

## Marineforce Software Marine Barriers

Marineforce, our proprietary force calculator, is now available as a service to our valued clients.

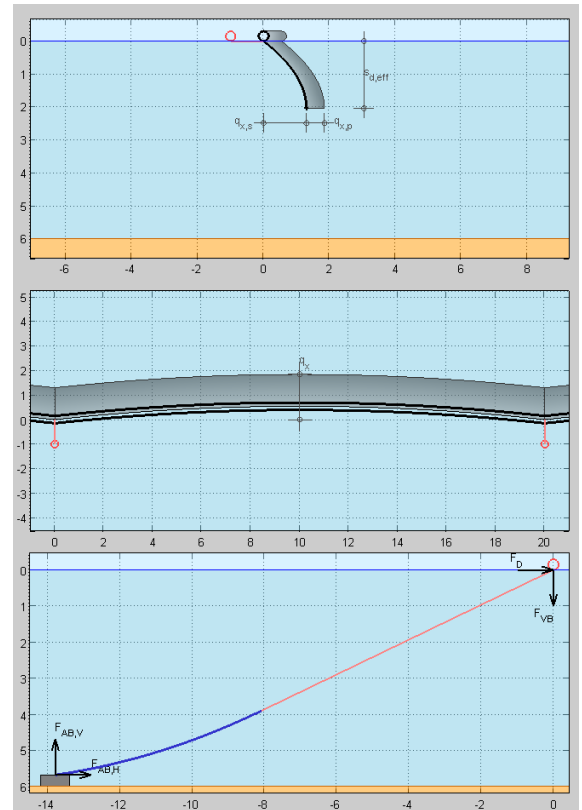
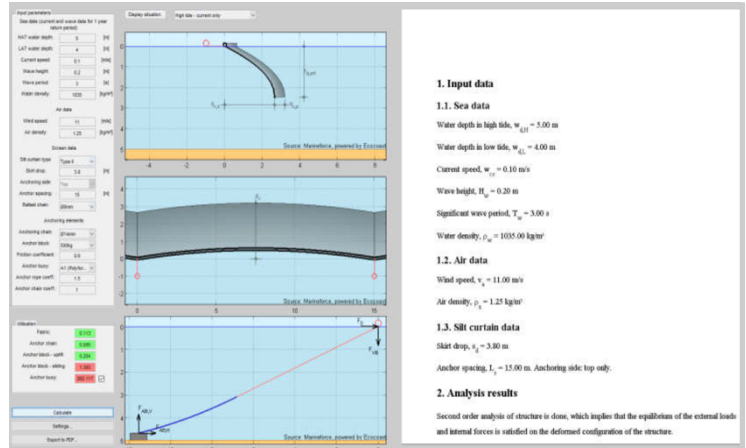
Marineforce was developed out of frustration of the lack of non-linear marine force calculation software. Existing tools in the market only take into consideration loads on a static undeformed barrier, resulting in higher force estimations than those that exist in reality.

We wanted to more accurately calculate forces on our marine barriers, to help our clients better specify and select the correct model, layout and anchoring configuration for their specific environmental conditions.

Marineforce uses second order theory to calculate forces on marine barriers, making it a non-linear calculation and resulting in improved accuracy.

The image on the right (top) shows the interface where the environmental data can be added, including but not limited to water depth at LAT/HAT, current speed, wave height and wind speed. Based on the data input, the software produces 2 outputs: 3 graphs (image bottom right) and a calculation report that verifies whether the marine barrier can withstand the forces from the environmental loads.

The graphs on the right show how the marine barrier will behave under the environmental conditions. The 1st graph, a cross-section view of the marine barrier, shows its effective depth. The 2nd graph, the top view, shows the shape of the barrier. And the 3rd one represents a cross section of the typical anchoring configuration with relevant forces marked.



For assistance with calculating anchor weight and spacing for marine barriers, taking into consideration environmental forces, our technical experts will be pleased to help you free of charge. Email us at [info@ecocoast.com](mailto:info@ecocoast.com).

Other available calculators: Geoforce for geosynthetic containers | Moorforce for Aids to Navigation.