

Technical CPD Seminars

Imparting flat roof knowledge at your office

A central graphic with a grey-to-white gradient background. It features various icons: a computer monitor with three person icons, a speech bubble, three checkmarks next to horizontal lines, a hand holding a glowing lightbulb, a group of three people walking up an upward-trending arrow, a gear inside a head profile, several interlocking gears, and a glowing lightbulb with a gear inside. Dotted lines connect some of these elements. The text 'PROFESSIONAL DEVELOPMENT' is written in large, bold, black capital letters across the middle of the graphic.

PROFESSIONAL DEVELOPMENT

TECHNICAL CPD PRESENTATIONS

Bespoke content tailored to meet your needs delivered either in your office or digitally via Microsoft Teams

Our bespoke CPD presentations are created to address your specific roofing requirements and can be tailored towards a project you are currently working on .

Our presentations last approximately 45 minutes, and take place over the lunchtime period in your offices, with plenty of time for questions afterwards. This keeps disruption to a minimum and we provide lunch.

Your chosen topic will be delivered by your Bauder Technical Manager who will be on hand to work with anyone requiring project specific support or advice.

In addition to full topics we also have a selection of specialist modules that can be switched into your presentation where desired, just let us know which ones interest you when you book your CPD.

BOOK NOW : Jonathan Huggins
CPD Co-ordinator
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Visit our website: bauder.co.uk/cpd

NEW BUILD CONSTRUCTION CORE TOPICS

(see pages 3-5)

- **Designing flat roofs for modern construction:** Meeting the objectives for new buildings.
- **Lightweight solutions for flat roofs:** A guide to single ply waterproofing systems and upgrading with green roofs and solar PV.
- **Creating green roofs:** Meeting objectives for the environment, sustainability and building use.
- **Designing a blue roof:** Considerations for a roof top sustainable urban drainage system (SUDS) in flood sensitive areas.
- **Rooftop renewable energy:** Investigating the options for a PV array and how coupling it with a green roof delivers twofold.

ROOF REFURBISHMENT CORE TOPICS

(see pages 6-7)

- **Designing refurbishment flat roofs:** Insight for surveyors and property managers on the suitable waterproofing options, creating effective falls and resolving challenging details.
- **Upgrading a current flat roof:** Investigating the options available for improving thermal performance, retrofitting a green roof or adding a PV array (or all three) during roof renewals.



BOOK NOW: Jonathan Huggins, CPD Co-ordinator

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NEW BUILD CONSTRUCTION TOPICS

Supporting designers in creating successful flat roofs

Designing flat roofs for modern construction:

Meeting the objectives for new buildings with the correct selection of waterproofing.



Lightweight solutions for flat roofs: Single ply waterproofing, and upgrading with a green roof and solar PV.



Different waterproofing options are available for new build construction and each can be specified according to requirements.

This seminar investigates the individual benefits of the different flat roof waterproofing systems available in today's market, maximising insulation to suit the needs of the building, and the design considerations for a successful project.

The presentation will touch on the latest legislation as well as looking at designing details robustly to avoid 'issue magnets', ensuring installation quality, and the value of different guarantees.

This is a versatile presentation that easily allows modules to be included for a truly bespoke seminar.

On completion

You will be able to understand where each type of waterproofing is most effective and how to specify flat roof solutions that provide a balance of performance, aesthetics, and cost.

Single ply waterproofing is a popular lightweight solution that can also support upgrades to the roof with renewable energy and green roofs.

This seminar explores the individual merits of single ply as a lightweight waterproofing system, the aesthetic finishes that can be created, including profiles and a vegetated green roof. This waterproofing type can incorporate a range of insulations to meet the design needs of the building.

The presentation covers the correct choice of single ply (PVC or FPO) and a comparison of their advantages, which air and vapour control layer is optimal, and which fixing method is best suited for the different deck types or construction essentials.

On completion

You will be able to understand where each type of single ply membrane is most suitable, the parameters and the design considerations necessary for correct specification and detailing.

NEW BUILD CONSTRUCTION TOPICS

Supporting designers in creating successful flat roofs

Creating green roofs: Meeting building design objectives for the environment, sustainability, building use and planning.



The drivers for a green roof can be multifaceted so designing to meet the expectations of the project, the location, and deliver the desired visual finish and ongoing success is critical.

This seminar investigates the motives for including a green roof on a building, and how biodiversity net gain for new developments will impact green roofs in the UK. The content also covers how to create a green roof that meets its purpose, the finishes possible, the different considerations to sustain the vegetation through good component selection and ongoing maintenance.

On completion

You will understand where each type of green roof is most suitable, its potential, capabilities, constraints and the fundamental principles that apply to the design of a green roof.

