AN ANALYTICAL STUDY OF THERMAL COMFORT LEVELS IN CONTEMPORARY RESIDENTIAL UNITS IN THE COLOMBO METROPOLITAN REGION

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ABSTRACT

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This study analyses the thermal comfort variation between urban houses in Colombo Metro Region. Three Basic urban house forms exist in the CMR were selected for the study. Using parametric building energy simulation software, the study analyses the indoor Operative Temperature levels. Five design options are analysed to determine their potential to improve the indoor comfort levels. Further using two sets of climatic records (1995-2000) (1920-1960) study analyses the effect of altered urban climate to the contemporary residential units.

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