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Designing Spaces For Natural Ventilation An Architects Guide

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Dr. Esther Sternberg /

TEDxUTA How

Architecture and

Interior Design

Reduce the Risk of

COVID-19 Healing

spaces – the science

of place and well-

being: Esther

Sternberg at

TEDxTucson 2013

Natural Ventilation

and Human Comfort

(Chapter 3) Webinar -

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*Designing Spaces for
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Principles

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How Termites

Inspired a Building

That Can Cool Itself |

Decoder *Cross-*

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Tip Natural ventilation

movie Passive cooling

techniques applied

(Tropical Architecture)

How to cool your

house on the cheap

Natural ventilation

and a forest cocoon

contribute to the

passive design of this

house Passive Solar

Design Principles

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**Natural ventilation
of building**

**simulation with
ANSYS FLUENT**

Ventilation Basics

**Series #1 - Why we
need ventilation**

Fixer Upper Star

Joanna Gaines

**Gives A Tour Of Her
Family Farmhouse |
TODAY**

*Technologies/techniques
for enhancing*

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Designing

natural ventilation

(Manlio Mazzon)

Cross-Ventilation –

Ideas from the NGBS

~~"Designing in Natural~~

~~Light"~~ by Hugh

~~Dutton~~ Ventilation

Basics Series #2 -

System Types Fujioh

Kitchen Ventilation on

Designing Spaces TV

Series ~~How to~~

~~Maximize Natural~~

~~Ventilation for an Eco~~

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~~Lecture~~

~~Pathophysiology of~~

~~Ventilation, O₂,~~

~~u0026 Airway~~

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Designing Spaces For

Natural Ventilation

'A virtual handbook of

theories, principles,

and concepts,

Designing Spaces for

Natural Ventilation is

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Designing

an essential resource for designers, researchers, and students. The authors present both historical and modern examples of successfully naturally ventilated spaces and offer discussions of recent research that challenge the perceptions of "coolth" and thermal

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comfort provided by
air conditioning.'

*Designing Spaces for
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An Architect's ...*

'A virtual handbook of
theories, principles,
and concepts,
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Natural Ventilation is
an essential resource
for designers,
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Students. The authors present both historical and modern examples of successfully naturally ventilated spaces and offer discussions of recent research that challenge the perceptions of "coolth" and thermal comfort provided by air conditioning.'

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An Architect's ...*

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Ventilation* is an
essential resource for
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researchers, and
students. The authors
present both historical

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and modern examples of successfully naturally ventilated spaces and offer discussions of recent research that challenge the perceptions of "coolth" and thermal comfort provided by air ...

*Designing Spaces for
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An Architect's ...

Buy Designing
Spaces for Natural
Ventilation: An
Architect's Guide by
Ulrike Passe
(2015-03-18) by
Ulrike Passe; Francine
Battaglia (ISBN:)
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Designing

Spaces For

*Designing Spaces for
Natural Ventilation:
An Architect's ...*

You can achieve truly natural ventilation, by considering the building's structure, envelope, energy use, and form, as well as giving the occupants thermal comfort and healthy indoor air. By using scientific and

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Designing
Spaces For
architectural
visualization tools
included here, you
can develop
ventilation strategies
without an
engineering
background.

*Designing Spaces for
Natural Ventilation /
Taylor ...*

Natural ventilation
design contributes to

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energy efficiency in residential spaces, while ensuring a supply of fresh air even without a mechanical ventilation system. Section 1203 of the NYC Building Code allows property owners to deploy natural and mechanical ventilation independently or simultaneously.

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However, the code clearly states that natural ventilation is mandatory for any indoor location classified as habitable space by the NYC Building Code.

Designing Residential Buildings for Natural Ventilation

As a designer it is important to

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understand the challenge of simultaneously designing for natural ventilation and mechanical cooling—it can be difficult to design structures that are intended to rely on both natural ventilation and artificial cooling. A naturally ventilated structure often

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includes an articulated plan and large window and door openings, while an artificially conditioned building is sometimes best served by a compact plan with sealed windows.

