

CPD accredited/endorsed by:



CPD: Windows & Doors for Passivhaus - Advanced

CPD Learning Objectives

- Passivhaus model (How the model has evolved since early 1960s)
- Main Passivhaus criteria relating to performance of windows (space heading demand, airtightness)
- Present situation in UK (stock of old building new building regulations)
- Heat loss from windows Understanding the Uw. Discussing about the difference between Uw and Psi opaque as quality criteria for high performing windows.
- Main advantages of investing in a Passivhaus building/embracing Passivhaus design principles
- Thermal comfort temperature asymmetry & temperature stratification).
- How thermal comfort requirement affects the Uw value on Passivhaus windows.
- Surface Temperature factors. Hygiene criterion for windows. Risk indicator of mould growth. Another quality criterion for high quality windows.
- Main pillars of a Passivhaus
- Passivhaus suitable installation examples minimising the installation thermal bridge heat losses /airtight installation
- How to avoid overheating (e.g. shading, night purge ventilation)
- Recommended Uw values for Passivhaus windows
- Installation/Glazing edge thermal bridge effect
- Internorm Passivhaus window systems and award-winning projects
- Modern minimal glazing systems development
- Practical UK examples and data on the performance of the installed windows using different building typologies and Internorm window systems.
- Data on the impact of the installed windows on the heating demand and resulting running costs optimal position of
 installed windows, avoiding unnecessarily high thermal bridge heat loss, low surface temperatures, and potential
 mould growth.

CPD Development Outcomes

- Provide an in-depth presentation of qualitative parameters affecting the performance of windows suitable for Passivhaus projects.
- Emphasise how windows affect the energy balance, thermal comfort (winter scenario) and overheating (summer scenario). This is an advanced, in-depth presentation please allow for approx. 2 hours.

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