

ABSTRACT

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Syntehsis Residence Kemang Apartment Building Project

The method of implementation and concrete volume calculation of shear wall on Tower 2 31nd floor zone 3

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XIII+73+Attachments

Synthesis Residence Kemang Apartment building project, located on Jl. Ampere 1A, South of Jakarta, DKI Jakarta. This apartment built on a land area of $\pm 20.147 \text{ m}^2$ with building height of $\pm 118,500 \text{ m}$ for Tower 2 and 3 consist of 33 apartment floors. Consturction of this project began in June 2017 and is expected to be completed in January 2021 with maintenance period of 365 days on calendar. Owner of this project is PT. Sintesis Kreasi Bersama Grup which also as a construction management, and the main contractor is PT. Nusa Raya Cipta. This project using Lump Sump Fix Price contract type with a contract value of IDR 488.000.000.000,00. Shear wall are walls that are designed to withstand lateral sliding style, style due to the earthquake, so it takes a good planning so that high rise buildings can withstand the lateral forces induced by wind and earthquake. The execution method of shear wall includes determination of formwork axles, fabrication of reinforcement, installation of concrete decking, check reinforcement, installation of formwork, concrete casting, dismantling of formwork, curing and finishing. In the calculation results, the concrete volume for SW4 is $6,10406 \text{ m}^3$ and SW5 is $13,857555 \text{ m}^3$, so that the total volume obtained is $20,125 \text{ m}^3$.

Key words: Syntehsis Residence Kemang Apartment, Practical Work Objectives, Method Implementation, Concrete Volume, Shear Wall