ABSTRACT

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

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This internship program aims to calculate the strength of the ladder structure in type 148 houses on the Paragon Hill project. Job Training courses are conducted during the period 25 February 2019 to 25 May 2019. The methods that practical work practitioners use during the implementation of this Job Training are literature, observation, and interviews. This Job Training course gives the author experience about the systems and methods used in the world of civil engineering work, especially in ladder construction. In this practical work the author also gained experience to interact with many people.

The ladder is part of a structure that is useful to unite two vertical levels, and there are several shapes of stairs, "U", Stairs "I", and "L" stairs.Stairs can also be made with several kinds of materials, wood, steel, reinforced concrete, and natural stone.In addition to being just a bridge between two vertical levels, stairs can also be added to the aesthetic art inside to beautify and beautify.

The calculation of stairs also includes calculating the height and width of the stairs, counting the number of steps, and calculating the carrying capacity that can be borne by the ladder itself.The purpose of this study is to recalculate and determine whether the size/recurrence contained in the work picture equals to the size/repatriation that has been attached in the field, so that the home owner is safe to use.

***Keywords**: stairs, bearing capacity, calculation*