

Field of expertise: Immersed tunnels & construction

Client: Confidential

Project description

The MOSE-project should protect Venice from high water levels. The barrier consists of 78 hollow steel doors that are placed in recesses in the three openings that connect the lagoon of Venice with the sea.

One of the challenges of this project was the brief lead time for the design of the hoisting possibilities till the delivery of the final design: it needed all to be done in only nine weeks!

Project activities

- ◆ Designing immersion pontoon for placing the concrete caissons into a recess in the seabed at Chiogga opening;
- ◆ Weight calculation 60-ton winches and shop drawings;
- ◆ Strength calculation of the 500 ton lifting blocks;
- ◆ Detailed drawings of the lifting frame, fixing point and decklayout
- ◆ 3D-model of the pontoon with caisson in Inventor.

MOSE-project: Design immersion pontoon for storm surge barrier in Venice

