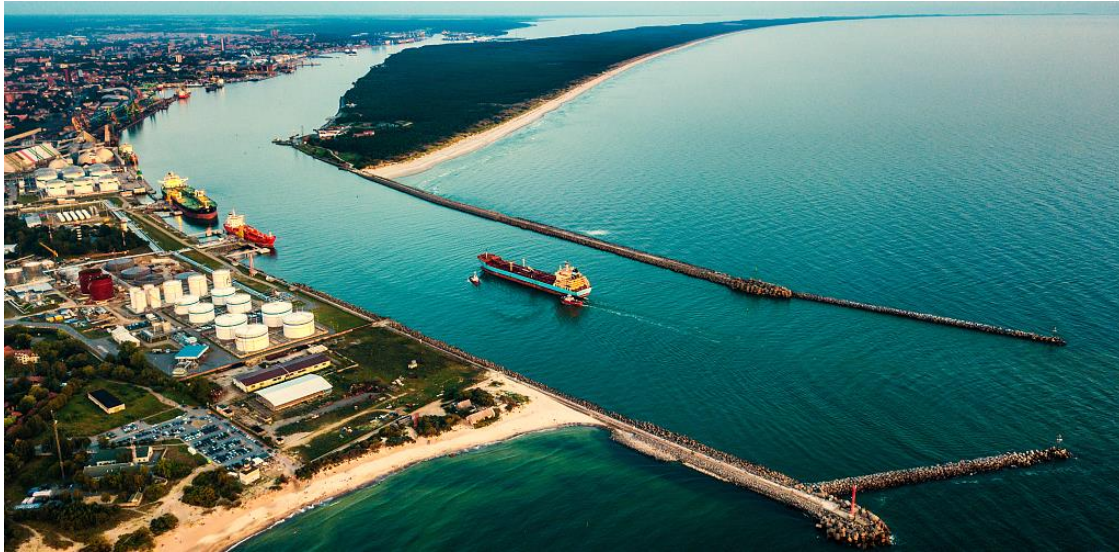




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REFERENZ HARBOUR CONSTRUCTION AND MARINE ENGINEERING

SE Klaipeda State Seaport Authority – Reconstruction of breakwater



Depenbrock Ingenieurwasserbau GmbH & Co. KG awarded the contract for the rehabilitation of the breakwater dam protecting the entrance area of the Curonian Spit ahead of the Port of Klaipeda, Lithuania.

Due to the planned deepening of the river channel, the the foot of the breakwater must be secured against slipping and the stone structure of the breakwater dam must be rehabilitated.

The securing of the breakwater foot is done by a underwater, back-anchored, combined pipe wall. The combined pipe wall has a length of 480m in the southern part and 162m in the northern part. In total, 642m of wall will be constructed, with the top of the wall up to 10m below water level.

The pipes are installed from the jack-up platform “Simone” into previously drilled boreholes, after which the intermediate sheet piles are driven in. Subsequently, the grout anchors are drilled and connected. All work is accompanied by extensive diving work

The stone structure of the existing breakwater is being rehabilitated over a length of 1.5 km. The existing armor stones will be removed in sections, temporarily stored for assessment and, if necessary, reprocessing, and then reinstalled in the new geometry.

On the breakwaters, the promenades will be rehabilitated and two sightseeing points will be created.

Contract volume:
~ 40,5 € Mio

Contractor:
Depenbrock Ingenieurwasserbau GmbH & Co. KG formerly F+Z Baugesellschaft in joint venture with Herbosch Kiere

Client:
SE Klaipeda State Seaport Authority

Construction time:
sep. 2020 to oct. 2022

Location:
Klaipeda, Lithuania.

Technical data / main masses:

Underwater wall

Water depth 10-12 m
supporting pipes approx. 1.800 t
inclined grouted anchors approx. 204 pcs.
intermediate sheet piles approx. 590 t
amount of stone to be moved up to 400.000 t
reinforced concrete approx. 550 m³
concrete surface renovation approx. 7400 m²

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SIMONE



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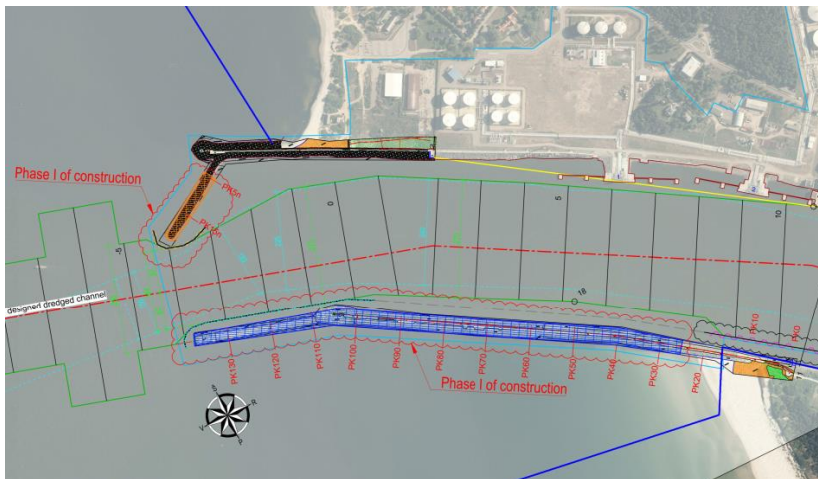
SE Klaipeda State Seaport Authority – Reconstruction of breakwater



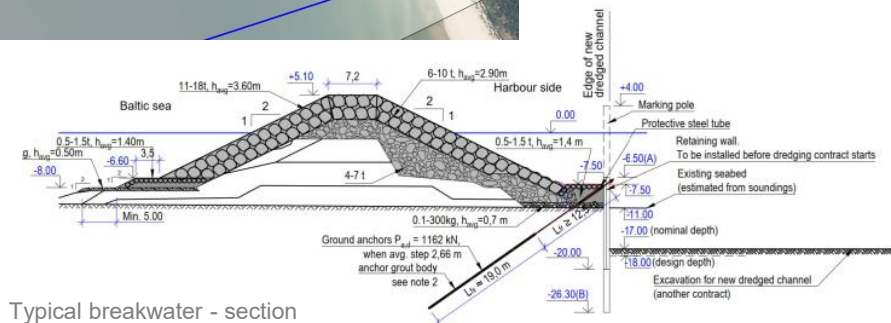
Southern breakwater



Northern breakwater



Overview breakwaters



Typical breakwater - section

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