Technical Note AIVC 25 A Subject Analysis of the AIVC's Bibliographic Database - AIRBASE (6th edition)

INTERNATIONAL ENERGY AGENCY
energy conservation in buildings and community systems programme

Technical Note AIVC 25

A subject analysis of the AIVC's bibliographic database - AIRBASE (6th edition)

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AIVC

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PREFACE

International Energy Agency

In order to strengthen co-operation in the vital area of energy policy, an Agreement on an International Energy Programme was formulated among a number of industrialized countries in November 1974. The International Energy Agency (IEA) was established as an autonomous body within the Organization for Economic Co-operation 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 Programme, the Participants undertake co-operative 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, co-ordinates the energy research, development and demonstration programme.

Energy Conservation in Buildings and Community Systems

As one element of the Energy Programme, the IEA encourages research and development in a number of areas related to energy. In one of these areas, energy conservation in buildings, the IEA is encouraging various exercises to predict more accurately the energy use of buiildings, including comparison of existing computer programmes, building monitoring, comparison of calculation methods, as well as air quality and inhabitant behaviour studies.

The Executive Committee

Overall control of the R&D programme 'Energy Conservation in Buildings and Community Systems' is maintained by an Executive Committee, which not only monitors existing projects but identifies new areas where collaborative effort may be beneficial. The Executive Committee ensures all projects fit into a predetermined strategy without unnecessary overlap or duplication but with effective liaison and communication.

Annex V Air Infiltration and Ventilation 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 enecourage joint international research and 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 and Ventilation 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 firm basis for future research in the Participating Countries.

The Participants in this task are Belgium, Canada, Denmark, Federal Republic of Germany, Finland, Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom and the United States of America.

INTRODUCTION

The Air Infiltration and Ventilation 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
- moisture and condensation

A total of 2,600 articles are currently referenced and each can be accessed using a free-text retrieval system. On-line searches are carried out by the AIVC 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 quarterly 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 228 areas. New subject divisions in this edition include: reduction of heat losses by wall insulation; requirements for airtightness; demand control strategies; economic considerations in relation to energy saving; problems of asbestos with regard to indoor air pollution; cleanrooms; thermal comfort; air conditioning systems; and cooling.

Section 2 contains a listing of author, title and bibliographic details in reference number order, thus providing an index to the papers referenced in Section 1.

Section 3 contains the *AIRBASE* Thesaurus of keywords, accompanied by a Full Index and Short Index. It is intended as an aid to searching the computerised database itself, and is included here as a useful additional guide to the subject coverage of the database. The FULL INDEX to the thesaurus contains an alphabetical list of the keywords used in *AIRBASE,* together with USE and USED FOR (UF) references, guiding searchers to the preferred term, and a list of broader (BT), narrower (NT) and related (RT) terms for each keyword. BT and NT terms locate the keyword within its hierarchy in the thesaurus, and RT terms provide cross references to other related or useful terms not necessarily within the same section of the thesaurus.

A list of principal authors is given in Section 4.

Some sections of the Subject Index now contain references to many papers. Although the database records are not arranged strictly according to date, an approximate key is as follows:

Up to Reference Number	**Date – up to and including:**	
500	November	1980
1000	September	1982
1250	January	1984
1500	January	1985
2000	May	1986
2600	August	1987

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SECTION 3

AIRBASE Thesaurus

AIRBASE THESAURUS

Contents

1. Buildings
   1.1 Rooms
   1.2 Building components

2. Ventilation
   2.1 Tracer gas
   2.2 Pressurization
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   2.4 Retrofitting

3. Energy

4. Climate

5. Instruments

6. Radioactivity

7. Miscellaneous

KEY

UF – used for
BT – broader term
NT – narrower term
RT – related term

THESAURUS OF TERMS

1. buildings

large building
residential building u.f. dwelling
  house
    townhouse
    terraced house
    rented house
    detached house
    testing house
    multifamily building
      high occupancy spaces
    passive solar building
      passive solar house
        passive solar design
    tight house
      envelope house
    low energy house
  flat
  apartment building
  multi-storey building
  mobile home
  bungalow
  garage

nondomestic building

industrial building
  factory

commercial building
  office building
  bank
  hotel
  supermarket
  department store
  enclosed shopping mall
  auction hall
  animal house
    stables
    cattle
  greenhouse
    atrium
    conservatory
  hangar
    aircraft hangars

public building
  sports building
  museum
  hospital
  school
  university
  library
  laboratory
  theatre
    auditorium
      stage shaft
  opera house

high rise building
low rise building

building design

problem buildings
  sick building
    sick building syndrome

1.1 rooms

attic
basement
kitchen
bedroom
bathroom
cold room
elevator shaft
computer room
cleanroom
workplace
work room
underfloor crawlspace

