



QUAY WALL

DAMEN CIVIL PRODUCT

GENERAL

Ref/No	12
Basic functions	Ship mooring facility and shore protection

DIMENSIONS (APPROX.)

Length	∞	m
Width	0-50	m
Height	0-25	m
Area	∞	m ²
Volume	∞	m ³

CONSTRUCTION / FOUNDATION

The construction and its foundation depends on the required ships and local soil and water conditions.

Construction types:

- Sheet piled quay wall (with capping beam);
- Combi wall (with capping beam);
- Steel cellular / caisson quay walls;
- Reinforced concrete diaphragm walled quay walls;
- Reinforced concrete counterfort quay walls;
- L-shape retaining wall;
- Concrete gravity (retaining) / block quay wall;
- Anchoring of sheet piles/combi wall.

INSTALLATION

Optional installations for a quay wall:

- Mooring bolders and fenders;
- (integrated) ladders and live vest equipment;
- Shore power;
- Refill facilities;
- Terrain illumination;
- Transportation facilities;
- Security systems;
- Storage / disposal facilities;
- Offices.

DESCRIPTION

A well equipped quay wall will provide easy mooring access of ships to the shore for loading, unloading, maintenance, fit outs and/or along quay repairs. As this is our daily business, Damen shipyard is your designated quay wall consultant and designer. Our interference increases the efficiency, reduces down time and maximize profit for ship owners, ship builders and shipyard owners as well as port authorities.

Damen can also assist with the design, engineering and technical assistance of quay rehabilitation projects.

OPTIONAL TOOLS AND EQUIPMENT

Optional tools and equipment to operate at quay wall:

- Fixed and/or movable crane capacity;
- Forklift / reach stacker;
- Trucks and trailers;
- Fully equipped workshop (containers);
- Tugs, Multicats and/or other workboats;
- Cleaning and unloading tools;
- Transportation trolley's;
- Gangways & catwalks.

ADDITIONAL OPTIONS

- Exploitation feasibility study;
- Bathymetric and soil survey;
- Water flow research (to predict sediment transport);
- Design engineering;
- Land reclamation;
- Construction / realization;
- Supervision;
- Maintenance program.

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CONCEPT COMBI/ANCHOR WALL



REHABILITATION OF EXISTING QUAY WALL



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