

ABSTRACT

CALCULATION OF STEEL REINFORCEMENT OF SLAB FOR HOUSE TYPE 148 OF RESIDENTIAL CONSTRUCTION PROJECT PARAGON HILL PT. SARANA BANGUN SEJATI

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The goal of this internship is to calculate the steel reinforcements of slab of the residential construction project Paragon Hill in which the slab must be able to withhold the weight applied on the concrete slab. The internship is being done from 25 February 2019 until 30 May 2019. The methods used for collecting data were literature study, interviewing, and observation.

During the period of internship, the writer experienced and learned from site about the methods being used on site in order to build concrete structure in this construction project. The output of this activity is for the writer to be able to execute the building operation of structure.

The calculation and analysis of structure is based on “SNI 03-2847-2002” in which the regulation is about the structure of concrete slab. The regulation consists of rules for slabs to withhold dead load from the weight of the slab as well as the live load when the structure is ready for operation.

The result from the analysis shows that the slab used in the construction project of Paragon Hill Residence has fulfilled the standards of SNI 03-2847-2002 with the ability to withhold $4,18 \text{ kN/m}^2$ of dead load and 2 kN/m^2 of live load.

Keywords: calculation, slab, concrete, structure