1.2 building components

wall
  building envelope
  building shape
  cavity wall
    cavity
  party walls
  metal stud wall
  porous wall
  facade
  wood frame
floor
  floor coverings
ceiling
  porous ceiling
roof
  roof space
  ridge vent
    open ridge
  baffles
window
  double glazing
  single glazing
  triple glazing
  storm window
  shutter
  blind
    roller blind
door
  storm door
doorway
chimney
spires
flue
fume hood
duct
boiler

construction detail
  cavity barrier
  vapour barrier
  air barrier
  air-vapour barrier
  joint
  soffit
  grating
  insulation
    superinsulation
  foundation
  air inlets
  vent
    air vent
      supply vent

extract vent
extract ventilation
extractor fan

building material
brick
stone
wood
concrete
paint
plaster
chipboard
asbestos
pipe

installation techniques
maintenance
structural fault

2. ventilation

air change rate
air change
natural ventilation
passive ventilation
stack
stack effect
stack pressure
stack ventilation
neutral pressure level
neutral zone
air infiltration
infiltration rate
crack
crack length
openings
draughts
mechanical ventilation
controlled ventilation
demand control
demand-controlled ventilation
user control
active ventilation
air conditioning
filtration
air cleaning
displacement ventilation
mixing ventilation
cross ventilation
ventilation air
ventilation effectiveness
ventilation efficiency
ventilation heat loss
ventilation rate
minimum ventilation rate
ventilation requirements
ventilation strategy
ventilation system
integrated ventilation
gravitational ventilation

2.1 tracer gas

tracer gas measurements
environmental chamber
multi chamber
testing chamber
testing unit
decay rate
constant concentration
constant emission
mixing
argon
krypton
xenon
sulphur hexafluoride
oxygen
perfluorocarbon
methane
helium
hydrogen
coal gas
chlorothene
ethane
freon
ammonia
carbon dioxide
carbon monoxide
nitrous oxide

2.2 pressurization

air leakage
leakage area
leakage path
component leakage
air tightness
air velocity
air pressure
internal pressure
pressurization correlation
pressurization testing
overpressure
fan depressurization
house depressurization
component pressurization
alternating pressure
thermography
thermogram
sound
performance testing

2.3 ventilation needs

indoor climate
air movement
smoke movement
thermal comfort
health
disease
cancer
lung cancer
carcinogen
allergies
irritation
irritant
infection
respiratory illness
hygiene
passive smoking
air quality
indoor air quality
outdoor air
outdoor air quality
environment pollution
pollution
pollutant
biological pollutant
organic compound
hydrocarbon
microbiology
bacteria
particle
mould
chemical pollutant
toxic gas

smoke
tobacco smoke
particulate
dust
odour
body odour
aerosol
sulphur dioxide
nitrogen dioxide
nitrogen oxides
nitric oxide
formaldehyde
pentachlorphenol
ozone
thoron
combustion product

2.4 retrofitting

retrofit u.f. weatherization
weatherstripping
draughtproofing
draughtstripping
terrain effects
shielding
shelter belt
windbreak
shade
vegetation
trees
fence
hedge
sealing
caulking
sealant
mastic
house doctor

3. energy

energy conservation
energy consumption
water consumption
energy losses
energy audit
energy balance
energy efficiency
energy needs
energy policy
energy saving USE energy conservation

heat transfer
heat loss
heat recovery
heat storage
heating
passive heating
heating system
space heating
air heating
floor heating
combustion heating
radiator
heating needs
electric heating
gas
gas heating
gas appliance
gas cooking
gas stove
stove
solar heating
furnace

4. climate

hot climate
desert climate
cold climate
dry climate

weather
sun
rain
frosting

moisture
water
water vapour
damp
humidity
humidity control
condensation
interstitial condensation
surface condensation
air flow
dry air
wind
wind speed
mean wind speed
wind direction
wind pressure
wind effect
turbulence
turbulence intensity
turbulent air flow
flow
turbulent flow
laminar flow
convection
temperature
temperature difference
cooling
pressure
pressure difference
pressure distribution
pressure fluctuation
pressure coefficient
mean pressure coefficient
pressure differential
pressure drop
pressure testing
induced pressure testing
surface pressure

5. instruments

instrumentation
measurement
measurement technique
automatic equipment
blower
blower door
fan
anenometer
manometer
transducer
permeameter
chromatograph
concentration meter
stroboscope
katharometer
probe
computer
data logger
microprocessor

heat exchanger
  air-to-air heat exchanger
  thermal wheel
heat pump
air curtain
air lock

sample bag
sample bottle
filter
scintillation counter
wind tunnel
  wind tunnel testing
  roughness fetch
  boundary layer
  shear layer
humidifier
  humidification
dehumidifier
  dehumidification
hot box
electrostatic precipitator
sampler
passive sampler
  passive sampling
personal monitors
sensor

6. radioactivity

radioactive
radiation
  background radiation
alpha particle
beta radiation
gamma rays
radon
  radon daughter
soil
emanation