Designing a blue roof: Considerations for a rooftop sustainable urban drainage system (SUDS) in flood sensitive areas.



A BauderBLUE roof is a solution for urban areas where options for ground-based attenuation systems are limited and where construction is being carried out within flood sensitive areas.

This presentation examines the key aspects to meet the planning conditions for limiting water egress from a site, the current legislation and British Standards and codes of practice. The practical elements cover the design of a blue roof, the drainage mechanism, construction of the roof deck, suitable waterproofing, outlets, components, detailing, and the options for the final visual finish.

On completion

You will understand how a rooftop SUDS delivers water attenuation over a 24hr period to manage stormwater and how to design a successful blue roof.

NEW BUILD CONSTRUCTION TOPICS

Supporting designers in creating successful flat roofs

Rooftop renewable energy: Investigating the options for a PV array and how coupling it with a green roof delivers twofold.



Designers considering the inclusion of a PV array on new build flat roof construction projects can focus on more than energy efficiencies and outputs.

This presentation outlines the key elements to be mindful of to ensure the rooftop array is installed with methods that protect the building and its waterproofing. How to create a sustainable design that maximises the usable non-shaded roof space, and meets lifespan expectations.

Specifying an integrated solution by combining with a green or blue roof further enhances the benefits, and these are also covered in the presentation.

On completion

You will understand how to design and specify the right PV solution for the desired outcomes, all the relevant considerations including waterproofing selection, installation methods and layout for the array .

SPECIALIST MODULES: New build projects

Enriching your CPD with topics to specifically meet your requirements. Just tell us which ones interest you when you make your booking.

BS 6229:2018

The key changes to the standards affecting the design and installation of flat roofs and in particular Section 4 of the update.

Fire Safety Approved Document B

The new classification classes and different testing methods across Europe and the impact on insulation. Critically it reviews the definition of a 'specified attachment' and how the document relates.

Creating Roof Falls

Building standards and considerations for designing a lightweight and cost effective method of providing falls to a roof instead of incorporating them into the structure, whilst providing thermal insulation.

Biodiversity Net Gain (BNG) & Urban Greening Factor (UGF)

Understanding what BNG and UGF are and how they affect new developments and green roofs across the UK.

Establishment and Maintenance of Green Roofs

The success of a green roof relies on more than just the installation, it continues beyond with steps required for the vegetation to flourish and be maintained.

ROOF REFURBISHMENT TOPICS

Replacement flat roofs and meeting specific challenges

Refurbishment flat roofs: Insight for surveyors and property managers on waterproofing, creating falls and solving challenging details.



Upgrading a current flat roof: Retrofitting green roofs and PV arrays during roof renewal works on a building.



There are different options available for refurbishing flat roofs; removing the failing system and replacing it, overlaying the existing roof or a combination of both, depending on levels of damage.

This presentation takes you through the latest updates to standards and legislation, looks at the options available for upgrading the insulation, improving falls on the roof, selecting the right waterproofing for the project and designing robust details. It also touches on the considerations to the current interfaces of the roof and how to resolve the challenges.

On completion

You will be able to understand how to specify the right solution for a current building experiencing end of life challenges or water ingress.

Upgrading a roof with a PV array or a green roof whilst refurbishment works are being carried out is ideal. This often under used space can support the environment, generate electricity or add both.

This seminar investigates the considerations for successful planning and design of green roof or PV array on a retrofit or refurbishment project. It covers the drivers for upgrading a roof, weight loading considerations, lightweight solutions for waterproofing, green roof system and photovoltaics, along with best design for installation methods and detailing.

On completion

You will be able to understand how upgrading a flat roof is possible, the options available and how to consider specifying the right solution.

ROOF REFURBISHMENT TOPICS

Replacement flat roofs and meeting specific challenges

SPECIALIST MODULES: Renovation projects

Enhancing your CPD with topics to specifically meet your individual requirements.

BS 6229:2018

The key changes to the standards affecting the design and installation of flat roofs and in particular Section 4 of the update.

Fire Safety Approved Document B

The new classification classes and different testing methods across Europe and the impact on insulation. Critically it reviews the definition of a 'specified attachment' and how the document relates.

Standing Water

Clarification for what standing water is, the impact on the roof, and why it should be avoided.

Creating Roof Falls

Building standards and considerations for incorporating tapered insulation for improving falls and drainage on refurbishment projects whilst also enhancing thermal performance.

Moisture Mapping and Roof Surveys

Understanding these diagnostic techniques to identify levels and locations of entrapped water in a failing roof so that a detailed scope of works can be produced.

Establishment and Maintenance of Green Roofs

The success of a green roof relies on maintenance for the vegetation to flourish and continue to be a success.



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