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Annual Lecture
2016 Standard and
adaptive approach
for thermal comfort

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(Federico Butera)

02 Thermal

Comfort Principles
of Thermal Comfort
Contractor Training
Heat Pump

Systems Lecture

16 Fundamentals
of Thermal Comfort

Building Physics -
Adaptive Thermal

Comfort ~~Thermal~~

~~Comfort in Built~~

~~Environment 1~~

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Thermal

Designing for Comfort Guide

outdoor thermal
comfort Thermal
Comfort What is

Thermal Comfort?

MVHR Good

Practice - Peter

Warm of WARM

Low Energy

Building

Consultancy

Passive Solar

Design Principles

Heat Pumps

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Thermal

~~Explained - How~~

Heat Pumps Work

~~HVAC Pump Chart~~

~~Basics Explained~~

~~Pump curve HVACR~~

Natural Ventilation

and Human

Comfort (Chapter

3) ~~High~~

~~Performance~~

~~Building:~~

~~Performance by~~

~~Design~~

Jet Wash Canvas

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~~Tent Roof and walls~~

~~design by climatic
zone (mass,
insulation, solar
protection)~~

~~(Claudio Del Pero)~~

~~Thermoelectric
effect - ANSYS Bio:~~

~~The Bio Climatic
Chart Determining
Comfort Zone~~

~~[Construction Video
8 of 11] CIBSE~~

~~Natural Ventilation~~

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Thermal

Group Webinar -

Understanding
Performance Tests

Ductwork sizing,
calculation and
design for

efficiency - HVAC

Basics + full

worked example

~~Presentation~~

~~Thermal Comfort~~

LECTURE 4 (PART

A): Comfort and

Health - Indoor

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Environmental Quality - Thermal

Comfort Hysept,
Winner CIBSE

Building and
Performance Award

2020 Thermal

Comfort Indoor
Climate and

Thermal Comfort
Assessment for

ASHRAE 55 with
CFD Building

Performance

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Analysis: a brief

book introduction
on May 31, 2018

Indices of thermal
comfort and sling
psychrometer

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Comfort Guide

The GLA also
directs readers
towards CIBSE

TM52 Limits of
Thermal Comfort:
Avoiding

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Overheating in

European

Buildings' as it

contains

"additional

guidance on the

limits of thermal

comfort." The GLA

title can be

accessed from

here. Contents: 1

Introduction 2

Comfort and

discomfort. 2.1 Our

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Thermal

thermal sense 2.2

How can we judge if a building is overheating?

CIBSE - Building Services

Knowledge

According to

CIBSE1, six factors directly affect

thermal comfort: a person's metabolic rate and clothing

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level, and the air temperature, mean radiant temperature, air speed, and humidity of the space. The perception of thermal comfort may vary greatly between individuals depending on personal and

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Environmental

factors. Covid-19
and homeworking

Maintaining
thermal comfort in
a changing climate
– CIBSE ...

Sections 1.3 and
1.4 of CIBSE Guide
A 2015. CIBSE's
TM52, The limits of
thermal comfort:
avoiding

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Thermal

Overheating in

European buildings.

CIBSE Knowledge

Series: KS16 How

to manage

overheating in

buildings – A

practical guide to

improving

summertime

comfort in

buildings. Short, A,

The Recovery of

Natural

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Environments in
Architecture: Air,
Comfort and
Climate, Routledge
2017. Usable
Buildings

Module 113:
Determining
thermal comfort in
... - CIBSE Journal
In the first instance
consider:
Relaxation of

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Thermal

formal office dress

to encourage

individual

adaptation to

conditions

Individual control

over the thermal

environment where

practicable, such

as by opening

windows, using

blinds or moving...

Flexible working so

people can work at

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more comfortable
times ...

CIBSE - Building
Services
Knowledge
Fast and accurate
CIBSE TM52
thermal comfort
analysis at a
competitive price.
Comprehensive
advice and support
to ensure you

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arrive at the most economic and feasible solution to achieve compliance. CIBSE TM52 reports can be used to aid building design, gain credits under BREEAM, support Planning applications, and satisfy industry requirements: such

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as for education or
healthcare
buildings.

