HIGH RISE OF OFFICE RENT BUILDING DESIGN WITH GREEN ARCHITECTURE CONCEPT IN SURABAYA

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ABSTRACT

Economic growth in Indonesia cause increasing high-rise buildings, especially office rentals. Tall building into a major sector of today's biggest energy waste. Potential energy waste in high rise buildings in Indonesia especially Surabaya was triggered by a tropical humid climate. This led to exposure to the sun's heat during the year is quite large on the building facade that affect the space therein. Air factors and lighting becomes a major factor in energy dissipation on the office lease. The concept of green architecture provides energy saving measures on high buildings, along with environmental aspects to provide a comprehensive design. Method approach to descriptive experimental study is to collect data from a variety of literature, then proceed with the theoretical basis for the conclusion that the theory used. The next step applying methods from various sources for elaboration. The results of the study indicate the criteria type of green architecture can provide the most optimal leasing office is the type of landscape/open plan system and shallow type of office space. Thermal load of the optimal type of rental office generates less energy expenses than similar buildings in Surabaya.

Key words: green architecture, experimental descriptive studies, type of office rent, thermal load