ABSTRACT

HOTEL SANTIKA BATAM
BEAM STRUCTURE ANALYSIS

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This internship aims to analyze and design the strength of the Santika Batam hotel building beam structure in supporting the load resulting from the construction load and the post-construction load that works on the building. Internships are conducted during the period 4 February 2019 to May 4, 2019.

The output obtained from this internship, is the procedure of the implementation of work, the stages in the construction of a building structure, to the method of carrying out maintenance in the structure of the building and procedures for fixing the damage or failure of the building structure.

The 2nd floor concrete beam structure on grid A 4-6 in the construction project of the Santika Hotel Batam Building requires 400mm x 850mm beams, with reinforcement support (top 10-D19, bottom, 5-D19), field reinforcement (top 5-D19, under 5-D19), 2-D10 side bars and D10-200mm cross-bars. The results of the analysis show that the installation of the size and reinforcement of the 2nd floor beam on grid A 4-6 can withstand the load and force that occurs.

Keywords: analysis, development project, structure, beam