THE COMPARISON STUDY OF STRUCTURE TREATMENT AND BUDGETING SYSTEM FLAT PLATE - SHEAR WALL WITH OPEN FRAME SRPMM AT TERANG BANGSA SCHOOL SEMARANG IN 4th QUAKE ZONE

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ABSTRAK

The construction of bone’s building of concrete nowadays is always rising. The building constructions in Indonesia are still using a conventional method (beam-column) up to now. Accordance with technology which more and more progressive, engine innovation of civil engineering is needed by using flat plate system structure for multistoried building. Flat plate is a two directions floor plate which is carrying the load directly to the column without any distribution to the tributary from panel of wood. Flat plate has some more excess than conventional system, those are: structure's form that more simple and functional, more economics, because it is using less bekisting, has a bigger high free space because of no deducting of beam and components side effects of another proponent structure, and ease of installing the mechanical and electrical installation.

In an expensive multistoried building planning, there is inclination to do some economizing to get a maximum profit. This economizing is allowed id there is no decreasing to the power of constituent building itself. Because of that reason it needs some comparison between a structure system to know the budget of correlations and the structure of treatment.

This study will be compared between beam’s building planning and building planning without beam. This analyze begins from the decision of two models, those are open frame SRPMM (beams building) and flat plate with shear wall (building without beams), afterwards deciding each models of load will be continued to the load mechanical analyzing and each models of structure elements loading. The evaluation will be done for knowing each model, after that will count volume of using the concrete and the construction in one portal that able to use, in order that able to showed
from each systems. From that evaluation will compared one to another which one is better (economize).

**Key words** : Flat Plate, Shear Wall, Open Frame, SRPMM, Economize