

ABSTRACT

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Tamansari Iswara Apartment Bekasi Project. Formwork Perth Contruction Hire (PCH) Method and Calculation of Formwork Requirements on Tower A 8th Floor Zone 1.

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Tamansari Iswara Bekasi Apartment is one of the development projects carried out by PT. Wijaya Karya (persero) Tbk. as the owner who conducts Business Cooperation (KSU) with PT. Balai Pustaka (Persero) and PT. WIKA Gedung as its main contractor. Tamansari Iswara Apartment is located on Jl. Cut Meutia No.2 Sepanjang Jaya, Rawalumbu, Bekasi. This building has a land area of 9,322.81 m² with an overall building area of 104,481.22 m², which consists of 2 towers with 32 floors for tower A and 34 floors for tower B. In the execution of a project, a method is needed so that the implementation can run according to target time, quality and cost. Formwork planning is an important part in the implementation of reinforced concrete structures, there are several types of formwork methods. One of them is PCH formwork method, which was developed in Australia. PCH formwork system is a semi-system formwork where the contact formwork uses plywood boards and scaffolds using steel pipes. Formwork requirements calculated for tower A on the 8th floor of zone 1 required 67 board plywood for work 195.11 m² on the beam, 128 board plywood for work 378.93 m² on the plate, and 38 boards for plywood for mold 111.60 m² in the column. With a total of 685.65 m² of work requires 233 plywood boards.

Keywords: Formwork, Scaffolding, PCH, Formwork requirements