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Relationship of Wind Movement to Thermal Comfort at the Fencing House in Samarinda

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Abstract



References



Citations



Supplementary Data



Article Media



Metrics



Suggestions

In fulfilling the thermal comfort level in the room can be carried out efforts to control the effect of climate on the building. In this case of wind and thermal comfort issues, passive control efforts, such as examples of the potential for air movement for ventilation and air exchange, are possible. The room of air movement is necessary because it plays an important role in achieving comfort in the room. While the temperature or humidity of the air inside the room is high, but there is sufficient air movement then the thermal comfort of the space can be achieved. The movement of air outside the building into space can also serve to cool the space. In addition, the movement of air can release heat from the surface of the skin through evaporative cooling (evaporative cooling). The greater the speed of air movement, the more heat that can be removed from the surface of the Human body. The purpose of this study is to examine the relation of wind movement to thermal comfort by connecting wind movement to thermal comfort in the fencing room to find out the cause and to produce good and convenient design concepts applied to fencing building in Samarinda. Quantitative data from the observation and measurement in the form of field data comparable with the theory, to obtain a thermal comfort findings at fencing in Samarinda.

Keywords: Air Movement; Thermal Comfort

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