Abstract

Distribution logistics in disasters can be carried by ships. This ship is used as a bridge to the ramp door and out of the vehicle. When the ship used ramp door is length less so the trucks could not pass up ashore. Therefore, modifications to the ramp door is held by the addition of a long ramp door with ramp type sliding door. The purpose of this study was to determine the feasibility of changes to the ramp door on freighter ADRI-XLV. The addition of ramp construction sliding door was added to 3.5 meters long and wide still refer to the existing ramp door 4.3 meters long, so it increases the length from 6 meters to 9.5 meters. From the analysis of both the FEM calculation and the total weight construction ramp door that is equal to 7.23 tons and the control voltage of the foregoing, the live load deflection control, and control of shear force is acceptable because it is still smaller than the allowable.

Keyword : Modifications to the ramp door, bridge, construction, FEM.