

# Analysis Investment Costs New Sealock in Terneuzen



**Financed by:** Association for the Advancement of Harbour-bound Investments in Ghent v.z.w.

**Client:** Association for the Advancement of Harbour-bound Investments in Ghent v.z.w.

**Date:** 1993

**Budget:** € 62 500

**Location:** Terneuzen (The Netherlands)

## Assignment:

An analysis of the investment costs was made to gain an insight into the overall costs and the main cost components for the construction of a new sealock in Terneuzen.

## Scope of Services:

- Inventory of relevant basic conditions based on earlier studies and the actual situation.
- Cost comparison between the similar Berendrecht sealock (Antwerp) and the new Terneuzen sealock.
- Parameter design: variation of investment-costs with changing limiting conditions such as lock implantation, lock dimensions (length, width, depth), traffic intensity, ....

## Technical Description:

The harbours of Ghent and Terneuzen can be reached through the lock complex (three locks) in Terneuzen and the Ghent-Terneuzen Canal. Actually, the accessibility of the harbours of Ghent and Terneuzen is limited by the capacity of the lock complex and the dimensions of the Westsluis locks (length 290 m, width 40 m, max. draught 12.25 m).

In order to assure a further port development, since 1980 Ghent harbour authorities wish the construction of a new sealock with dimensions comparable to the Berendrecht

sealock (Antwerp) (Length 500 m, width 68 m, max. draught up to 16 m). By that, a proper entrance to the ports will be assured in the nearby future.

The aim of this assignment was to provide an insight into the overall investment costs for this kind of new sealock by :

- analysing the current and future ship traffic and port development
- inventoring the limiting basic condition for the concept of a new sealock
- setting up a cost comparison with similar constructions. In this study, the Berendrecht sealock in Antwerp was chosen
- investigating the variation of investment costs with alternate parameters regarding lock implantation and lock dimensions.

This assignment should provide a back-up support tool for further studies regarding a new sealock in Terneuzen.

The combined financial and technical evaluation forms a starting base for further strategic and impact assessment studies for this lock area.



*Terneuzen Lock Complex*



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