

Title of Diploma Thesis

Investigation of the Implementation of a Marina at Thessaloniki's Waterfront

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Academic Year

2017-2018

ABSTRACT

This diploma thesis explores the realization of the construction of a modern marina in the Thermaikos Gulf, Greece and, more specifically, in a marine area at the waterfront of Thessaloniki (marine area in front of Thessaoniki's Concert Hall). It is characterized as modern, because of the application of floating elements for the construction of the entire marina, which represent the most technologically advanced solution in the relevant field. The investigation, therefore, focuses on the feasibility of a floating marina in the particular area. In the framework of this investigation, a detailed report of the necessary theoretical knowledge related to floating structures and particularly to those applied for ports is, initially, presented. Next, the layout of the marina is defined as well as the characteristics of all floating elements (floating breakwaters, floating docks, mooring system etc). The budget estimation of the proposed solution follows. Finally, the conclusions of the preliminary study are presented.

Keywords: Marina, Layout, Floating breakwater, Floating dock, Cost, Thessaloniki.