7. miscellaneous

modelling
  model
  theoretical modelling
  numerical modelling
  empirical models
  mathematical model
  mathematical modelling
  calculation techniques
  correlation
  prediction
  computer model
  nomogram
ageing
diffusion
porosity
permeability
design
simulation
validation

standard
building code
patent

market study
questionnaire

review
cost effectiveness
economic analysis

occupancy effects
  occupant
  occupant behaviour
  occupant control
  occupant reaction
  window opening
  door opening
  open window
  comfort
    human comfort

thermal analysis
thermal conductivity
thermal efficiency
thermal gradient
thermal insulation
thermal mass
thermal performance
thermal requirements
thermal resistance

testing

FULL INDEX TO AIRBASE THESAURUS

A

active ventilation
BT controlled ventilation
RT demand control
demand-controlled ventilation
user control
passive ventilation

aerosol
BT chemical pollutant

ageing

air barrier
BT construction detail
RT cavity barrier
vapour barrier
air-vapour barrier
wind barrier
air leakage
air infiltration
building envelope
insulation

air change
BT air change rate

air change rate
UF air exchange
air renewal
air recirculation rate
BT ventilation (2)
NT air change
RT natural ventilation
air infiltration
draughts
mechanical ventilation
ventilation rate
infiltration rate

air cleaning
BT air conditioning
RT filtration
filter

air conditioning
BT ventilation (2)
NT filtration
air cleaning
RT air change rate
natural ventilation
air infiltration
draughts
mechanical ventilation

air curtain
BT instruments (5)

air exchange USE air change rate

air exchange rate USE air change rate

air flow
BT climate (4)
NT dry air
wind
wind speed
wind direction
wind pressure
wind effect
turbulence
convection
RT air movement
air leakage

air heating
BT heating
RT passive heating
heating system
space heating
combustion heating

air infiltration
BT ventilation (2)
NT infiltration rate
crack
crack length
openings
RT air change rate
natural ventilation
draughts

air inlets
BT construction detail
RT vent
air leakage
air infiltration

air leakage
BT pressurization (2.2)
NT leakage area
leakage path
component leakage
air tightness
air velocity
air pressure
internal pressure
RT pressurization correlation
pressurization testing
overpressure
fan depressurization
house depressurization
component pressurization
alternating pressure
thermography
performance testing

air lock
BT instruments (5)

air movement
BT ventilation needs (2.3)
NT smoke movement
RT indoor climate
thermal comfort
air quality
draughts
air velocity
air flow
air infiltration
air leakage

air permeability USE permeability

air pollution USE pollution

air pressure
BT air leakage
RT leakage area
leakage path
component leakage
air tightness
air velocity
internal pressure

air quality
BT ventilation needs (2.3)
NT indoor air quality
outdoor air
outdoor air quality
environment pollution
RT indoor climate
health

air quality sensors USE sensor + air quality

air recirculation rate USE air change rate

air renewal USE air change rate

air speed USE air velocity

air tightness
BT air leakage
RT leakage area
leakage path
component leakage
air velocity
air pressure
internal pressure
tight house

air velocity
BT air leakage
RT leakage area
leakage path
component leakage
air tightness
air pressure
internal pressure
wind speed

air vent
BT vent
NT supply vent
extract vent
RT air inlets

air-to-air heat exchanger
BT heat exchanger
RT thermal wheel

air-vapour barrier
BT construction detail
RT cavity barrier
vapour barrier
air barrier
wind barrier
air leakage
air infiltration
building envelope
insulation

aircraft hangars
BT hangar
RT large building

airflow windows USE window

allergic disease USE allergies

allergies
UF allergic disease
BT health
RT disease
irritation
respiratory illness
hygiene
passive smoking

alpha particle
BT radioactivity (6)
RT radioactive
radiation
beta radiation
gamma rays
radon
soil
emanation

alternating pressure
BT pressurization (2.2)
RT air leakage
pressurization correlation
component pressurization
overpressure
thermography
sound
performance testing

ammonia
BT tracer gas (2.1)

anemometer
BT instruments (5)

animal house
BT commercial building
NT stables
cattle

apartment building
BT residential building
RT flat
house
multi-storey building
high occupancy spaces

argon
BT tracer gas (2.1)

array

asbestos
BT building material
RT brick
stone
wood
concrete
chipboard
pollutant
air quality
health

atrium
BT greenhouse
RT conservatory
solar

attic
UF loft
BT rooms (1.1)
RT basement
roof

auction hall
BT commercial building
RT office building
bank
hotel
supermarket
department store
enclosed shopping mall

auditorium
BT theatre
NT stage shaft
RT opera house

automatic equipment
BT measurement technique

B

background radiation
BT radiation

bacteria
BT biological pollutant
RT organic compound
microbiology
particle
mould

baffles
BT roof
RT roof space
ridge vent

bank
BT commercial building
RT office building
hotel
supermarket
department store
enclosed shopping mall
auction hall

basement
BT rooms (1.1)
RT underfloor crawlspace
foundation

bathroom
BT rooms (1.1)
RT kitchen
bedroom

bedroom
BT rooms (1.1)
RT kitchen
bathroom

beta radiation
BT radioactivity (6)
RT radioactive
radiation
alpha particle
gamma rays
radon
soil
emanation

biological pollutant
BT pollutant
RT organic compound
microbiology
bacteria
particle
chemical pollutant
mould

blind
BT window
NT roller blind
RT storm window
shutter

blower
BT instruments (5)
NT blower door
RT fan
pressurization testing
air leakage

