ABSTRACT

IMPLEMENTATION OF TROPICAL ARCHITECTURE CONCEPT IN HOUSES
CASE STUDY: CASA CANONEO HOUSE AND BAITIS SALMAH HOUSE BY
STUDIO ARSITEKTROPIS

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The humid tropical climate that often happens in Jakarta and its surrounding areas, causes an increase in temperature every year. This condition causes the decrease of the thermal comfort in houses, especially for its users. The solution that emerged to overcome these problems is by using the tropical architecture design concept that would create an ideal living space in the humid tropical climate. Two examples of houses with tropical architecture concept that have been built in Jakarta and its surroundings are Casa Canoneo house and Baitis Salmah house, which comes with a tropical architecture concept. These two houses have a few differences, in terms of the site condition. Case Canoneo is located in a medium density area, due to its form, which is a parcel of land. Meanwhile Baitis Salmah’s house is located in a dense area, because its position being in a slum area. The implementation of tropical architecture in these two houses can be seen by the natural lighting and ventilation, which are the main system in both houses. Those two components, must also consider the tropical architecture concept, which are space organization, building orientation, roof design, building openings and ventilation, transparent walls, shadows, massive walls, thickness of the building, materials and landscaping.

Keywords: tropical architecture concept, natural ventilation, natural lighting, criteria, characteristic

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