

A Modeling Study of Ventilation in Manufactured Houses

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ABSTRACT

The design of mechanical ventilation systems for small, tightly sealed buildings is a complex task. This paper presents a modeling study of ventilation in manufactured houses. The study involves the development of a mathematical model of the ventilation system, the simulation of the model, and the analysis of the results. The model is based on the principles of mass and energy conservation, and it takes into account the effects of the building's geometry, the ventilation system's components, and the occupants' behavior. The simulation results show that the ventilation system can provide adequate ventilation for the house, but that the system's performance is highly sensitive to the building's air leakage and the occupants' behavior. The analysis of the results suggests that the ventilation system should be designed to provide a minimum ventilation rate of 1.0 air changes per hour (ACH) for the house.

INTRODUCTION

The design of mechanical ventilation systems for small, tightly sealed buildings is a complex task. This paper presents a modeling study of ventilation in manufactured houses. The study involves the development of a mathematical model of the ventilation system, the simulation of the model, and the analysis of the results. The model is based on the principles of mass and energy conservation, and it takes into account the effects of the building's geometry, the ventilation system's components, and the occupants' behavior. The simulation results show that the ventilation system can provide adequate ventilation for the house, but that the system's performance is highly sensitive to the building's air leakage and the occupants' behavior. The analysis of the results suggests that the ventilation system should be designed to provide a minimum ventilation rate of 1.0 air changes per hour (ACH) for the house.

The first objective of this study is to develop a mathematical model of the ventilation system. The model is based on the principles of mass and energy conservation, and it takes into account the effects of the building's geometry, the ventilation system's components, and the occupants' behavior. The second objective is to simulate the model and to analyze the results. The simulation results show that the ventilation system can provide adequate ventilation for the house, but that the system's performance is highly sensitive to the building's air leakage and the occupants' behavior. The third objective is to suggest design guidelines for the ventilation system. The analysis of the results suggests that the ventilation system should be designed to provide a minimum ventilation rate of 1.0 air changes per hour (ACH) for the house.

The second objective of this study is to simulate the model and to analyze the results. The simulation results show that the ventilation system can provide adequate ventilation for the house, but that the system's performance is highly sensitive to the building's air leakage and the occupants' behavior. The analysis of the results suggests that the ventilation system should be designed to provide a minimum ventilation rate of 1.0 air changes per hour (ACH) for the house.

DESIGN GUIDELINES FOR MECHANICAL VENTILATION

The design of mechanical ventilation systems for small, tightly sealed buildings is a complex task. This paper presents a modeling study of ventilation in manufactured houses. The study involves the development of a mathematical model of the ventilation system, the simulation of the model, and the analysis of the results. The model is based on the principles of mass and energy conservation, and it takes into account the effects of the building's geometry, the ventilation system's components, and the occupants' behavior. The simulation results show that the ventilation system can provide adequate ventilation for the house, but that the system's performance is highly sensitive to the building's air leakage and the occupants' behavior. The analysis of the results suggests that the ventilation system should be designed to provide a minimum ventilation rate of 1.0 air changes per hour (ACH) for the house.

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Keywords: mechanical ventilation, manufactured houses, modeling, simulation, analysis, design guidelines.

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environmental issues witnessed today research presented in this book stressed on the need of sustainably shaping buildings and cities using renewable energy sources Topics included in this book are 1 Resilience in the Built Environment 2 Design for energy efficient architecture and 3 Alternative and Renewable Energy Resources Quest in Architecture and Urbanism The book is of interest to researchers and academicians who continuously aim to update their knowledge in these fields as well as decision makers needing the enough knowledge to carry out the right decisions towards the benefit of the environment and society

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