blower door
BT blower

blower door tests USE blower door + testing

body odour
BT odour

boiler
BT building component (1.2)
RT flue
fume hood

boundary layer
BT wind tunnel
RT wind tunnel testing
roughness fetch
shear layer

brick
BT building material
RT stone
wood
concrete
chipboard
asbestos

building code
RT standard
patent

building component (1.2)
NT wall
floor
ceiling
roof
window
door
doorway
chimney
spires
flue
fume hood
duct
boiler
construction detail

building design
BT buildings (1)
RT problem buildings
building envelope
building shape
design

building envelope
BT wall
RT building shape
cavity wall
tight house
insulation

building material
BT building component (1.2)
NT brick
stone
wood
concrete
chipboard
asbestos
pipe
RT construction detail
maintenance
structural fault

building shape
BT wall
RT building envelope
building design

buildings (1)
NT large building
residential building
nondomestic building
commercial building
public building

bungalow
BT residential building
RT house
flat
apartment building
multi-storey building
mobile home

C
calculation USE calculation techniques

calculation methods USE calculation techniques

calculation techniques
UF calculation
calculation methods
RT modelling
model
theoretical modelling
numerical modelling
empiral models
mathematical model
mathematical modelling
correlation
prediction
computer model
nomogram

cancer
BT disease
NT lung cancer
carcinogen

carbon dioxide
BT tracer gas (2.1)

carbon monoxide
BT tracer gas (2.1)
RT pollutant

carcinogen
BT cancer
RT lung cancer

carpet USE floor coverings

cattle
BT animal house
RT stables

caulking
BT retrofitting (2.4)
NT sealant
mastic
RT sealing
weatherstripping
shielding
house doctor

cavity
BT cavity wall

cavity barrier
BT construction detail
RT vapour barrier
air barrier
air-vapour barrier
insulation

cavity wall
BT wall
NT cavity
RT building envelope
building shape
party walls
metal stud wall
porous wall
facade
cavity barrier
insulation

ceiling
BT building component (1.2)
NT porous ceiling
RT roof

chemical pollutant
BT pollutant
RT biological pollutant
particle

chimney
BT building component (1.2)
RT roof
flue
fume hood
duct

chipboard
BT building material
RT brick
stone
wood
concrete
asbestos
formaldehyde

chlorothene
BT tracer gas (2.1)

chromatograph
BT instruments (5)

cleanroom
UF clean room
BT rooms (1.1)
RT computer room
laboratory

clean room USE cleanroom

climate (4)
NT hot climate
cold climate
dry climate
weather
air flow
temperature
pressure

coal gas
BT tracer gas (2.1)

cold climate
BT climate (4)
RT hot climate
dry climate

cold room
UF cold store
BT rooms (1.1)

cold store USE cold room

combustion heating
BT heating
RT passive heating
heating system
space heating
air heating
floor heating

combustion product
BT chemical pollutant

comfort
BT occupancy effect
NT human comfort
RT occupant reaction
thermal comfort

commercial building
BT buildings (1)
NT office building
bank
hotel
supermarket
department store
enclosed shopping mall
auction hall
animal house
greenhouse
hangar
RT large building
residential building
nondomestic building
industrial building
public building
high rise building
low rise building
building design
problem buildings

component leakage
BT air leakage
RT leakage area
leakage path
air tightness
air velocity
air pressure
internal pressure

component pressurization
BT pressurization (2.2)
RT air leakage
pressurization correlation
pressurization testing
fan depressurization
house depressurization
alternating pressure
thermography
sound
performance testing
overpressure
component leakage

computer
BT instruments (5)
NT data logger
microprocessor
RT computer model
computer room

computer model
BT modelling
RT model
theoretical modelling
numerical modelling
empirical modelling
mathematical modelling
mathematical model
calculation techniques
correlation
prediction
nomogram
computer
computer room

computer room
BT rooms (1.1)
RT cleanroom

concentration meter
BT instruments (5)

concrete
BT building material
RT brick
stone
wood
chipboard
asbestos

condensation
BT moisture
NT interstitial condensation
surface condensation
RT water
humdity
mould

conservatory
BT greenhouse
RT atrium

constant concentration
BT tracer gas (2.1)
RT constant emission

constant emission
BT tracer gas (2.1)
RT constant concentration

construction detail
BT building component (1.2)
NT cavity barrier
vapour barrier
air-vapour barrier
joint
soffit
grating
insulation
foundation
air inlets
vent

contaminant USE pollutant

controlled ventilation
BT mechanical ventilation
NT demand control
demand-controlled ventilation
user control
active ventilation
RT occupant control

convection
BT air flow
RT wind
wind speed
wind direction
wind pressure
wind effect
turbulence

cooling
BT temperature
RT temperature difference

correlation
BT modelling
RT model
theoretical modelling
numerical modelling
empirical models
mathematical modelling
mathematical model
calculation techniques
prediction
computer model
nomogram

cost effectiveness
RT economic analysis
energy conservation
energy audit
energy efficiency

crack
BT air infiltration
RT infiltration rate
crack length
openings

crack length
BT air infiltration
RT infiltration rate
crack
openings

cross ventilation
BT ventilation (2)
RT natural ventilation
mechanical ventilation
displacement ventilation
mixing ventilation
gravitational ventilation

