

ABSTRACT

Wira Muhammad Ramadhan, 17315178

Construction Project Silk Town Tower Alexandria Apartment

"Implementation Method and Calculation of Beam Casting Volume 11t Floor Part 1"

*Civil Engineering Department, Faculty of Civil Engineering and Planning
gunadarma University*

(xiii + 70 + Appendix)

Construction of the Silk Town Tower Alexandria Apartment on Jl. Boulevard Silk Town Lot 7 Pondok Jagung Timur, Serpong Utara, Tangerang Selatan, Banten by contractor PT. Nusa Raya Cipta aims as a means and infrastructure for apartments. Beam work is reinforced concrete work planned to withstand compressive stresses and tensile stresses caused by bending loads. Beams are part of a rigid building structure and are designed to hold and move loads to supporting column elements. Beams are horizontal rods of frame structures that resist bending loads due to moments that occur in building structures. The beam also holds vertical and horizontal loads. Based on its function, the beam is divided into two parts, beams and beams. In the implementation of the beam work there are various steps that must be done, namely making a picture of the shopdrawing, after that the scaffolding point survey is carried out, then there is the installation process of scaffolding, installation of girder and installation of formwork, there is a process of refining and casting and dismantling formwork. In calculating the casting block volume, it is necessary to calculate the volume of the main reinforcement and stirrup, then the final volume of casting is obtained.

Keywords: Beams, Installation and Calculation of beams