

A Proctor Group Ltd



The Haugh, Blairgowrie, PH10 7ER
www.proctorgroup.com
Tel: +44 (0)1250 872261, Fax: +44 (0)1250 872727
reception@proctorgroup.com



CPD Overview



Available CPD Material (14)

**Air Leakage & Fire Performance In Facade Systems (Revision 2)**

An overview of UK and Irish building regulation relating to the compliance of construction membranes with respect to air leakage and reaction to fire. Also covers adjacent issues of moisture control and hygrothermal assessment, and the implications of air leakage strategies on both energy efficiency and "as designed" vs "as built" performance.

This CPD will cover:

1. Heat, Air and Moisture movement in building and relevant building regulations.
2. Hygrothermal Assessments, Dynamic vs Steady State methods.
3. Mechanisms and effects of air leakage on building envelopes.
4. Performance and location of membranes as air barriers in facade applications.
5. Reaction to fire testing and BR135.

By the end of this CPD seminar delegates should have:

1. An understanding of design considerations relating to hygrothermal and energy performance.
2. A recognition of relevant legislation and guidance.
3. An understanding of air leakage drivers and mitigation through membrane usage.
4. An awareness of fire test methods and classifications.
5. An appreciation of the relationships between hygrothermal and fire performance criteria and their implications.

Material type:	Seminar
RIBA Core Curriculum:	Legal, regulatory and statutory compliance
Knowledge level:	General Awareness



Multiple formats

Passive House and Low Energy Housing Design

This CPD gives an overview of the Passive House design principles, the benefits they provide in terms of energy performance, and the means by which these benefits are achieved. It also introduces some common fabric first systems and solutions to simplify the process of optimising low energy design using the passive principles. By the end of the CPD you should have a greater understanding of:

- Understanding of the principles of passive design
- Knowledge of fabric insulation properties and good design practice
- Familiarity with air leakage testing and mitigation
- Appreciation of the effects of membrane properties on design
- Introduction to heat recovery systems

Material type:	Online Learning, Seminar
RIBA Core Curriculum:	Design, construction and technology Sustainable architecture
Knowledge level:	General Awareness



Multiple formats

Building Refurbishment: Systems for Retrofit and Conservation

This CPD gives an overview of the the factors to consider in refurbishment and conservation projects, including the basics of building physics as related to hygrothermal design. It also provides on overview of the standards, regulations and frameworks involved in designing for retrofit and conservation. By the end of the CPD you should have a greater understanding of:

- The retrofit and conservation considerations
- Knowledge of hygrothermal material properties and good design practice
- Introduction to hygrothermal assessment standards
- Introduction to PAS 2035 design framework
- Reducing condensation risks in pitched roof refurbishment

Material type: Online Learning, Seminar

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

Knowledge level: General Awareness



Multiple formats

(Temp Susp) Physics and Applications of Construction Membranes

This CPD gives an overview of the the factors to consider when specifying construction membranes, particularly in projects utilising "Modern Method of Construction" such as advanced timber frame and panelised (CLT or SIP) construction types. It also introduces the adjacent building physics that are influenced by membrane specification and design choices. By the end of the CPD you should have a greater understanding of:

- Understanding of the design considerations affecting construction membranes
- Knowledge of the various types of construction membrane and their respective uses
- Introduction to building physics affected by construction membranes
- Knowledge of commonly used "modern methods of construction", timber frame, CLT and SIP
- Introduction to BS 5250 hygrothermal strategies

Material type: Online Learning, Seminar

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

Knowledge level: General Awareness



Multiple formats

NLU - Pitched Roof Design Considerations: Energy, Moisture & Air Permeability

This CPD gives an overview of pitched roof design considerations and regulations in the UK and Ireland, along with discussing the type of construction membranes used as pitched roof underlays and the effect their performance has on design. It also discussed the implications of hygrothermal focussed roof design on the overall building energy performance.

Material type: Online Learning, Seminar

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

Knowledge level: General Awareness



Multiple formats

Pitched Roof Design Considerations: Energy Moisture & Air Permeability (approved but awaiting go ahead from provider)

This CPD gives an overview of pitched roof design considerations and regulations in the UK and Ireland, along with discussing the type of construction membranes used as pitched roof underlays and the effect their performance has on design. It also discusses the implications of hygrothermal focused roof design on the overall building energy performance.

