

Ship sluice design 'De Blauwe As' at Assen, the Netherlands

Field of expertise: Structural civil engineering

Client: Van den Herik



Project description

MH Poly has designed the complete ship sluice including the lower and upper sill and structures, waterway and sheet piling. The sluice differs from a conventional sluice by the combination of new, durable materials that connects to the quality plan of the municipality Assen. Also, the design takes into account the cultural and historical values of the area.

Project activities

- ◆ Tender, preliminary, basic and detailed design;
- ◆ Reports; plan of approach, basis of design, sustainability, employment (social return), explanation of the drawings, time scheme, building phases and a 3D view;
- ◆ Design work and calculations on ship sluice (sluice walls incl. dilatations, sills, balancing concrete walls vs. Insitu concrete), sheet piling (anchoring with innovative system as an alternative), ship guiding structures and the geohydrological work situation;
- ◆ Production of all drawings, different views, sections, details, form and reinforcement drawings.