

ABSTRACT

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Tokyo Riverside Apartment Project, Work Implementation Method and Calculation of Volume Requirements for Ground Floor (GF) Beams Podium Tower 7-8.

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(XV+85+Attachment)

Tangerang is a big city with a fairly high population mobility. Developments in the Tangerang area have high potential as a business city, one of which is the construction of apartments in the Pantai Indah Kapuk 2 area. The apartment is a multi-storey building that offers various facilities in one area. Tokyo Riverside Apartment project is located at Otista Street PIK 2, Lemo, Teluknaga, Tangerang. Tokyo Riverside Apartment is built on an area of 294,053.6 m², with plans to build as many as 11 towers consisting of 30 floors with one floor semi-basement, one floor of the facility, and one floor of the evacuation. PT. Mandiri Bangun Makmur which is a subsidiary of PT. Agung Sedayu Group as the owner of the project and PT. Pulauintan Bajaperkasa Konstruksi as the main contractor. The implementation of the construction of the Tokyo Riverside Apartment tower 7 is planned for 15 months starting from the contract date, October 4, 2020. Observations of the implementation of work in the field include work on the, namely the work of columns, shear walls, beams, and floor plates. Beams are part of the structure that is used as a floor holder and a fastener for the upper floor column. The method of implementing the beam work is starting with determining the beam axles, installing scaffolding, installing beam formwork, installing beam reinforcement, checking beam reinforcement, casting beams, dismantling formwork, and beam maintenance. The problem that occurs in the Tokyo Riverside Apartment project is the presence of porous concrete in several columns, the solution is to do grouting on porous concrete. In the Tokyo Riverside Apartment Project, the volume requirement for the concrete beam structure required for the GF Podium Tower 7-8 floor is 86,641 m³.

Keywords: Beams, Implementation Method, Concrete Volume