

Duco Ventilation & Sun Control NV



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CPD Overview



Available CPD Material (6)



Harnessing the Sun: Solar Shading

This CPD will explore the importance of effective solar shading and the benefits it can bring to buildings and their occupants. It will first outline Le Corbusier's philosophy on sunlight in architectural design. Then, to provide arguments for the use of solar shading within a holistic daylight and ventilation strategy, it will explore the effect of daylight on human biology, wellbeing and performance. The CPD will then study essential solar shading considerations, such as building regulations, crucial design concerns, key daylight and ventilation strategies, and important aesthetics and maintenance insights, and investigate significant case studies. By the end of the presentation you should have a greater understanding of:

- The varying design and specification considerations associated with solar shading and ventilation
- The impact of daylight and ventilation on buildings and their occupants
- The effect of daylight on human biology, wellbeing and performance
- How we can mitigate the negative impacts of daylight in modern buildings
- How to create a healthy balance between air quality, indoor climate and visual conditions, whilst aiming to provide comfortable indoor temperatures and satisfactory daylight levels
- Why you should choose external solar shading over internal shading
- The importance of a well-thought-out combination of basic ventilation, intensive ventilation and external solar shading provide an optimum indoor environment

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness



Filtering Out the Noise: Acoustic Ventilation

This CPD will explore the importance of effective acoustic ventilation solutions and the benefits they bring to buildings and their occupants. It will discuss what sound is, the impacts of noise pollution on building occupants in various sectors and how noise pollution is making us sick, the causes of poor acoustics and noise pollution in buildings, and how trickle vents and louvres work to mitigate acoustic ventilation challenges. It will also draw on several case studies. By the end of the presentation you should have a greater understanding of:

- Architectural acoustics
- How acoustic ventilation works and how it can be used to reduce sound
- Why modern buildings need effective acoustic solutions
- The impact of noise on buildings and their occupants, as well as the associated building regulations
- Arguments for the use of attenuated natural ventilation as part of a holistic ventilation strategy
- The challenges of achieving adequate acoustics in modern buildings and how to provide practical solutions
- Other factors to consider when specifying louvres

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**
Health, safety and wellbeing

Knowledge level: General Awareness



Go with the Flow: Effective Ventilation

This CPD will explore the importance of effective ventilation solutions and the benefits they bring to buildings and their occupants. It will question what natural ventilation is and why we should use it whilst covering other topics including the function of ventilation systems and how they help air through a building, overcoming ventilation challenges, issues of letting fresh air into buildings and how to keep the elements out, and ensuring louvres deliver effective ventilation. By the end of the CPD you should have a greater understanding of:

- Why you should use natural ventilation within a holistic strategy
- The impact of ventilation on buildings and their occupants, as well as the associated building regulations
- How to allow air flow freely while protecting against the elements
- How to balance both energy efficiency and health
- Other factors to consider when specifying louvres

This CPD can be delivered to you live and remotely

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness

NLU - Natural Comfort Inside



This seminar provides an introduction to some of the developments and applications in solar shading, key challenges that face architects, the importance of sun control and its role in increasing energy performance and endeavour to clear any misunderstandings about its applications, by providing a greater idea of how, when and where sun control can be used. Duco will cover different types of solutions available and their uses and look at the design capabilities that these systems can provide.

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness

NLU - The Importance of Combining Solar Shading and natural Ventilation Strategies in Today's Modern Buildings



The importance of including natural ventilation and solar control in today's modern buildings.

- To explain the terminology used in natural ventilation and solar control.
- To explain the various methods of ventilation provision.
- To explain the various methods of solar control.
- How a combination of natural ventilation and solar control offers the best solution.

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness



NLU - Key Issues for Effective Ventilation

This seminar covers the principle points for the specification of general and high volume ventilation: It will help you to understand the following topics:

- General principles for background and high volume ventilation
- How to let air in including aerodynamic qualities and performance of louvres
- How to keep things out including weather, vermin, insects and intruders
- The relevant regulations and tests that apply
- Installation for smaller louvres and louvre walls and integration of ventilation with solar control

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness

Classifications

Subject/Product Areas (CI/SfB)

Structure

External walls > Advisory organisations

Windows > Window awnings, shutters, louvres

Windows: parts, accessories > Window ventilators, condensation control & glazing channels

Services

Controls for services, energy recovery > Energy recovery devices

Air conditioning, ventilation > Ventilation systems and ventilators

Engineering

Ventilation and air conditioning > Ventilation systems

Ventilation and air conditioning > Air terminal devices

RIBA Core Curriculum areas

Design, construction and technology

Knowledge level: *General Awareness*

Health, safety and wellbeing

Knowledge level: *General Awareness*