

ABSTRACT

STUDY OF THERMAL COMFORT IN THE FATAHILLAH PARK AREA OF THE OLD CITY OF JAKARTA

Shafira Feliana, 1) Rahma Purisari, ST.Ars., M. Ars. GP 2)

1) *Students of the Architecture Study Program,*

Pembangunan Jaya University

2) *Lecturer in the Architecture Study Program,*

Pembangunan Jaya University

Public spaces play an important role in urban society as places for social interaction, recreation, and daily activities. The existence of comfortable and easily accessible public spaces has become a primary need in supporting the quality of life for urban communities. One of the most attractive public spaces in Indonesia is Fatahillah Park in Jakarta's Old Town. This area not only serves as a gathering space for the community but also has historical and cultural value that supports its tourist appeal. However, thermal comfort in this area remains a challenge due to high air temperatures, a lack of vegetation shade, and suboptimal open space design that can reduce the impact of direct heat exposure on visitors. This study aims to analyze thermal comfort in Fatahillah Park, Old Town Jakarta, using the Physiological Equivalent Temperature (PET) approach. The results of this study show that environmental factors, such as high air temperature and lack of vegetation, significantly contribute to the thermal comfort of visitors. In addition, individual factors, such as the type of activities performed and the type of clothing worn, also affect the level of thermal comfort. Therefore, efforts to improve thermal comfort in this public space need to be carried out with more effective strategies, such as adding greenery elements, enhancing the quality of surface materials that can reduce heat, and designing more adaptive open space layouts. With this research, it is hoped that the results can provide recommendations for designing and planning the management of public open spaces that are more thermally comfortable in the Fatahillah Park area, Old Town Jakarta. The implementation of appropriate strategies in public space design will not only enhance visitor comfort but also support tourist attraction.

Keywords: Public Space, Thermal Comfort, Fatahillah Park Old Town Jakarta, Physiological Equivalent Temperature (PET).