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Thermal Comfort
Analysis -
Energytest
Detailed guidance
on the
environmental
criteria for design
can be found in
CIBSE Guide A,

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Chapter 1(1). This publication provides an introduction to the subject of comfort: Sections 2-4 explain the basic principles governing thermal, visual and acoustic comfort, covering key factors and the main design criteria.

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CIBSE - Building
Services
Knowledge

Overall, the study shows that the use of passive strategies can help attain adaptive thermal comfort in central London office buildings. While the temperatures

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achieved don't
reach the
established
optimum for
productivity of
occupants, the
results suggest a
different approach
to thermal comfort
and productivity
might be necessary
for free-running
buildings.

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In control – thermal

comfort and
productivity –
CIBSE Journal

For thermal wheels
(or rotary heat
exchangers), CIBSE
says there may be
a risk of air leakage
and moisture
transfer between
supply and exhaust
air streams. A
higher pressure on

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the extract side of the thermal wheel can cause air leakage to the supply flow, particularly in poor installations, so CIBSE recommends that the thermal wheel be bypassed.

CIBSE's guidance on ventilation

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during Covid-19 –
CIBSE ...

edition of CIBSE
Guide A:

Environmental
Design. It is the
premier UK
technical reference
source for
designers and
installers of ... □

Comfort □ Thermal
environment,
defining variables

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and looking at the
6 basic variables □
Models of thermal
comfort – adaptive
and PMV. How they
are derived,

Guide A:
Environmental
Design - CIBSE
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offer
comprehensive
technical guidance

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on key areas of building services engineering. The current set of Guides is listed below (click the titles for full details). The Guides can be freely downloaded by CIBSE members or ordered as a hard copy. PDF or hard copy versions

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Comfort Guide

can also be purchased by non-members.

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Guides

CIBSE Guide 2015

aims to define the main criteria for design in terms of comfort and health, and to set out appropriate internal and

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external design conditions. Under the chairmanship of Derrick Braham, Guide A describes a logical process for engineers to deliver comfortable, productive, and low environmental impact buildings, while considering the consequences

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Guide A – CIBSE's essential guide to environmental design ...

The comfort zone represents the combination of conditions with the same DBT and MRT for which the PMV is between -0.5 and +0.5, according to

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the standard. **Comfort Guide**

Limits of

Applicability: This standard is only applicable to healthy individuals.

This standard does not apply to occupants: a) whose clothing insulation exceed 1.5 clo; b) whose clothing is highly impermeable; or c)

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who are sleeping,
reclining in contact
with bedding, or
able to adjust
blankets or
bedding.

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Comfort Tool for
ASHRAE-55
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Comfort Guide |

azrmusic.net

The TM52 Adaptive Comfort analysis tool for the Virtual Environment is capable of assessing overheating of buildings based on the criteria outlined in CIBSE Technical Memorandum (TM) 52 – 2013. Analysis

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of the occupied spaces in a building model can be assessed in VistaPro using the additional weather and room variables or via the report.

CIBSE TM52:
Comfort Analysis
CIBSE Guide A
(table 1.5) includes
recommended

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Summer and winter
comfort criteria
(temperature
ranges) for a
number of specific
building
applications and
this can be used to
determine and
report the
percentage time
out of range (ToR)
metric (criterion 5).
CN2 Appropriate

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industry standards
and criteria for
schools See
criterion 2

Hea 03 Thermal
comfort - BREEAM
There are three
criteria (from CIBSE
TM52) which are
used to define the
level of
overheating in
naturally ventilated

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Comfort Guide
Spaces: The first criterion sets a limit for the number of hours that the operative temperature can exceed the threshold comfort temperature (upper limit of the range of comfort temperature) by 1K or more during occupied hours of a

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Comfort Guide

typical non-heating season (1
May- 30
September)

TM52 Assessment |
Overheating and
Thermal Comfort
Cibse Guide
Thermal Indices
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indices.pdf

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study guide

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the Page 4/9.

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CIBSE advocates

passive design

using the fabric

and characteristics

of the building to

interact with the

external

environment to

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Enhance Comfort Guide

occupants' internal thermal comfort conditions. This minimises, or may even eliminate, the use of mechanical systems, further improving building performance even in dense urban environments with observed UHI.

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