

## ABSTRACT

Muhamad Arifqi Ziddan, 10320371

*Design & Build Project for the Construction of Proclamation 46 Building. Method of Implementation of Aluminum Formwork and Formwork Panel Requirements for Basement Columns of Proclamation 46 Building Construction.*

*Civil Engineering Department. Faculty of Civil Engineering and Planning  
Gunadarma University  
(XV+76+Attachment)*

*The development of construction projects in the current industrial era 4.0 is increasing, the construction of multi-storey buildings cannot be separated from concrete construction work, formwork is a temporary mold that is used to hold concrete while the concrete is poured and formed as desired, although it is temporary, but formwork has an important role in concrete construction work. The Proclamation Building Construction Project uses 2 formworks, namely conventional and aluminum. The implementation of the Aluminum Formwork work in the Proclamation Building construction project has methods or stages of implementation in the Aluminum Formwork work such as checking the marking and determining the panel to be installed. At the time of project implementation, work was underway to install Soldier Pile formwork and column casting. In this study, it is reviewed the installation of aluminum formwork and the calculation of panel requirements on Basement floor columns. Based on the results of the research conducted, it takes  $\pm 260$  minutes to install formwork on columns K1 and K6 at the basement floor and requires 56 aluminum formwork panels with a total of 6 columns.*

*Keywords: Work Implementation Method, Aluminum Formwork*