*Natural Ventilation /
WBDG - Whole
Building Design Guide*
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Designing natural ventilation can become extremely complex because of the interaction between cross ventilation and the stack effect as well as complex building geometries and the distribution of openings. This can require analysis using specialist software

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Designing

Spaces For

such as

computational fluid
dynamics .

Architects

*Natural ventilation of
buildings - Designing
Buildings Wiki*

'A virtual handbook of
theories, principles,
and concepts,

Designing Spaces for
Natural Ventilation is
an essential resource

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Spaces For
researchers, and
students. The authors
present both historical
and modern examples
of successfully
naturally ventilated
spaces and offer
discussions of recent
research that
challenge the
perceptions of
"coolth" and thermal
comfort provided by

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Designing

air conditioning.'

Natural

*Designing Spaces for
Natural Ventilation: An*

An Architect's ...

By using key natural ventilation strategies to ventilate during the day or night (night cooling), mixed mode ventilation reduces the use of mechanical systems and possibly the size of the

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Systems. Like natural ventilation systems with WindowMaster, mixed mode ventilation systems utilize sensors to monitor indoor temperature, CO2 levels, and humidity, as well as outdoor conditions.

*Learn the basics
about natural and*

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Designing

*mixed mode
ventilation ...*

The procedure below
can be used to design
ventilation systems:

Calculate heat or
cooling load, including
sensible and latent
heat Calculate
necessary air shifts
according the number
of occupants and their
activity or any other
special process in the

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Designing

rooms Calculate air
supply temperature

*Design of Ventilation
Systems -*

*Engineering ToolBox
Guide*
Another term

associated with
natural ventilation is
“passive cooling”,
which refers to
designs that do not
use complicated or
sophisticated

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Designing

mechanical For

equipment in order to
induce comfortable...

Ventilation An

10 Natural Ventilation

Tips For Your Home -

One Green Planet

Designing Spaces for
Natural Ventilation:

An Architect's Guide:

Passe, Ulrike,

Battaglia, Francine:

Amazon.sg: Books

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*Designing Spaces for
Natural Ventilation:
An Architect's ...*

'Mixed-mode'

ventilation uses both
natural and
mechanical

ventilation, ... or litres
per second. The
ventilation rate will be
determined by the
type and size of
space and the way it
is occupied (for

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Designing

example, the number
of occupants, sources
of heat, moisture, ...
Designing Buildings
Anywhere.

Guide

Ventilation -

Designing Buildings

Wiki

This has led to a lack
of simple yet robust
tools to guide the
architect through the
implementation of a

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natural ventilation system in the early stages of building design, forcing the architect to choose between the risk of designing a natural ventilation which may not work (and may even lead to higher energy consumption) and the security of a mechanical ventilation and cooling system

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Spaces For
Natural
Ventilation. An
Architects

which he/she knows
will keep the
occupants
comfortable, rain or
shine.

Guide

*Natural Ventilation -
CoolVent*

Local exhaust
ventilation (LEV), or
extraction, is an
engineering control
solution to reduce
exposures to dust,

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Designing

mist, fume, vapour or
gas in a workplace

Use a properly
designed LEV system
that will...

Guide

*Ventilation - Health
and Safety Executive*

Building tightness,
good ventilation for
occupants and natural
ventilation design
should be considered
together for a

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Successful Energy-efficient natural ventilation scheme, as set out in Building Regulations.

Strategies have to be developed for winter and summer often requiring different products and control logic.

NATURAL

VENTILATION

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Designing

STRATEGIES

When the Natural ventilation model option is set to Scheduled, and for heating and cooling design calculations, natural ventilation is defined simply as follows: Check the 'On' checkbox under the Natural Ventilation header. Select the flow type Set the

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Spaces For

natural ventilation rate

in air changes per

hour (if flow type is

1-By zone).

Guide

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