COMPARATIVE ANALYSIS METHOD AND HALFSLAB PLATE SLAB WORK OF COMPOSITE STRUCTURES BONDEK PLATE FLOOR APARTMENT PROJECT DE PAPILIO TAMANSARI SURABAYA

Name : Rininta Fastaria
NRP : 3110.100.070
Major : Civil Engineering FTSP-ITS
Supervisor : Yusroniya Eka Putri., ST., MT

Abstract

At slab structure works of story buildings as technology advances has been progressing in terms of methods, equipment, and material. One is the use of halfslab for formwork. In composite bondek way, for the working structure of the floor slabs are used as formwork bondek waste and if using halfslab, waste formwork used is precast concrete. Both of these methods use a conventional plate to make the composite floor structure.

The data necessary for comparative analysis of these two systems is secondary data. Secondary data is data obtained from executing the work in the form of images halfslab modules, time schedule, halfslab structure calculations, and the halfslab formwork volume. The calculation time is based on the division of work volume to the productivity of resources and the number of groups that carry out such work, while the cost calculation is based on the amount of volume of work and the amount of material on the needs of each job.

From the calculation of the costs and the time at construction project of Apartement De Papilio Tamansari Surabaya which a method halfslab, total duration of the project required for this method is 205 days at a cost of Rp 15.342.599.781,12 and for the composite plate method bondek implementation takes over 176 days at a cost of Rp 10.698.498.238,00. Composite bondek method more cheap than
halfslab in practice, and the time required to composite bondek faster than halfslab.

Keywords: halfslab, bondek composite plate, floor plate method.