

RIBA Passivhaus Webinar Series



Are you interested in enhancing your Passivhaus design knowledge? Do you need some training to give you the confidence in your skills? The RIBA is delighted to offer a six-part webinar series on Passivhaus, helping you design for the future.

RIBA Passivhaus Webinar Series 2019

Passivhaus has become the go-to low energy standard. Professional magazines and even politicians heavily promote the standard to tackle the climate crisis and fuel poverty. However, the actual uptake has been slow, and still, 10 years after the first successful UK Passivhaus project was delivered, only about 1% of annual new build projects are being delivered to Passivhaus standard. Is Passivhaus only a costly luxury, and in time of a housing crisis can/should we afford it? Is the slow uptake due to a shortage

of skilled contractors, or is it simply too restrictive and compromising when it comes to architectural design, buildability and usability?

The RIBA Passivhaus Webinar Series will share an architect's learning from having been involved exclusively with Passivhaus in the UK from the beginning, 10 years ago, and on all scales – private domestic, education, commercial, leisure and care facilities.



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Course content and structure

In 2019, the Passivhaus Webinar Series is delivered over six days, with intervening gaps, allowing you time to reflect, revise and review. You can attend all six modules in the series, or you can attend relevant modules only, if you need to refresh your understanding.

Passivhaus design is straightforward and everyone can design and construct a Passivhaus – the technologies, materials and training for designers and trades are readily available. The actual challenge comes down to costs and financial viability. A common misconception is that the on-cost for Passivhaus is due to high performance components or a lack of experienced UK contractors, when the main issues are a misunderstanding of the requirements, late adoption, failure to integrate into the design process and underestimating differences and opportunities in local climate and construction. Even experienced designers often tend to ‘design by accident’ and over-engineer their solutions to fix ‘what went wrong’ or ‘could go wrong’ rather than truly value engineering their solutions.

Module 1: ‘Passivhaus principles’ and ‘Passivhaus certified’ - what’s the difference? (1hr)

Module one will cover the following topics:

- The basics behind the Passivhaus standard
- Examples of completed and monitored projects
- Typical detailing and construction methods
- How the different climate zones in the UK affect the design strategy

Module 2: The biggest hurdle - understanding the costs of Passivhaus (1hr)

What are the additional costs of Passivhaus and why? Using data from Build UK Passivhaus projects, module two will look at:

- Where the typical on-costs are
- How the costs developed over the last decade
- Why there is an uplift
- How solutions can be engineered from the early stages to provide value for money

Module 3: How to integrate Passivhaus into the RIBA Plan of Work (1hr)

Module three will illustrate:

- How the Passivhaus design methodology can be integrated into the architect’s workstream
- The key stages and milestones required to meet the standard
- What additional information will be required
- The risk for everyone involved and how to mitigate this

Module 4: Procurement, tender, form of contract and on-site delivery (1hr)

Focussing on the different procurement routes and contracts typically used in the UK, module four will cover:

- Key construction challenges and how to tackle them with the right procurement and tender strategy
- How the procurement routes and contracts can be applied to Passivhaus projects
- Risks and pitfalls

Module 5: Non-energy benefits - health and wellbeing (1hr)

Passivhaus is more than just a low energy approach and can provide added benefits for the residents if designed right. Module five will focus on the health benefits, risks and potential pitfalls of Passivhaus and cover the following:

- How Passivhaus methodology can help provide healthier, more productive and more profitable environments for the clients
- What the risks are and where it can go wrong

Module 6: EnerPHit - the Passivhaus refurb standard (1hr)

Surrounding Passivhaus retrofit, module six will cover:

- What the challenges are
- How to develop a cost-effective deep energy refurb strategy
- How the Passivhaus methodology can be used to inform other low-energy approaches

Speaker

Tomas Gaertner, SE3D

Tomas is a qualified architect and a director of SE3D, an RIBA Chartered, design led practice specialising in human centered design. In 2010, he became one of the first certified Passivhaus designers in the UK when he helped develop the UK’s first multi-residential certified Passivhaus. He has since been involved as an architect and Passivhaus designer with the delivery of more than 200 Passivhaus dwellings, offices and schools and led on the Passivhaus design for the UK’s first Passivhaus public pool and leisure centre for Exeter City Council. In 2018, Tomas helped deliver the very successful RIBA Core CPD seminar *Pick and Mix: the best of Passivhaus*. He is also a certified building biologist and oversees the IBNs UK seminar programme on healthy building. He is a regular speaker at Green Register events, the UK Passivhaus conference and Eco-build.

**General awareness CPD: enough to keep you generally up to date and competent.*

**Detailed knowledge CPD: gives you a higher level of expertise than a general awareness CPD. This CPD is about practical applied knowledge of the subject area achieved through learning and experience, and consequentially being able to advise others of the implications.*

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Two ways to book your webinars

1. CPD Club Ticket: One single booking for all six modules
The CPD Club ticket provides a great value structured approach to attending in the comfort of your own practice/home. Club ticket benefits include:

- One place at each of the six webinars
- Purchase all six webinars for the price of five
- 6 hours of RIBA-Accredited Detailed knowledge CPD*

Webinar fee

CPD Club Ticket

One single booking for all six modules

RIBA/CIAT members £150+VAT

Non-members £300+VAT

2. Pay-as-you-go (PAYG): Purchase webinars individually
The PAYG ticket provides you with the flexibility to attend relevant modules in the series. PAYG ticket benefits include:

- A place at one of the six webinars
- Digital copy of all course materials
- Up to 1 hours of RIBA-Accredited General awareness CPD*

Pay-As-You-Go

Purchase modules 1 to 6 individually

RIBA/CIAT members £30+VAT

Non-members £60+VAT

Dates, locations and booking information

Numbers are strictly limited and will be allocated on a first book and pay basis. Please book your place using the links below.

All webinars run from **12:30pm – 1:30pm**

Date	Module	Eventbrite booking links
10 Oct	Module 1: 'Passivhaus principles' and 'Passivhaus certified' - what's the difference?	https://passivhaus-module-1.eventbrite.co.uk
17 Oct	Module 2: The biggest hurdle - understanding the costs of Passivhaus	https://passivhaus-module-2.eventbrite.co.uk
7 Nov	Module 3: How to integrate Passivhaus into the RIBA Plan of Work	https://passivhaus-module-3.eventbrite.co.uk
14 Nov	Module 4: Procurement, tender, form of contract and on-site delivery	https://passivhaus-module-4.eventbrite.co.uk
21 Nov	Module 5: Non-energy benefits - health and wellbeing	https://passivhaus-module-5.eventbrite.co.uk
27 Nov	Module 6: EnerPHit - the Passivhaus refurb standard	https://passivhaus-module-6.eventbrite.co.uk

What you need to attend this webinar

- Laptop / Desktop: please note use of mobile/tablet is not advisable as some interactions are not compatible with these devices. You do not need access to a webcam to join this webinar
- Headphone: if you are joining this webinar from your office / crowded location, please ensure you have a working headphone with you
- Confirmation email: after the booking has been made, you will be sent a link to join this webinar, including instructions on how to join. Please follow this link at least 10 minutes prior to event's start time. Confirmation email will be sent 7 days prior to the event start date
- You will not require a Skype account but the RIBA webinar series are delivered via Skype for Business. If you are a Mac user, you may need to download the Skype for Business App. However, there is no requirement for you to create an account.

For alternative booking methods please contact the CPD Programme team on digital.cpd@riba.org or call 0207 307 3848. For this event's **Terms and Conditions** please visit the Eventbrite booking links listed above.