D

damp
BT water
RT water vapour
noise
humidity
condensation

data logger
BT computer
RT microprocessor

decay rate
UF rate of decay
BT tracer gas (2.1)

dehumidification
BT dehumidifier
RT humidification

dehumidifier
BT instruments (5)
NT dehumidification
RT humidifier
humidity
dry air

demand control
BT controlled ventilation
RT demand-controlled ventilation
user control
active ventilation
occupant control

demand-controlled ventilation
BT controlled ventilation
RT demand control
user control
active ventilation
occupant control

department store
BT commercial building
RT office building
bank
hotel
supermarket
enclosed shopping mall
auction hall

desert climate
BT hot climate

design
RT modelling
simulation
validation
building design

detached house
BT house
RT townhouse
terraced house
rented house
testing house
multifamily building
bungalow

diffusion

disease
BT health
NT cancer
RT allergies
irritation
respiratory illness
hygiene
passive smoking

displacement ventilation
BT ventilation (2)
RT natural ventilation
mechanical ventilation
mixing ventilation
cross ventilation
gravitational ventilation

door
BT building component (1.2)
NT storm door
RT wall
floor
roof
window
doorway
blower door
door opening

door opening
BT occupancy effects
RT occupants
occupant behaviour
occupant control
occupant reaction
window opening
door
doorway

doorway
BT building component (1.2)
RT door
door opening

double glazing
BT window
RT single glazing
triple glazing
storm window

draughtproofing
BT weatherstripping
RT retrofitting (2.4)
draughts

draughts
BT ventilation (2)
RT air change rate
natural ventilation
air infiltration
mechancial ventilation
air conditioning

draughtstripping
BT draughtproofing

dry air
BT air flow
RT humidifier

dry climate
BT climate (4)
RT hot climate
cold climate
dry air

duct
BT building component (1.2)
RT chimney
flue
fume hood
pipe

dust
BT particulate

dwelling USE residential building

E

economic analysis
RT standard
building code
patent
market study
questionnaire
review
cost effectiveness
energy audit

electric heating
BT heating
RT heating system
space heating
air heating
floor heating
combustion heating
radiator
heating needs
gas heating
solar heating

electrostatic precipitator
BT instruments (5)

elevator shaft
UF lift shaft
BT rooms (1.1)
RT stage shaft
duct

emanation
BT radioactivity (6)
RT radioactive
radiation
alpha particle
beta radiation
gamma rays
radon
soil

empirical models
BT modelling
RT model
theoretical modelling
numerical modelling
mathematical modelling
mathematical model
calculation techniques
correlation
prediction
computer model
nomogram

enclosed shopping mall
BT commercial building
RT office building
bank
hotel
supermarket
department store
auction hall

energy (3) SEE THESAURUS

energy audit
BT energy (3)

energy balance
BT energy (3)

energy conservation
UF energy saving
energy economy
BT energy (3)

energy consumption
BT energy (3)

energy economy USE energy conservation OR energy efficiency

energy efficiency
BT energy (3)
RT ventilation efficiency

energy losses
BT energy (3)

energy needs
BT energy (3)

energy policy
BT energy (3)

energy saving USE energy conservation

envelope house
BT tight house

environment pollution
BT air quality
NT pollution
RT indoor air quality
outdoor air
outdoor air quality

environmental chamber
BT tracer gas (2.1)

ethane
BT tracer gas (2.1)

extract vent
BT air vent
NT extract ventilation
RT supply vent

extract ventilation
BT extract vent
NT extractor fan
RT ventilation (2)
air conditioning

extractor fan
BT extract ventilation

F

facade
BT wall
RT building shape
bulding envelope
cavity wall
wood frame

factory
BT industrial building

fan
BT instruments (5)
RT blower
fan depressurization
fan pressurization method
extractor fan

fan depressurization
BT pressurization (2.2)
RT air leakage
pressurization correlation
pressurization testing
house depressurization
component pressurization
alternating pressure
thermography
sound
performance testing
overpressure
fan

fence
BT shielding
RT shelter belt
windbreak
vegetation
trees
hedge

filter
BT instruments (5)
RT filtration

filtration
BT air conditioning
RT air cleaning
filter

flat
BT residential building
RT apartment building
house
multi-storey building
bungalow

floor
BT building component (1.2)
NT floor coverings
RT floor heating

floor coverings
UF carpet
BT floor

floor heating
BT heating
RT passive heating
heating system
space heating
air heating
combustion heating

flow
BT turbulence
RT turbulence intensity
turbulent air flow
turbulent flow
laminar flow

flue
BT building component (1.2)
RT chimney
fume hood
duct
pipe
vent

formaldehyde
BT chemical pollutant

foundation
BT construction detail
RT basement
underfloor crawlspace

freon
BT tracer gas (2.1)

frosting
BT weather

fume hood
BT building component (1.2)
RT chimney
flue
duct

furnace
BT energy (3)

