

ABSTRACT

ANALYSIS OF THE RISK OF USE OF PERSONAL PROTECTIVE EQUIPMENT ON TIME PERFORMANCE OF SLAB ON PILE WORK (Case Study: STS Martadinata Serpong – Cinere Toll Road)

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The occurrence of work accidents, especially due to the use of personal protective equipment (PPE), will affect the performance of construction projects. Therefore, it is necessary to identify risks related to personal protective equipment so that they do not interfere with performance during slab on pile work. The aim of this research is to find out whether the use of personal protective equipment can affect time performance on slab on pile work in STS construction projects. The research method used is survey and observation methods where data collection uses research instruments in the form of questionnaires. The results of this research were that 27 risk factors were found that were related to the use of PPE, with details of 1 variable being low and 26 variables being medium high. The 4 dominant variables in the analysis of their influence on slab on pile work time include: falling material, fingers cut by saws, fingers cut by bar cutting, and falls from heights. The amount of time wasted ranges from 1 day to more than 1 week per potential risk according to the size of the accident that occurs.

Keywords: personal protective equipment, time performance, slab on pile, risk analysis