By the end of the CPD you should have a greater understanding of:

- Roof types outlined in BS5250:2021 Code of Practice.
- Different roof types and associated hygrothermal strategies.
- Pitched roof underlay types.
- The effects of membrane properties on design requirements.
- Factors affecting pitched roof moisture control.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**
Legal, regulatory and statutory compliance

Knowledge level: General Awareness

**NLU - Building on Contaminated Land**

This seminar will provide you with an understanding of:

- Contaminated Land and associated gases and risks
- Changes to Part C of The Building Regulations
- A review of Ciria Document "Assessing Risks Posed by Hazardous Ground Gases for Buildings"
- The value of getting the site investigation report right
- Selecting the correct gas protection system for each development
- Primary and Secondary Protection Systems

Material type: Online Learning

**NLU - Energy Performance of Buildings**

This seminar reviews types, and benefits of thermal insulation. It explains current regulations for new build and refurbishment; reviews the energy performance schemes and funding under the decent homes standard. It focuses on the key features of air tightness and low carbon emission, and how improvements can be made on insulation of buildings. It looks at case studies of solutions for refurbishment.

Material type: Seminar



NLU - Metal Roofing Systems

This seminar outlines the sustainability and other benefits of using metal tiles and metal roofing systems in roofing applications. It discusses flat to pitch roof systems and the benefits over conventional forms of construction for new build and refurbishment projects. It outlines the problems associated with flat roofs and their solutions.

Material type:

Seminar



NLU - Protecting Structures from Ingress of Gas

This seminar aims to give a general overview of the mechanics involved in protecting structures and not intended to provide the panacea for all gas contamination problems.

Material type:

Seminar



NLU - Sound Passage through a Building

This seminar provides a basic outline of sound transmission and how it can pass through building structures.

Material type:

Seminar



NLU - The Prevention of Condensation in the Roof Space

This seminar examines the principles and effects of condensation, issues of detailing, insulated pitched roofs, insulation installation, ventilation and underlay, and looks at condensation controlling measures in pitched roofs, with solutions provided.

Material type:

Seminar



NLU - Timber Cladding Systems

This seminar outlines the benefits of using timber cladding for external wall construction. It points out the design issues and the problems associated with the use of timber cladding. The CPD discusses the performance and appearance of timber used in external cladding and the importance of application and specification of the right material for the design exposure and orientation of the building.

Material type:

Seminar



Multiple formats

NLU - Air Leakage and Fire Performance in Façade Systems

This CPD aims to provide an overview of UK and Irish building regulation relating to the compliance of construction membranes, with respect to air leakage and reaction to fire. It will cover adjacent issues of moisture control and hygrothermal assessment, and the implications of air leakage strategies on both energy efficiency and "as designed" vs "as built" performance. By the end of the presentation you should have a greater understanding of:

- Heat, Air and Moisture movement in building and relevant building regulations
- Hygrothermal Assessments, Dynamic vs Steady State methods
- Mechanisms and effects of air leakage on building envelopes
- Performance and location of membranes as air barriers in facade applications
- Fire test methods, classifications and BR135
- The relationships between hygrothermal and fire performance criteria and their implications

This CPD can be delivered to you live and remotely.

Material type:

Online Learning, Seminar

RIBA Core Curriculum:

Design, construction and technology
Legal, regulatory and statutory compliance

Knowledge level:

General Awareness

Classifications

Subject/Product Areas (CI/SfB)

Substructure

Floor beds, ground floors, basements > Proofing services

Structure

Floors, including beams > Floor insulation

Finishes

Wall finishes: internal > Composite wall lining systems

Wall finishes: external > Weatherboards, shiplap cladding

General products

Rigid sheets, boards > Building boards

Flexible proofing/separating sheet membranes > Foils, building papers, sheet dp membranes

Paints, varnishes, protective treatments etc. > Wood preservation

RIBA Core Curriculum areas

Legal, regulatory and statutory compliance

Knowledge level: *General Awareness*

Design, construction and technology

Knowledge level: *General Awareness*

Sustainable architecture

Knowledge level: *General Awareness*