G

gamma rays
BT radioactivity (6)
RT radioactive
radiation
alpha particle
beta radiation
radon
soil
emanation

garage
BT residential building
RT gas heating
multi-storey building

gas
BT energy (3)
RT gas heating
gas appliance

gas appliance
BT gas heating
NT gas cooking
gas stove

gas cooking
BT gas appliance
RT gas stove

gas heating
BT energy (3)
NT gas appliance
RT energy consumption
energy needs
heating
heating needs
electric heating
gas
stove
solar heating

gas stove
BT gas appliance
RT gas cooking
stove

grating
BT construction detail
RT joint
soffit
air inlets
vent

gravitational ventilation
BT ventilation (2)
RT natural ventilation
mechanical ventilation
displacement ventilation
mixing ventilation
cross ventilation

greenhouse
BT commercial building
NT atrium
conservatory
RT passive solar building

H

hangar
BT commercial building
NT aircraft hangars
RT large building

health
BT ventilation needs (2.3)
NT disease
allergies
irritation
respiratory illness
hygiene
passive smoking
RT air quality

heat exchanger
BT instruments (5)
NT air-to-air heat exchanger
thermal wheel

heat loss
BT heat transfer
RT heat recovery
heat storage
energy losses
ventilation heat loss

heat pump
BT instruments (5)

heat recovery
BT heat transfer
RT heat loss
heat storage
heat pump
heat exchanger

heat storage
BT heat transfer
RT heat loss
heat recovery

heat transfer
BT energy (3)
NT heat loss
heat recovery
heat storage
RT energy losses
heat exchanger

heater USE heating system OR radiator

heating
BT energy (3)
NT passive heating
heating system
space heating
air heating
floor heating
combustion heating
RT energy consumption
radiator
heating needs
electric heating
gas heating
solar heating

heating needs
BT energy (3)
RT energy consumption
heating
radiator
electric heating
gas heating
solar heating

heating system
BT heating
RT passive heating
space heating
air heating
floor heating
combustion heating

hedge
BT shielding
RT shelter belt
windbreak
vegetation
trees
fence

helium
BT tracer gas (2.1)

high-occupancy spaces
BT multifamily building

high rise building
BT buildings (1)
RT low rise building

hospital
BT public building
RT museum
sports building
school
university
library
laboratory
theatre
opera house

hotbox
UF hot box
BT instruments (5)

hot box USE hotbox

hot climate
BT climate (4)
NT desert climate
RT cold climate
dry climate

hotel
BT commercial building
RT office building
bank
supermarket
department store
enclosed shopping mall
auction hall

house
BT residential building
NT townhouse
terraced house
rented house
testing house
multifamily building
passive solar building
tight house
RT flat
apartment building
multi-storey building
mobile home
bungalow
garage

house depressurization
BT pressurization (2.2)
RT air leakage
pressurizaiton correlation
pressurization testing
overpressure
fan depressurization
component pressurization
alternating pressure
thermography
sound
performance testing

house doctor
BT retrofitting (2.4)
RT weatherstripping
sealing
caulking

human comfort
BT comfort

humidification
BT humidifier
RT dehumidification

humidifier
BT instruments (5)
NT humidification
RT dehumidifier
humidity
dry air

humidity
BT moisture
NT humidity control
RT water
water vapour
damp
condensation
humidifier
dehumidifier

humidity control
BT humidity

hydrocarbon
BT biological pollutant
RT organic compound
microbiology
bacteria
particle
mould

hydrogen
BT tracer gas (2.1)

hygiene
BT health
RT disease
allergies
irritation
infection
respiratory illness
passive smoking

I

indoor air quality
BT air quality
RT outdoor air
outdoor air quality
environment pollution

indoor climate
BT ventilation needs (2.3)
RT air movement
thermal comfort
health
air quality

indoor environment USE indoor climate

induced pressure test USE induced pressure testing

induced pressure testing
BT pressure testing

induced pressure testing
BT pressure testing

industrial building
BT buildings (1)
NT factory
RT large building
residential building
nondomestic building
commercial building
public building

infection
BT health
RT disease
allergies
irritation
respiratory illness
hygiene
passive smoking
air quality

infiltration rate
BT air infiltration
RT crack
crack length
openings
air change rate
ventilation rate

installation techniques
BT building component (1.2)
RT maintenance

instrumentation
BT instruments (5)

instruments (5) SEE THESAURUS

insulation
BT construction detail
NT superinsulation
RT cavity barrier
vapour barrier
air barrier
air-vapour barrier
joint
retrofit
tight house
building envelope
air tightness
energy conservation
thermal comfort
thermal insulation

integrated ventilation
BT ventilation system

internal pressure
BT air leakage
RT leakage area
leakage path
component leakage
air tightness
air velocity
air pressure

interstitial condensation
BT condensation
RT surface condensation
cavity wall

irritant
BT irritation

irritation
BT health
NT irritant
RT disease
allergies
respiratory illness
hygiene
passive smoking

J

joint
- BT construction detail
- RT soffit
  - grating
  - insulation
  - retrofit

K

katharometer
- BT instruments (5)

kitchen
- BT rooms (1.1)
- RT bedroom
  - bathroom

krypton
- BT tracer gas (2.1)

