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DESIGN GUIDE



# Cupolex Building Systems Venting System Design Guide

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## **Cupolex Building Systems Venting System Design Guide:**

*System Performance Evaluation and Design Guidelines for Displacement Ventilation* Qingyan Chen, Leon R.

Glicksman, 2003 This book presents system performance evaluation and includes a 10 step design guideline for displacement ventilation systems for U S buildings These design guidelines present two important models 1 to calculate the temperature difference between the head and the foot level of an occupant and 2 one to determine the ventilation effectiveness at the breathing level The book notes that A displacement ventilation system can provide a thermally comfortable indoor environment at a high cooling load through careful design The indoor air quality in a space with displacement ventilation is better if the contaminant sources are associates with the heat sources The displacement ventilation system can also save energy but requires a separate heating system if it is applied to building perimeter zones 6 x 9 soft cover

*Ventilation Systems* Hazim B. Awbi, 2008 This comprehensive reference guide to ventilation systems provides up to date knowledge based on the experience of internationally recognized experts to deal with current and future ventilation requirements in buildings Presenting the most recent developments in ventilation research and its applications this book covers the fundamentals as well as more advanced topics With rigorous coverage for researchers and a practical edge for building professionals *Ventilation Systems* is the one stop guide for the subject

**Natural Ventilation of Buildings** David Etheridge, 2011-11-07 Natural ventilation is considered a prerequisite for sustainable buildings and is therefore in line with current trends in the construction industry The design of naturally ventilated buildings is more difficult and carries greater risk than those that are mechanically ventilated A successful result relies increasingly on a good understanding of the abilities and limitations of the theoretical and experimental procedures that are used for design There are two ways to naturally ventilate a building wind driven ventilation and stack ventilation The majority of buildings employing natural ventilation rely primarily on wind driven ventilation but the most efficient design should implement both types *Natural Ventilation of Buildings Theory Measurement and Design* comprehensively explains the fundamentals of the theory and measurement of natural ventilation as well as the current state of knowledge and how this can be applied to design The book also describes the theoretical and experimental techniques to the practical problems faced by designers Particular attention is given to the limitations of the various techniques and the associated uncertainties Key features Comprehensive coverage of the theory and measurement of natural ventilation Detailed coverage of the relevance and application of theoretical and experimental techniques to design Highlighting of the strengths and weaknesses of techniques and their errors and uncertainties Comprehensive coverage of mathematical models including CFD Two chapters dedicated to design procedures and another devoted to the basic principles of fluid mechanics that are relevant to ventilation This comprehensive account of the fundamentals for natural ventilation design will be invaluable to undergraduates and postgraduates who wish to gain an understanding of the topic for the purpose of research or design The book should also provide a useful source of reference

for more experienced industry practitioners      *Natural Ventilation in Buildings* Francis Allard, 1998 AIOLOS is a computational tool for the calculation of the airflow rates in naturally ventilated buildings      *Design Methodologies for Smoke and Heat Exhaust Ventilation* H. P. Morgan, 1999 This guide summarizes the advice available from the Fire Research Station to designers of Smoke and Heat Exhaust Ventilation Systems SHEVS for atria and other buildings It builds upon currently available published advice especially BRE Report Design approaches for smoke control in atrium buildings 13 but also BRE Report Design principles for smoke ventilation in enclosed shopping centres 24 by including more guidance on the use of the methods given and by including the results of research carried out since the publication of ref 13 in 1994 In particular the use of a design fire size is considered in more detail including a discussion of growing fires formulae and calculation methods to determine the deflection of smoke curtains in fire situations so that the specification of smoke curtains can become part of the SHEVS design the effects due to airflow on the efficiency of natural smoke exhaust ventilators and on the stability of smoke layers This guide does not consider the scenario where a fire in a room connecting to an atrium causes a flame plume to rise into the atrium In this context any large space adjoining the fire room may be considered to be an atrium eg malls in shopping complexes A discussion is included of the factors which need to be considered when specifying the hardware ventilators smoke curtains etc required to implement the design in a building Some advice is also included on factors to be considered in installing the system in buildings how to test the functioning of the equipment separately and as a complete system once it has been installed and good practice measures involving the management and maintenance of the system when the building is in everyday use The purpose of this book therefore is to provide practical guidance on the design of smoke control systems It reflects current knowledge and is based on the results of research where available including as yet unpublished results of experiments In addition it draws on the authors cumulative experience of design features required for regulatory purposes in many individual smoke control applications Many of these design features have evolved over several years by consensus between regulatory authorities developers and fire scientists rather than by specific research The methodology underpinning the book is explicitly empirical in approach and can easily be extended to most buildings Where guidance is necessary to address practical design issues but there are gaps in the established knowledge base the authors have exercised their professional judgement in offering conservative pragmatic advice When guidance is offered in these circumstances any potential weaknesses are made explicit Related to this is the continuance of the philosophy used in the book's predecessor BRE Reports 13 24 that even where a document is difficult to obtain or even verbal private communication is the source of advice it is listed as a reference      **Addressing the Problem with Natural Ventilation** Kristian M. Fennessy, Massachusetts Institute of Technology, Department of Architecture, 2014 Currently the United States alone is responsible for approximately twenty percent of the world's total energy consumption This consumption is equivalent to roughly 100 quadrillion Btu of energy or in plainer terms over 1

trillion in energy expenditures annually This sector alone comprises nearly half of all the energy consumed in the United States Additionally about seventy five percent of all electricity produced in the U S is consumed by building operations This precedent has convinced me that finding an alternative is worth the investment The purpose of my thesis project is to explore substitutes to mechanical heating ventilation and air conditioning HVAC building systems My project revisits the concept of natural ventilation and explores and evaluates its feasibility as an energy saving and comfortable alternative to mechanical ventilation systems Additionally my project focuses on how buildings can be designed to naturally condition the indoor environments of our buildings More specifically I would like to help architects discover how they can utilize natural ventilation effectively Using the TRNSYS simulation environment I methodically show how a designer would use TRNSYS to make informed decisions about natural ventilation in their designs My research is meant to be a valuable tool for other designers who are unsure or uncomfortable with utilizing this natural process to condition their buildings The final deliverable of my thesis project is a comprehensive strategy for designers to incorporate natural ventilation in the early stages of their building design

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