

Abstract

Buoyancy Boxes (Sponsons) Effects on Sea Keeping Qualities of RoRo/PAX Ships

A ship seakeeping quality is usually adjudged in regards to many parameters like vessel motions thus affect passengers comfort cargo safety. In this paper a numerical analysis for two cases was made to study the effect of fitting buoyancy boxes (Sponsons) on RORO on Motion sickness incidence and vertical acceleration levels. The analysis shows that in different Sea states, the sponsons seems to have a positive effect in reducing motion sickness as well as for the vertical acceleration, although this advantage seems to have minor effects but could prove useful as a step towards a more comfort and healthy seagoing ship.