

## Pengaruh fire safety terhadap kehandalan bangunan dalam mencegah terjadinya bahaya kebakaran pada bangunan tinggi perkantoran di DKI Jakarta

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### Abstrak

The Fire damage occurs in unpredictable time and can cause losses to the owner because of the damage. It can occur in buildings that do not have Fire Protection and Fire Safety Management System in the building. By detecting and preventing against fire damage, which arise in unpredictable times will prevent loss of lives and assets of the buildings.

There has been considerable research into the fire damage such as at the Polo Condominium in Colorado. The Polo Condominium that was built in 1967 caught fire on October 31' because it did not have the Fire Protection System in each floor. When the fire came and burned the building interior, the building could not extinguish the fire because it did not have fire detector and sprinklers in place.

To solve the problem, in Jakarta there are a lot of guidelines such as the Minister Of Public Works Decree # 02IKPTS11985 for Fire Safety in building. But from many fire damages, the guidelines could not accommodate the problem because the buildings did not incorporate Fire Protection and Fire Safety Management System. Relevant research indicated that Fire Protection and Fire Safety Management System are very important to detect and prevent against fire damage. In this research, the Fire Protection and Fire Safety Management System are defined as Fire Safety Design which have been taken from many relevant theories and journals.

From 50 questionnaires sent to various high rise office buildings in Jakarta, 30 responses were received to be viable for in depth analysis. The result of the analysis shows clearly that the Fire Safety Design is positively correlated in a linear manner to four of the key Fire Safety Design variables. The four key variables influencing building reliability in design carried out by the consultant and controlled by the construction manager in the projects are : detection and fire alarm, building architecture, the designer's fire certificate and special equipment to stop fire\_ This research can then be used to control and measure the quality of Future Fire Safety Design of the high rise building reliability in Jakarta.