

ABSTRACT

CALCULATION OF BEAM REINFORCEMENT ON THE SECOND FLOOR OF KALIBAN SCHOOL 2 PROJECT

NELSON CHEN

NPM : 1611027

Internship that carried out by student aims to compare the reinforcement calculations by the contractor with the one that is calculated by student. Many structural failures occur due to miscalculations of the structure during the planning of a building. These structural failures could do loss on material, furthermore if there are causalities included.

The work method consists of data collection which is done by calculating the need of reinforcement which refers to calculations in SNI. Student calculations will be re-evaluated and matched with work drawings. The data needed is obtained by interviewing the director, project leader, and foreman.

During the 3 months of internship, student has implemented the provisions and objectives of practical work. The author calculated the beams manually and compared these calculations using a software. The author concludes that the calculation of the second floor beam reinforcement of Kaliban School 2 is in accordance with the provisions on which the author's calculations are based.

Keyword: beam, SNI, structure, reinforcement.