

Quay walls renovation Technical project Management

Task

As part of the infrastructural development of HafenCity existing quay walls have to be maintained, to be renovated or to be renewed.

The Quay walls remain on the existing level of approximately 5,50m NN.

In many cases a public promenade with 12m width borders the quay wall.

It is connecting either directly to the land to be sold or to public roads.

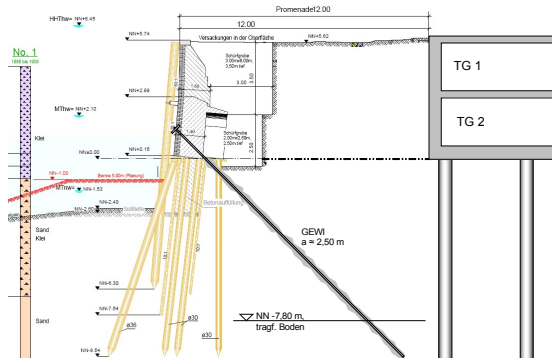


Overview HafenCity West

The collision of anchoring elements of the quay wall with foundation elements of the causeway and buildings required an early, holistic method with the different building owners.

As the basis for all planning activities and construction projects the mastery of the actual stock was an essential base.

Therefore extensive investigations and material examinations were necessary in advance



Quay wall at the Ericusspitze

Solution

The knowledge of the geometry of the existing structure, the detection of surface characteristics, material thicknesses, extent of damage and residual strength or residual lifetime of the used materials like wood, steel, brickwork and beton was extensively determined in so called herd test phases.

Here the task of the project Management was to determine the scope of investigation, to coordinate the involved project planner and structural framework engineers as well as ground experts and special reviewers and at the same time to observe the planning- and construction budget.



Quay walls renovation in the Magdeburger Hafen

The following quay walls were supervised during the inventory, the planning and renovation.

- Quay wall Versmann Kai
- Quay wall Magdeburger Hafen
- Quay wall Hübenerkai
- Quay wall Strandkai
- Quay walls Brooktorhafen
- Quay wall Ericusspitze
- Quay walls Baakenhafen

Afterwards the organization of a monitoring during the construction phase of the adjacent projects for the purpose of damage documentation und damage defense were necessary.

Are you interested

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