L

laboratory buildings USE laboratory

laboratory
- BT public building
- RT hospital
  - school
  - university
  - clean room
  - computer room

laminar flow
- BT turbulence
- RT turbulence intensity
  - turbulent air flow
  - flow
  - turbulent flow

large building
- BT buildings (1)
- RT industrial building
  - multifamily building
  - high occupancy spaces
  - multi-storey building
  - commercial building

leakage area
- BT air leakage
- RT leakage path
  - component leakage
  - air tightness
  - air velocity
  - air pressure
  - internal pressure

leakage path
- BT air leakage
- RT leakage area
  - component leakage
  - air tightness
  - air velocity
  - air pressure
  - internal pressure

library
- BT public building
- RT museum
  - school
  - university
  - theatre

lift shaft USE elevator shaft

loft USE attic

low energy housing USE low energy house

low energy house
- UF low energy housing
- BT house
- RT townhouse
  - terraced house
  - rented house
  - detached house
  - testing house
  - multifamily building
  - passive solar building
  - tight house

low rise building
- BT buildings (1)
- RT high rise building

lung cancer
- BT cancer
- RT carcinogen

M

maintenance
- BT building component (1.2)
- RT installation techniques

manometer
- BT instruments (5)

market study
- RT questionnaire
  - review
  - economic analysis

mastic
- BT caulking
- RT sealant

mathematical model
- BT modelling
- RT model
  - theoretical modelling
  - numerical modelling
  - empirical models
  - mathematical modelling
  - calculation techniques
  - correlation
  - prediction
  - computer model
  - nomogram

mathematical modelling
- BT modelling
- RT model
  - theoretical modelling
  - numerical modelling
  - empirical models
  - mathematical model
  - correlation
  - prediction
  - computer model
  - nomogram

mean pressure coefficient
- BT pressure coefficient

mean wind speed
- BT wind speed

measurement
- BT instruments (5)
- RT measurement technique

measurement methods USE measurement technique

measurement technique
UF measurement methods
BT instruments (5)
NT automatic equipment
RT measurement

mechanical ventilation
BT ventilation (2)
NT controlled ventilation
RT air change rate
natural ventilation
air infiltration
air conditioning
displacement ventilation
mixing ventilation
cross ventilation
ventilation air
ventilation effectiveness
ventilation efficiency
ventilation heat loss
ventilation rate
ventilation requirements
ventilation strategy
ventilation system
gravitational ventilation

metal stud wall
BT wall
RT building envelope
cavity wall
party walls
porous wall
facade
wood frame

methane
BT tracer gas (2.1)

microbiology
BT biological pollutant
RT organic compound
bacteria
particle
mould

microprocessor
BT computer
RT data logger

minimum ventilation rate
BT ventilation rate

mixing
BT tracer gas (2.1)
RT mixing ventilation

mixing ventilation
BT ventilation (2)
RT natural ventilation
mechancial ventilation
displacement ventilation
cross ventilation
gravitational ventilation
mixing

mobile home
BT residential building
RT house
flat
apartment building
multi-storey building
bungalow

model
BT modelling
RT theoretical modelling
numerical modelling
empirical models
mathematical modelling
mathmatical model
calculation techniques
correlation
prediction
computer model
nomogram

modelling
NT model
theoretical modelling
numerical modelling
empirical models
mathematical modelling
mathematical model
calculation techniques
correlation
prediction
computer model
nomogram
RT ageing
diffusion
porosity
peremeability
design
simulation
validation

moisture
NT water
humidity
condensation
RT mould

mould
BT biological pollutant
RT organic compound
microbiology
bacteria
particle
humidity

multi-chamber
BT tracer gas (2.1)
RT environmental chamber
testing chamber

multifamily building
UF multifamily house
BT house
NT high occupancy spaces
RT townhouse
terraced house
rented house
detached house
testing house
passive solar building
apartment building

multifamily house USE multifamily building

multi-storey building
BT residential building
RT house
flat
apartment building
mobile home
bungalow
garage

museum
BT public building
RT library
theatre
sports building
hospital
school
university
laboratory
opera house

N

natural ventilation
BT ventilation (2)
NT passive ventilation
stack
stack effect
stack pressure
stack ventilation
neutral pressure level
RT mechanical ventilation
air change rate
air infiltration
draughts
displacement ventilation

neutral pressure level
BT natural ventilation
RT stack
stack effect
stack pressure
stack ventilation
neutral zone

neutral zone
BT natural ventilation
RT passive ventilation
stack
stack effect
stack pressure
stack ventilation
neutral pressure level
wind pressure

nitric oxide
BT chemical pollutant

nitrogen dioxide
BT chemical pollutant

nitrogen oxides
BT chemical pollutant

nitrous oxide
BT tracer gas (2.1)

nomogram
BT modelling
RT model
theoretical modelling
numerical modelling
empirical models
mathematical modelling
mathematical model
calculation techniques
correlation
prediction
computer

nondomestic building
BT buildings (1)
RT large buildings
residential building
industrial building
commercial building
public building
low rise building
problem buildings

numerical modelling
BT modelling
RT model
theoretical modelling
empirical models
mathematical modelling
mathematical model
calculation techniques
correlation
prediction
computer model
nomogram

