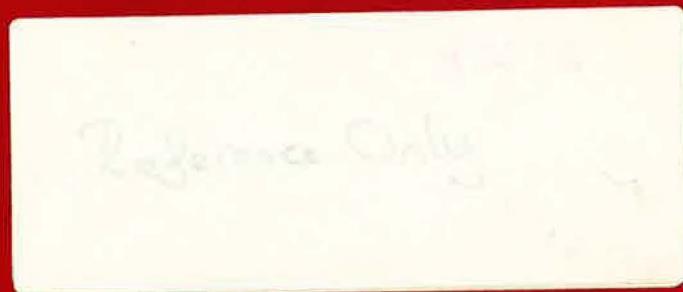




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INTERNATIONAL ENERGY AGENCY  
energy conservation in buildings and  
community systems programme

● Technical Note AIC 15

A subject analysis of the AIC's  
bibliographic database – AIRBASE  
(3rd edition)



March 1984



Air Infiltration Centre

Old Bracknell Lane West, Bracknell,  
Berkshire, Great Britain, RG12 4AH

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**Annex V Air Infiltration Centre**

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**#3312**

**AIVC Technical Note 15**

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# **A subject analysis of the AIC's bibliographic database – AIRBASE (3rd edition)**

Catriona Thompson

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## PREFACE

### **International Energy Agency**

In order to strengthen cooperation in the vital area of energy policy, an Agreement on an International Energy Program was formulated among a number of industrialised countries in November 1974. The International Energy Agency (IEA) was established as an autonomous body within the Organisation for Economic Cooperation and Development (OECD) to administer that agreement. Twenty-one countries are currently members of the IEA, with the Commission of the European Communities participating under a special arrangement.

As one element of the International Energy Program, the Participants undertake cooperative activities in energy research, development, and demonstration. A number of new and improved energy technologies which have the potential of making significant contributions to our energy needs were identified for collaborative efforts. The IEA Committee on Energy Research and Development (CRD), assisted by a small Secretariat staff, coordinates the energy research, development, and demonstration programme.

### **Energy Conservation in Buildings and Community Systems**

The International Energy Agency sponsors research and development in a number of areas related to energy. In one of these areas, energy conservation in buildings, the IEA is sponsoring various exercises to predict more accurately the energy use of buildings, including comparison of existing computer programs, building monitoring, comparison of calculation methods, etc. The difference and similarities among these comparisons have told us much about the state of the art in building analysis and have led to further IEA sponsored research.

### **Annex V Air Infiltration Centre**

The IEA Executive Committee (Building and Community Systems) has highlighted areas where the level of knowledge is unsatisfactory and there was unanimous agreement that infiltration was the area about which least was known. An infiltration group was formed drawing experts from most progressive countries, their long term aim to encourage joint international research and to increase the world pool of knowledge on infiltration and ventilation. Much valuable but sporadic and uncoordinated research was already taking place and after some initial groundwork the experts group recommended to their executive the formation of an Air Infiltration Centre. This recommendation was accepted and proposals for its establishment were invited internationally.

The aims of the Centre are the standardisation of techniques, the validation of models, the catalogue and transfer of information, and the encouragement of research. It is intended to be a review body for current world research, to ensure full dissemination of this research and based on a knowledge of work already done to give direction and a firm basis for future research in the Participating Countries.

The Participants in this task are Belgium, Canada, Denmark, Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom and the United States.



## INTRODUCTION

The Air Infiltration Centre's bibliographic database, *AIRBASE*, contains abstracts in English of technical papers covering air infiltration in buildings. The majority of articles are concerned with the prediction, measurement and reduction of air infiltration and leakage rates; also included are selected abstracts of related papers on

- indoor air quality
- occupant behaviour
- thermal comfort
- ventilation efficiency
- natural and mechanical ventilation
- wind pressure and its influence on infiltration
- energy saving measures

A total of 1276 articles are currently referenced and each can be accessed using a free-text retrieval system. On-line searches are carried out by the AIC in response to enquiries on particular topics. As part of this information service, the contents of *AIRBASE* form the basis of several reports and bulletins published by the Centre. The most important of these is 'Recent Additions to *AIRBASE*', a bi-monthly bulletin listing all new entries. The results of *AIRBASE* searches on popular subjects are published as literature lists which are regularly updated as further information becomes available.

This report presents a subject analysis of the entire database and is intended as a reference manual for users wishing to obtain information on a particular topic. Section 1 of the report contains the analysis itself, in which articles are listed by reference number under one or more of 14 major subject headings. Each heading is further subdivided to give a total of 175 subject areas. Section 2 contains a listing of author, title and bibliographic details in reference number order, thus providing a subject index to the papers referenced in Section 1. A list of principal authors is included in an appendix.



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