O

occupancy effects
NT occupants
occupant behaviour
occupant control
occupant reaction
window opening
door opening
open window
comfort

occupant
BT occupancy effects
RT occupant behaviour
occupant control
occupant reaction
window opening
open window
comfort

occupant behaviour
BT occupancy effects
RT occupants
occupant control
occupant reaction
window opening
door opening
open window
comfort

occupant control
BT occupancy effects
RT occupants
occupant behaviour
occupant reaction
window opening
door opening
comfort
controlled ventilation

occupant reaction
BT occupancy effects
RT occupants
occupant behaviour
occupant control
window opening
door opening
open window
comfort

odour
BT air quality
NT body odour
RT indoor air quality
pollution
mould

office

office building
BT commercial building
RT bank
hotel
supermarket
department store
enclosed shopping mall
auction hall
animal house
greenhouse
hangar

open ridge
BT ridge vent

open window
BT occupancy effects
RT window
window opening
door opening

openings
BT air infiltration
RT infiltration rate
crack
crack length

opera house
BT public building
RT museum
school
university
library
theatre

organic compound
BT pollutant
RT microbiology
biological pollutant
bacteria
particle

organic substance USE organic compound

outdoor air
BT air quality
RT indoor air quality
outdoor air quality
environment pollution

outdoor air quality
BT air quality
RT indoor air quality
outdoor air
environment pollution

outdoor temperature USE outdoor air + temperature

overpressure
BT pressurization (2.2)

oxygen
BT tracer gas (2.1)

ozone
BT chemical pollutant

P

paint
BT concrete
RT plaster

particle
BT biological pollutant
RT organic compound
microbiology
bacteria
mould
smoke
particulate
aerosol

particulate
BT air quality
NT dust
RT indoor air quality
environment pollution
pollution
smoke
combustion product

party walls
BT wall
RT cavity wall
metal stud wall
porous wall
facade
wood frame

passive heating
BT heating
RT heating system
space heating
air heating
floor heating
combustion heating

passive sampler
BT instruments (5)
NT passive sampling
RT sampler
sampling
sample bag
sample bottle

passive sampling
BT passive sampler

passive smoking
BT health
RT cancer
disease
allergies
irritation
respiratory illness
pollution
tobacco
particulate
odour
carbon dioxide
carbon monoxide
toxic gas

passive solar building
BT house
NT passive solar house
RT testing house
tight house
low energy house
solar heating
greenhouse

passive solar design
BT passive solar house
RT solar heating
greenhouse
design

passive solar house
BT passive solar building
NT passive solar design
RT solar
solar heating
greenhouse

passive ventilation
BT natural ventilation
RT stack
stack effect
stack pressure
stack ventilation
neutral pressure level
active ventilation
neutral zone

patent
RT standard
building code

pentachlorphenol
BT chemical pollutant

perfluorocarbon
BT tracer gas (2.1)

performance test USE performance testing

performance testing
UF performance test
BT pressurization (2.2)

permeability
RT porosity
permeameter

permeameter
BT instruments (5)
RT permeability

personal monitors
BT instruments (5)

pipe
BT building material
RT brick
stone
wood
concrete
chipboard
asbestos
duct

plaster
BT building material

pollutant
UF contaminant
BT pollution
NT biological pollutant
chemical pollutant

pollution
BT air quality
NT pollutant

porosity
RT permeability
porous wall
porous ceiling

porous ceiling
BT ceiling
RT porosity
porous wall

porous wall
BT wall
RT building envelope
cavity
party walls
metal stud wall
facade
porosity
porous ceiling

prediction
BT modelling
RT theoretical modelling
numerical modelling
empirical models
mathematical modelling
mathematical model
calculation techniques
correlation
computer model
nomogram

pressure
BT climate (4)
BT pressure difference
pressure distribution
pressure fluctuation
pressure coefficient
pressure differential
pressure drop
pressure testing
surface pressure
RT pressurization (2.2)
wind pressure

pressure coefficient
BT pressure
NT mean pressure coefficient
RT pressure difference
pressure distribution
pressure fluctuation
pressure differential
pressure drop
pressure testing
surface pressure

pressure difference
BT pressure
RT pressure distribution
pressure fluctuation
pressure coefficient
pressure differential
pressure drop
pressure testing
surface pressure

pressure differential
BT pressure
RT pressure difference
pressure distribution
pressure fluctuation
pressure coefficient
pressure drop
pressure testing
surface pressure

pressure distribution
BT pressure
RT pressure difference
pressure fluctuation
pressure coefficient
pressure differential
pressure drop
pressure testing
surface pressure

pressure drop
BT pressure
RT pressure difference
pressure distribution
pressure fluctuation
pressure coefficient
pressure differential
pressure testing
surface pressure

pressure fluctuation
BT pressure
RT pressure difference
pressure distribution
pressure coefficient
pressure differential
pressure drop
pressure testing
surface pressure

pressure testing
BT pressure
NT induced pressure testing
RT pressure difference
pressure distribution
pressure fluctuation
pressure coefficient
pressure differential
pressure drop
pressurization testing
house depressurization
surface pressure

pressurization (2.2)
NT air leakage
pressurization correlation
pressurization testing
fan depressurization
house depressurization
component pressurization
alternating pressure
thermography
sound
performance testing
overpressure
RT pressure

pressurization correlation
BT pressurization (2.2)
RT air leakage
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